

# Nexus CGI

## Interface Description

**Prepared for:** FLIR Networked Systems

**Prepared by:** FLIR Networked Systems

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## 1 Scope

The purpose of this document is to describe the basic set of functions to control a FLIR sensor using Nexus.CGI protocol.

The grammar for Nexus.CGI commands and the format of responses are specified in this document.

## 2 Introduction to Nexus.CGI Protocol

Nexus.CGI is a text-based protocol using a simple grammar to format commands going from a client to a camera sensor system, that may include different devices like IR/DLTV cameras, Pan & Tilt, GPS, Radar, etc...

Responses from the sensor to a client are formatted in Java Script Object Notation (JSON). The grammar for Nexus.CGI commands and the format of JSON responses are specified in this document.

Nexus.CGI provides commands for configuring and controlling the different devices, as well as requesting video information.

Different devices and camera models that speak Nexus.CGI may have different functions and support different commands, but the structure of all Nexus.CGI commands must fit the protocol defined herein.

FLIR sensors typically provide external RS232 connections for serial communications or RJ45 Ethernet connections for network communications. Nexus.CGI requests and responses are transported in raw text format with <carriage return> termination on serial connections and as payload in HTTP connections on network communications.

### 3 Protocol Specification and Syntax

A Nexus.CGI command has the following format:

```
?action=<action name>&session=<session id>&<name of parameter
1>=<value of parameter 1>&<name of parameter 2>=<value of parameter
2>...
```

<action name> is the name of the command to be performed by the sensor, and the number and type of the parameters will depend on each command.

<session id> is the identifier for the client session.

The answer is formatted in JSON (Java Script Object Notation), defining the following structure:

```
{
  <action name> :
    {
      "Return Code" : <code value> ,
      "Return String" : "<code string>",
      "<parameter name 1>" : "<parameter value 1>",
      "<parameter name 2>" : "<parameter value 2>",
      "<parameter name 3>" : "<parameter value 3>",
      .....
    }
}
```

The return value for the command includes both number code and string description. An example of possible return values are:

Return String	Return Code
No Error	0
Invalid Device Type	5
Invalid Device Id	6
Device Busy	11
Device Timeout	13
Parameter Out Of Range	14

A complete list of return codes will be defined in following sections of this document.

The output parameters are returned in a list of pairs "name/value". Of course, each command has specific output parameters, and some do not have any.

For specific use of the Nexus.CGI protocol in a TCP connection using HTTP, the whole request string would be as follows:

```
http://<ipaddress>:<port>/Nexus.cgi?action=<action name>
&session=<session id>&<name of parameter 1>=<value of parameter
1>&<name of parameter 2>=<value of parameter 2>...
```

This would be a sample for an example command:

```
http://192.168.250.35:8080/Nexus.cgi?action=IRFocusPercentageSet
&session=100&Focus=54.67
```

And the associated answer:

```
{ "IRFocusPercentageSet" :
  {
    "Return Code" : 0 ,
    "Return String" : "No Error"
  }
}
```

Here is an example including output parameters:

```
http://192.168.250.35:8080/Nexus.cgi?action=IRFocusPercentageGet
```

And the associated answer:

```
{ "IRFocusPercentageGet" :
  {
    "Return Code" : 0 ,
    "Return String" : "No Error",
    "Focus" : 54.67
  }
}
```

### 3.1 Sessions

The protocol is managed based on client sessions. Each client has to register, receive a session identifier and use that session Id for each command sent to the sensor.

The function to register is **SERVERWhoAmI**, and this is its description:

```
{
  "help SERVERWhoAmI":
  {
    "Return Code" : 0,
    "Return String" : "No Error",
    "Permission Needed" : "no",
    "Output Parameters" :
      {
        "Id" : {"Description" : "Id. of requesting client",
                 "Type" : "integer"},
        "Owner" : {"Description" : "Id. of Token owner",
                   "Type" : "integer"},
        "ip" : {"Description" : "IP Address of requesting client",
                 "Type" : "string"} }
  }
}
```

**“Id”** is the new session Identifier provided by the sensor for this client. This number will have to be included in all the messages from this client for all the multiclient management and features. Usually the session identifiers will start at 100.

**“Owner”** is the session Identifier of the client currently owning the token for the sensor. The client owning the token can call functions marked as “Permission Required”.

**“ip”** is the IP Address of the client detected by the sensor.

After the client is register, this session Id has to be used in all calls, like

<http://192.168.250.35:8080/Nexus.cgi?action=IRFocusPercentageSet&session=100&Focus=54.67>

### 3.2 Device Type

A FLIR camera sensor normally includes different types of devices. Some of the most common device types are:

Device Type	Return Code
Infrared camera	IR
Daylight TV camera	DLTV
Pan and Tilt	PT
Video Encoder	VIDEO
Georeference Module	GEO

The first characters of each command name mean the device type for which that function is intended (IRFieldOfViewSet, PTAzimuthElevationSet, DLTZoomDegreesSet, etc...)

### 3.3 Device Identifier

For some device types, it is possible to have several devices of the same type (for example, two IR cameras, or two video encoded streams).

In order to manage these cases, the Nexus.CGI protocol provides addressing for different device Ids.

An extra optional parameter can be always be added to the command sentence meaning the device Id to which the command is being addressed. The format must be as follows:

```
?action=<action name>&session=<session id>&DeviceID=<Device Id>&<name of parameter 1>=<value of parameter 1>&<name of parameter 2>=<value of parameter 2>...
```

If this parameter is not present in the command, a default value of Device Id = 0 will be applied.

### 3.4 Help

There are some special help actions that provide useful information for the user or developer. Instead of the keyname "action", "help" must be used.

A list of all the **Device Types** can be retrieved from the sensor using the action named "ListDeviceTypes"

```
http://192.168.250.35:8080/Nexus.cgi?help>ListDeviceTypes
```

And the associated answer:

```
{
  "help" : {
    "Return Code" : 0,
    "Return String" : "No Error",
    "DeviceTypes" : ["IR", "DLTV", "PT", "VIDEO",
                    "GEO", "GPS", "GYRO", "TRACK"]
  }
}
```

Also a **list of actions** for each device type can be requested for a specific device type, using help command "ListActions".

```
http://192.168.250.35:8080/Nexus.cgi?help>ListActions&DeviceType=IR
```

For **each action**, help information can be requested to the sensor. The information includes parameter names, types and descriptions.

`http://<ipaddress>:<port>/Nexus.cgi?help=<action name>`

Find here two examples:

```
http://<ipaddress>:<port>/Nexus.cgi?help=PTSpeedModeSet
{
    "help PTSpeedModeSet":
    {
        "Return Code" : 0,
        "Return String" : "No Error",
        "Permission Needed" : "yes",
        "Input Parameters" :
            {
                "Azimuth_Speed" : {"Description" : "Speed in azimuth axis", "Type" : "float"},
                "Elevation_Speed" : {"Description" : "Speed in elevation axis", "Type" : "float"}
            }
    }
}
```

`http://<ipaddress>:<port>/Nexus.cgi?help=IRFieldOfViewGet`

```
{ "help IRFieldOfViewDegreesGet":
    {
        "Return Code" : 0,
        "Return String" : "No Error",
        "Permission Needed" : "no",
        "Output Parameters" :
            {
                "FOV_Degrees" : {"Description" : "field of view in degress", "Type" : "float"}
            }
    }
}
```

## 4 Getting Started Controlling a FLIR sensor using Nexus.CGI

Some concepts have to be clear at this point to understand the system architecture.

A FLIR sensor is a network server unit controlling a set of devices, typically Pan & Tilt, Infrared camera, DLT camera, etc...

This is a multi-client architecture and several clients can connect to the same sensor to request information and data from it. A session Identifier is assigned by the sensor for each client. The sensor manages a token that allows only one client at a time to control and change parameters for the devices.

To start communicating with a sensor the client will need to know the IP Address and TCP port number.

### 4.1 Sensor Configuration

Make sure that the Web Interface module is configured and enabled in the Nexus server. This can be checked using the Web Configuration tool.

The Web Interface module must be configured to use Nexus.CGI protocol.

### 4.2 Session Management

#### \* SERVERWhoAmI

This function must be called by the client to start a session and returns the SessionId assigned for this client, its IP Address, and the SessionId of the client currently owning the token.

#### \* SERVERPing

This function can be used to check that the server is alive and running, and it also keeps this client session open.

#### \* Control Token Management

The following commands can be used to request and release the control token that gives permission to control the devices and modify parameters:

- SERVERRemoteControlRequest
- SERVERRemoteControlRequestAsync
- SERVERRemoteControlRelease

To use the functions that need permission, the client must be the owner of the control token. In other case, an error will be returned.

### 4.3 Retrieving Information about devices in the Sensor

#### \* SERVERDeviceConfigGet

This is the first function to be called when connecting to a sensor to request the information about the different devices in the system.

The output parameters describe for each device the following data:

- Device Type
- Device Id
- Driver Number
- Enabled

Find here a sample answer:

```
{ "SERVERDeviceConfigGet": { "Return Code" : 0,
                             "Return String" : "No Error",
                             [ { "DeviceType" : "PT",
                                  "DeviceId": 0,
                                  "DriverId": 6,
                                  "Enabled" : 1 },
                               { "DeviceType" : "DLTV",
                                  "DeviceId": 0,
                                  "DriverId": 15,
                                  "Enabled" : 1 },
                               { "DeviceType" : "IR",
                                  "DeviceId": 0,
                                  "DriverId": 7,
                                  "Enabled" : 0 } ] }
```

## 4.4 Retrieving Information about video encoders

If any VIDEO devices are reported by the FLIR sensor using the command SERVERDeviceConfigGet as described in section 4.1, there is a general command that provides all the information needed to read and display the video stream. It also provides data about what camera device is associated to each video.

### \* VIDEOStatusGet

This function returns the following parameter values for each video encoder device in the sensor:

- Associated Device Type
- Associated Device Id
- Number of Inputs
- Selected Input
- Width
- Height
- Codec Format
- MUX Format
- Transmission Type
- Destination Address
- Destination Port
- Bit Rate
- Interlaced

For example,

```
http://<ipaddress>:<port>/Nexus.cgi?action=VIDEOConfigurationGet &  
DeviceID=0
```

And the associated answer:

```
{ "VIDEOConfigurationGet" :  
    {  
        "Return Code" : "0" ,  
        "Return String" : "No Error",  
        "Associated Device Type" : "IR"  
        "Associated Device Id" : "0"  
        "Number of Inputs" : "1"  
        "Selected Input" : "0"  
        "Width" : "320"
```

```

        "Height" : "240"
        "Codec Format" : "6"
        "MUX Format" : "1"
        "Transmission Type" : "4"
        "Destination Address" : "rtsp://192.168.250.2/ir"
        "Destination Port" : "554"
        "Bit Rate" : "2000000"
        "Interlaced" : "0"
    }
}

```

## 4.5 Retrieving Information about the current status of devices

Usually the client may need updated information about the important parameters for each device. This can be done using the Status Get functions.

### \* Status Get functions

There is a special function for each device type to request the current values of the most important parameters. The name of the function is **XXStatusGet** with XX meaning the device type.

These functions can be called periodically by the clients to have a continuous status of the system. For example,

- DLTVStatusGet
- IRStatusGet
- PTStatusGet
- ...

Help is also provided for these functions, like

<http://<ipaddress>:<port>/Nexus.cgi?help=IRStatusGet>

```

{ "help IRStatusGet":
{
    "Return Code" : 0,
    "Return String" : "No Error",
    "Permission Needed" : "no",
    "Output Parameters" : {
        "DeviceType" : {"Description" : "Device Type", "Type" : "integer"},
        "DeviceId" : {"Description" : "Device Id", "Type" : "integer"},
        "Health" : {"Description" : "Health Status of Device", "Type" : "integer"},
        "BIT" : {"Description" : "Result of last BIT routine in this device", "Type" :
"integer"},
        "FOV" : {"Description" : "Value of FOV", "Type" : "float"},
        "FOV_Index" : {"Description" : "Index of FOV", "Type" : "integer"},
        "Focus_pctg" : {"Description" : "Focus percentage (0-100)", "Type" : "float"},
        "AGC" : {"Description" : "Value of AGC", "Type" : "integer"},
        "AGC_Low" : {"Description" : "AGC Low Limit value", "Type" : "float"},
}
}

```

```
"AGC_High" : {"Description" : "AGC High Limit value", "Type" : "float"},  
"Gain_pctg" : {"Description" : "Gain percentage", "Type" : "float"},  
"Level_pctg" : {"Description" : "Level percentage", "Type" : "float"},  
"Polarity" : {"Description" : "Polarity", "Type" : "integer"},  
"LUT_name" : {"Description" : "Name of LUT", "Type" : "string"},  
"NUC_index" : {"Description" : "Index of selected NUC table", "Type" :  
"integer"},  
"NUC_name" : {"Description" : "Name of selected NUC", "Type" : "string"},  
"Integration_time" : {"Description" : "Value of integration time", "Type" :  
"float"},  
"NUC_status_str" : {"Description" : "NUC status string", "Type" : "string"},  
"NUC_status_num" : {"Description" : "NUC status number", "Type" : "integer"},  
"X0" : {"Description" : "Not used", "Type" : "integer"},  
"Lens_atherm" : {"Description" : "Lens athermalization", "Type" : "integer"},  
"Cooler" : {"Description" : "Cooler/camera", "Type" : "integer"},  
"Electronic_zoom" : {"Description" : "Electronic zoom", "Type" : "integer"},  
"Freeze" : {"Description" : "Freeze", "Type" : "integer"},  
"OpMode" : {"Description" : "Operational Mode", "Type" : "integer"},  
"ActiveSource" : {"Description" : "Is source active? 0=no,1=yes", "Type" :  
"integer"},  
"Autofocus" : {"Description" : "Autofocus", "Type" : "integer"},  
"Frame_Size_X" : {"Description" : "Frame Size X", "Type" : "integer"},  
"Frame_Size_Y" : {"Description" : "Frame Size Y", "Type" : "integer"},  
"Range" : {"Description" : "Range of camera in meters", "Type" : "integer"},  
"Extender" : {"Description" : "Extender status", "Type" : "integer"},  
"Zoom_Pctg" : {"Description" : "Zoom Percentage", "Type" : "float"},  
"DDE_Mode" : {"Description" : "DDE Mode", "Type" : "integer"},  
"DDE_Gain_Pctg" : {"Description" : "DDE Gain Percentage", "Type" : "float"},  
"Lens_Cover" : {"Description" : "Lens cover status 0=OPEN 1=CLOSED", "Type" :  
"integer"},  
"THG_ItemsChangedTimestamp" : {"Description" : "Timestamp updated when THG  
Items change", "Type" : "string"},  
"Slave" : {"Description" : "Slave mode", "Type" : "integer"}  
}  
}  
}
```

## 5 Appendix A: List of Device Types

```
{ "help ListDeviceTypes":  
    {  
        "Return Code" : 0,  
        "Return String" : "No Error",  
        "Device Types" :  
            [ "SERVER", "PT", "VT", "DAC", "DLTV", "IR", "LENS", "OSD",  
            "GEO", "LEVEL", "GPS", "GYRO", "VIDEO", "TASS", "WIDEYE",  
            "FOVEUS", "TERMINAL", "UAV", "VISCA", "EM", "PELCO", "MSO", "LRF",  
            "DVR", "DVRCHANNEL", "VPU", "VPUCCHANNEL", "UAVMULTI", "IO",  
            "ALARM", "ALMGR", "RADAR", "TRACK", "RADAR_INTERFACE", "GNDS",  
            "QUICKSET", "INTERFACE", "PWRMGR", "TRANSPARENT MODE", "ONBOARD",  
            "PHAROS", "NEXUSPROXY", "MICROFLIRISH", "LIGHT", "VIDMUX",  
            "SYSTEM", "SERIALREMOTE", "WSGUI", "WSWALL", "WSMAP", "DVRDATA",  
            "THGSPOT", "THGAREA", "THGDIFF", "THGISO", "METEO", "THERMO",  
            "HYGRO", "BARO", "ANEMO", "PLUVIO", "SCHED", "TWI", "SOUND",  
            "TOYON", "LIFT", "THERMOSTAT", "UDP TRANSPARENT MODE", "MSG",  
            "AIS", "AISTRK", "ITSXML2", "GATEWAY", "GATEWAYSENSOR",  
            "GATEWAYDEVICE", "CONNECTOR", "DAHUA", "DEFENDIR", "DVREXT",  
            "IOANALOG", "AX8", "TOPVIEW", "VA", "DYNACOLOR", "JAMMER",  
            "JAMCH", "PROTOCOL", "STREAMER" ]  
    }  
}
```

## 6 Appendix B: List of Actions

- **SERVERServerShutdown**

**Description**

Initiates a server shutdown

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERServerShutdown[&DeviceID=<devId>]`

**Response**

```
{ "SERVERServerShutdown": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERRemoteControlRequest**

**Description**

Requests control of the server

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERRemoteControlRequest&Forced=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERRemoteControlRequest": { "Return Code" : "<code>", "Return String" : "<string>", "Accept" : <integer>, "Token" : <integer> } }
```

- **SERVERRemoteControlRelease**

**Description**

Releases control of the server

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERRemoteControlRelease&RemoteID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERRemoteControlRelease": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERVersionGet**

**Description**

Requests server's version number

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERVersionGet[&DeviceID=<devId>]`

**Response**

```
{ "SERVERVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", "MajorVersion" : <byte>, "MinorVersion" : <byte>, "MajorRevision" : <byte>, "MinorRevision" : <byte> } }
```

- **SERVERTokenStatusGet**

**Description**

Requests token status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERTokenStatusGet[&DeviceID=<devId>]`

**Response**

```
{ "SERVERTokenStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", "TokenOwnerID" : <integer>, "TokenOwnerStr" : <string>, "Status" : <integer>, "RequesterID" : <integer>, "RequesterStr" : <string>, "countdown" : <integer> } }
```

- **SERVERWhoAmI**

**Description**

Requests information

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERWhoAmI[&DeviceID=<devId>]`

**Response**

```
{ "SERVERWhoAmI": { "Return Code" : "<code>", "Return String" : "<string>", "Id" : <integer>, "Owner" : <integer>, "ip" : <string> } }
```

- **SERVERRemoteControlRequestAsync**

**Description**

Requests control of the server. Does not wait for server's answer.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERRemoteControlRequestAsync&Forced=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERRemoteControlRequestAsync": { "Return Code" : "<code>", "Return String" : "<string>", "Token" : <integer> } }
```

- **SERVERRemoteControlRequestAsync2**

**Description**

Requests control of the server. Does not wait for server's answer. If no errors occur, the function returns the id of the token owner. If there is an error, returns the negative value of the error.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERRemoteControlRequestAsync2&Forced=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERRemoteControlRequestAsync2": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERPing**

**Description**

Sends a ping to the server

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERPing[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERPing": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTokenTimeoutGet**

**Description**

Requests server's timeout for requesting control

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERTokenTimeoutGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERTokenTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "token_timeout" : <integer> } } }
```

- **SERVERLicenseExpirationGet**

**Description**

Requests number of days remaining for license expiration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLicenseExpirationGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLicenseExpirationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Expiration" : <integer> } } }
```

- **SERVERStandby**

**Description**

Initiates a server standby

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERStandby[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERStandby": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERWakeUp**

**Description**

Initiates a server Wake Up (get out of Standby mode)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERWakeUp[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERWakeUp": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERStandbyGet**

**Description**

Requests if the server is in standby

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERStandbyGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERStandbyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Standby" : <integer> } } }
```

- **SERVERNexusCGIWSAvailableGet**

**Description**

Requests if the server has NexusCGI through WebSockets available

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERNexusCGIWSAvailableGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNexusCGIWSAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "WSAvailable" : <integer> } } }
```

- **SERVERSessionTimeoutGet**

**Description**

Requests the timeout in seconds to keep the session alive without receiving any command

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERSessionTimeoutGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERSessionTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Seconds" : <integer> } } }
```

- **SERVERConfigurationParameterSet**

**Description**

Sets a new value for a configuration parameter

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERConfigurationParameterSet&Section=<string>&Parameter=<string>&Value=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERConfigurationParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERConfigurationParameterGet**

**Description**

Requests the current value of a configuration parameter

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERConfigurationParameterGet&Section=<string>&Parameter=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERConfigurationParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <string> } } }
```

- **SERVERSystemIdGet**

**Description**

Requests the system identification number

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERSystemIdGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERSystemIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SystemId" : <string> } } }
```

- **SERVERLicenseInfoGet**

**Description**

Requests the license information

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLicenseInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLicenseInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : <string> } } }
```

- **SERVERLicenseFileContentSet**

**Description**

Sets the license file content in 1kB blocks

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLicenseFileContentSet&Offset=<integer>&Content=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLicenseFileContentSet": { "Return Code" : "<code>", "Return String" : "<string>", { "BytesWritten" : <integer> } } }
```

- **SERVERLicenseFileContentGet**

**Description**

Requests the license file content in 1kB blocks. Offset+BytesRead+Remainder equals the total size

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLicenseFileContentGet&Offset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLicenseFileContentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BytesRead" : <integer>, "Remainder" : <integer>, "Content" : <string> } } }
```

- **SERVERStartupModeSet**

**Description**

Sets the Startup mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERStartupModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERStartupModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERStartupModeGet**

**Description**

Returns current Startup mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERStartupModeGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERStartupModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **SERVERDefaultSettingsSet**

**Description**

Default Settings Set

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERDefaultSettingsSet[&DeviceID=<devId>]

**Response**

```
{ "SERVERDefaultSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERDefaultSettingsRestore**

**Description**

Default Settings Restore

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERDefaultSettingsRestore[&DeviceID=<devId>]

**Response**

```
{ "SERVERDefaultSettingsRestore": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERFirmwareVersionGet**

**Description**

Requests the Firmware Version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERFirmwareVersionGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERFirmwareVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERHardwareVersionGet**

**Description**

Requests the Hardware Version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERHardwareVersionGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERHardwareVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERSerialNumberGet**

**Description**

Requests the Serial Number string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSerialNumberGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERSerialNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERModelNumberGet**

**Description**

Requests the Model Number string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERModelNumberGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERModelNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERFWUpgradeInfoGet**

**Description**

Requests the FW upgrade info (uri,delay,downtime)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERFWUpgradeInfoGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERFWUpgradeInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UploadURI" : <string>, "UploadDelay" : <integer>, "UploadDownTime" : <integer> } } }
```

- **SERVERSessionTimeoutSet**

**Description**

Sets the timeout in seconds to keep the session alive without receiving any command

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSessionTimeoutSet&Seconds=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERSessionTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSessionClose**

**Description**

Tells the server to close the current session

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSessionClose[&DeviceID=<devId>]

**Response**

```
{ "SERVERSessionClose": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERConfigurationHashCodeGet**

**Description**

Requests the current configuration hash code, timestamp and a flag that indicates if the configuration has changed since last reset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERConfigurationHashCodeGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERConfigurationHashCodeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HashCode" : <string>, "Timestamp" : <string>, "ConfChangedStatus" : <integer> } } }
```

- **SERVERConfigurationChangedStatusReset**

**Description**

Resets the configuration changed status flag

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERConfigurationChangedStatusReset[&DeviceID=<devId>]

**Response**

```
{ "SERVERConfigurationChangedStatusReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERConfigurationChangedStatusLogGet**

**Description**

Requests the current change in conf log since last reset. Empty if there is no change since last reset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERConfigurationChangedStatusLogGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERConfigurationChangedStatusLogGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ChangeLog" : <string> } } }
```

- **SERVERGeneralBITEExecute**

**Description**

Initiates a checking routine for the state of every single device in the configuration of the Sensor. This routine can take a long period of time. During execution, any command sent will receive a Busy return code.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERGeneralBITEExecute[&DeviceID=<devId>]

**Response**

```
{ "SERVERGeneralBITEExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERGeneralBITAbort**

**Description**

Aborts execution of checking routine

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERGeneralBITAbort[&DeviceID=<devId>]

**Response**

```
{ "SERVERGeneralBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERGeneralBITResultGet**

**Description**

Reads the result of the General BIT routine when completed. While General BIT is still in course, a .busy. return code will be received when polling, until the result is ready.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERGeneralBITResultGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERGeneralBITResultGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **SERVERGetDeviceHealth**

**Description**

Requests health state of given device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERGetDeviceHealth&Device\_Type=<byte>&Device\_Id=<byte>[&DeviceID=<devId>]

**Response**

```
{ "SERVERGetDeviceHealth": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **SERVERDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **SERVERLongGeneralBITResultGet**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERLongGeneralBITResultGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERLongGeneralBITResultGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **SERVERFriendlyNameSet**

**Description**

Sets the friendly name string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERFriendlyNameSet&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "SERVERFriendlyNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERFriendlyNameGet**

**Description**

Requests the friendly name string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERFriendlyNameGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERFriendlyNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **SERVERSaveDefaultSettingsFromScript**

**Description**

save current settings in the script as default

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ServersaveDefaultSettingsFromScript[&DeviceID=<devId>]

**Response**

```
{ "ServersaveDefaultSettingsFromScript": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERRestoreDefaultSettingsFromScript**

**Description**

restore default settings from a script

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERRestoreDefaultSettingsFromScript[&DeviceID=<devId>]

**Response**

```
{ "SERVERRestoreDefaultSettingsFromScript": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSaveDefaultSettingsFromScriptById**

**Description**

save current device settings as default

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ServersaveDefaultSettingsFromScriptById&DevType=<integer>&DevId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ServersaveDefaultSettingsFromScriptById": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERRestoreDefaultSettingsFromScriptById**

**Description**

restore current device settings as default

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERRestoreDefaultSettingsFromScriptById&DevTy pe=<integer>&DevId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERRestoreDefaultSettingsFromScriptById": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSaveDefaultSettingsProfile**

**Description**

save current settings in the selected profile

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ServersaveDefaultSettingsProfile&Profile=<integer>[& DeviceID=<devId>]

**Response**

```
{ "ServersaveDefaultSettingsProfile": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERRestoreDefaultSettingsProfile**

**Description**

restore default settings from the selected profile

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERRestoreDefaultSettingsProfile&Profile=<integer> [&DeviceID=<devId>]

**Response**

```
{ "SERVERRestoreDefaultSettingsProfile": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERLogConfigurationSet**

**Description**

Sets the server log configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERLogConfigurationSet&OnOff=<integer>&Level=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERLogConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERLogConfigurationGet**

**Description**

Returns server log configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERLogConfigurationGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERLogConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Level" : <integer> } } }
```

- **SERVERCameraInstallationInfoSet**

**Description**

Sets the camera installation info in json

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERCameraInstallationInfoSet&InstallationInfo=<string>[&DeviceID=<devId>]

**Response**

```
{ "SERVERCameraInstallationInfoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERCameraInstallationInfoGet**

**Description**

Requests the camera installation info in json

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERCameraInstallationInfoGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERCameraInstallationInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "InstallationInfo" : <string> } } }
```

- **SERVERInstallationModeSet**

**Description**

Sets the sensor installation mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERInstallationModeSet&Mode=<string>[&DeviceID=<devId>]

**Response**

```
{ "SERVERInstallationModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERInstallationModeGet**

**Description**

Requests the sensor installation mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERInstallationModeGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERInstallationModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <string> } } }
```

- **SERVERVideoFormatSet**

**Description**

Sets the video format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERVideoFormatSet&Format=<string>[&DeviceID=<devId>]

**Response**

```
{ "SERVERVideoFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERVideoFormatGet**

**Description**

Requests the video format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERVideoFormatGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERVideoFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <string> } } }
```

- **SERVERUDPClientRegister**

**Description**

Registers a client in the server. The server will send NMEA sentences to all registered clients.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERUDPClientRegister&Port=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERUDPClientRegister": { "Return Code" : "<code>", "Return String" : "<string>", { "Token" : <integer> } } }
```

- **SERVERUDPClientRegister2**

**Description**

Registers a client in the server. The server will send NMEA sentences to all registered clients. If no errors occur, the function returns the client's session id. If there is an error, returns the negative value of the error.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERUDPClientRegister2&Port=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERUDPClientRegister2": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERUDPClientUnregister**

**Description**

Unregisters a client in the server.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERUDPClientUnregister[&DeviceID=<devId>]

**Response**

```
{ "SERVERUDPClientUnregister": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTDeviceConfigGet**

**Description**

This command returns a summary of the device's configuration, which includes device type, device id, driver number and state of the device (enabled or not)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERTVERDeviceConfigGet[&DeviceID=<devId>]

**Response**

```
{ "SERTVERDeviceConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Config" : <array> } } }
```

- **SERVERNetworkConfigGet**

**Description**

This command returns the configuration of the server related to networking.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVENetworkConfigGet[&DeviceID=<devId>]

**Response**

```
{ "SERVENetworkConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Config" : <string> } } }
```

- **SERVERLastNMEAGet**

**Description**

This command returns the value of the current NMEA string of the NEXUS server.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Token_ID" : <integer>, "Owner" : <string>, "Remote_Request" : <integer>, "Requester_String" : <string>, "Countdown" : <integer>, "ConfChangedTimestamp" : <string>, "ConfChangedFlag" : <integer> } } }
```

- **SERVERGetSensorType**

**Description**

This command returns the cserver's sensor type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERGetSensorType[&DeviceID=<devId>]

**Response**

```
{ "SERVERGetSensorType": { "Return Code" : "<code>", "Return String" : "<string>", { "SensorType" : <integer> } } }
```

- **SERVERGetHostType**

**Description**

This command returns the server's host type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERGetHostType[&DeviceID=<devId>]

**Response**

```
{ "SERVERGetHostType": { "Return Code" : "<code>", "Return String" : "<string>", { "HostType" : <integer> } } }
```

- **SERVERDriverNameGet**

**Description**

Requests driver name of a device identified by its type and id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERDriverNameGet&Type=<integer>&Id=<integer> [&DeviceID=<devId>]

**Response**

```
{ "SERVERDriverNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERActiveCameraSet**

**Description**

Selects a specific camera as active

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERActiveCameraSet&Type=<integer>&Id=<integer> [&DeviceID=<devId>]

**Response**

```
{ "SERVERActiveCameraSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERActiveCameraGet**

**Description**

Returns device Type and Id of the current active camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERActiveCameraGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERActiveCameraGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer>, "Id" : <integer> } } }
```

- **SERVERActiveCameraToggle**

**Description**

Toggle current active camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERActiveCameraToggle[&DeviceID=<devId>]

**Response**

```
{ "SERVERActiveCameraToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSecondaryCameraSet**

**Description**

Selects a specific camera as secondary

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSecondaryCameraSet&Type=<integer>&Id=<integer> [&DeviceID=<devId>]

**Response**

```
{ "SERVERSecondaryCameraSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSecondaryCameraGet**

**Description**

Returns device Type and Id of the current secondary camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSecondaryCameraGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERSecondaryCameraGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer>, "Id" : <integer> } } }
```

- **SERVERSecondaryCameraToggle**

**Description**

Toggle current secondary camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSecondaryCameraToggle[&DeviceID=<devId>]

**Response**

```
{ "SERVERSecondaryCameraToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSnapshotPush**

**Description**

Generates and send snapshot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSnapshotPush&Type=<integer>&StoreLocal=<integer>&FTP=<integer>&NFS=<integer>&SMB=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERSnapshotPush": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERInitialActiveCameraSet**

**Description**

Selects a specific camera as active on start up

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERInitialActiveCameraSet&Type=<integer>&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SUPERInitialActiveCameraSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SUPERInitialActiveCameraGet**

**Description**

Returns device Type and Id of the initial active camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERInitialActiveCameraGet[&DeviceID=<devId>]

**Response**

```
{ "SUPERInitialActiveCameraGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer>, "Id" : <integer> } } }
```

- **SUPERDiskDrivesGet**

**Description**

Returns the path for all the HDD Drives present on the system

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERDiskDrivesGet[&DeviceID=<devId>]

**Response**

```
{ "SUPERDiskDrivesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Drives" : <string> } } }
```

- **SUPERDiskDriveStatsGet**

**Description**

Returns the statistics of a disk drive

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERDiskDriveStatsGet&Drive=<string>[&DeviceID=<devId>]

**Response**

```
{ "SUPERDiskDriveStatsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Statistics" : <string> } } }
```

- **SUPERCPUUsageGet**

**Description**

Returns the CPU Usage of the system

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERCPUUsageGet[&DeviceID=<devId>]

**Response**

```
{ "SUPERCPUUsageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Usage" : <string> } } }
```

- **SUPERNTPConfigurationSet**

**Description**

Sets NTP Configuration parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERNTPConfigurationSet&Enabled=<integer>&FromDHCP=<integer>&Servers=<string>[&DeviceID=<devId>]

**Response**

```
{ "SUPERNTPConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SUPERNTPConfigurationGet**

**Description**

Returns NTP Configuration parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SUPERNTPConfigurationGet[&DeviceID=<devId>]

**Response**

```
{ "SUPERNTPConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "FromDHCP" : <integer>, "Servers" : <string> } } }
```

- **SERVERSystemCommandExecute**

**Description**

Execute a system command

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERSystemCommandExecute&Command=<string> [&DeviceID=<devId>]

**Response**

```
{ "SERVERSystemCommandExecute": { "Return Code" : "<code>", "Return String" : "<string>", { "CommandReturn" : <string> } } }
```

- **SERVERUpTimeGet**

**Description**

Returns UpTime Info

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERUpTimeGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERUpTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UpTime" : <string> } } }
```

- **SERVERThreadInfoGet**

**Description**

Returns Thread Info

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERThreadInfoGet&PID=<longint> [&DeviceID=<devId>]

**Response**

```
{ "SERVERThreadInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : <string> } } }
```

- **SERVERThreadInfoByNameGet**

**Description**

Returns Thread Info

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERThreadInfoByNameGet&Name=<string> [&DeviceID=<devId>]

**Response**

```
{ "SERVERThreadInfoByNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : <string> } } }
```

- **SERVERUpTimeSecondsGet**

**Description**

Returns UpTime In Seconds

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERUpTimeSecondsGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERUpTimeSecondsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UpTime" : <longint> } } }
```

- **SERVERUpTimeSystemGet**

**Description**

Returns System UpTime In Seconds

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERUpTimeSystemGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERUpTimeSystemGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UpTime" : <longint> } } }
```

- **SERVERClientsInfoGet**

**Description**

Returns a string with info about the clients connected

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERClientsInfoGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERClientsInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : <string> } } }
```

- **SERVERMediaFileListGet**

**Description**

Returns a list of the available media files

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERMediaFileListGet&Location=<integer>&MediaType=<integer>&Index=<integer> [&DeviceID=<devId>]

**Response**

```
{ "SERVERMediaFileListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Total" : <integer>, "List" : <string> } } }
```

- **SERVERMediaFileRemove**

**Description**

Removes the specified media file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMediaFileRemove&Location=<integer>&Media Type=<integer>&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMediaFileRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERMediaFileRemoveAll**

**Description**

Removes all specified media files

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMediaFileRemoveAll&Location=<integer>&Media Type=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMediaFileRemoveAll": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVOOperatingHoursGet**

**Description**

Returns total operating hours

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVOOperatingHoursGet[&DeviceID=<devId>]
```

**Response**

```
{ "SEROOperatingHoursGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OpHours" : <longint> } } }
```

- **SERVOOperatingSupplyVoltageGet**

**Description**

Returns system operating input voltage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVOOperatingSupplyVoltageGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVOOperatingSupplyVoltageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Voltage" : <float> } } }
```

- **SERVOOperatingSupplyCurrentGet**

**Description**

Returns system operating input current

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVOOperatingSupplyCurrentGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVOOperatingSupplyCurrentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Current" : <float> } } }
```

- **SERVERBiosVersionGet**

**Description**

Gets bios version

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERBiosVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERBiosVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BiosInfo" : <string> } } }
```

- **SERVERNumberOfClientsGet**

**Description**

Returns the number of clients of that specific type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNumberOfClientsGet&ClientType=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNumberOfClientsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "NumberOfClients" : <integer> } } }
```

- **SERVERTMacroScriptExecuteById**

**Description**

Executes a specific Macro Script

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptExecuteById&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERTMacroScriptExecuteById": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTMacroScriptExecuteByName**

**Description**

Executes a specific Macro Script

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptExecuteByName&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERTMacroScriptExecuteByName": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTMacroScriptParametersGetById**

**Description**

Returns the parameters of a specific Macro Script

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptParametersGetById&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERTMacroScriptParametersGetById": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameters" : <string> } } }
```

- **SERVERTMacroScriptParametersGetByName**

**Description**

Returns the parameters of a specific Macro Script

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptParametersGetByName&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERTMacroScriptParametersGetByName": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameters" : <string> } } }
```

- **SERVERTMacroScriptExecuteCode**

**Description**

Executes a specific Macro Script code

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptExecuteCode&Code=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERTMacroScriptExecuteCode": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTMacroScriptExecutionStatusGet**

**Description**

Returns the execution status for Macro Script

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptExecutionStatusGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERTMacroScriptExecutionStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **SERVERTMacroScriptExecutionAbort**

**Description**

Aborts the execution of current Macro Script code

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTMacroScriptExecutionAbort[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptExecutionAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• SERVERMacroScriptInitialize****Description**

Initializes the macro scripts information from XML file in the server

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMacroScriptInitialize[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptInitialize": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• SERVERMacroScriptFileListGet****Description**

Returns a list of the available macro scripts XML files

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMacroScriptFileListGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptFileListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "List" : "<string>" } } }
```

**• SERVERMacroScriptFileLoad****Description**

Loads macro scripts from a specific XML file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMacroScriptFileLoad&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptFileLoad": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• SERVERMacroScriptFileCurrentGet****Description**

Returns the name of current macro scripts XML spec file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMacroScriptFileCurrentGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptFileCurrentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : "<string>" } } }
```

**• SERVERMacroScriptExecuteCommand****Description**

Executes a specific Macro Script command

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMacroScriptExecuteCommand&Command=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptExecuteCommand": { "Return Code" : "<code>", "Return String" : "<string>", { "Response" : "<string>" } } }
```

**• SERVERMacroScriptExecuteFile****Description**

Executes a specific Macro Script File.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERMacroScriptExecuteFile&FileName=<string>&FileHeader=<string>&Blocking=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERMacroScriptExecuteFile": { "Return Code" : "<code>", "Return String" : "<string>", { "FileOutput" : "<string>" } } }
```

**• SERVERUIDefinitionGet****Description**

Returns information and a URL to get the Client Description file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERUIDefinitionGet&Platform=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERUIDefinitionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Model" : <string>, "Version" : <string>, "URL" : <string>, "Info" : <string> } } }
```

- **SERVERJCUBButtonPressed**

**Description**

Reports a JCU buttons has been pressed in the client. This command must be sent periodically while the button is pressed.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUBButtonPressed&Button=<integer>&Time=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCUBButtonPressed": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUBButtonReleased**

**Description**

Reports a JCU buttons has been released in the client.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUBButtonReleased&Button=<integer>&Time=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCUBButtonReleased": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCU3AxisState**

**Description**

Reports the position of the three JCU axis.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCU3AxisState&Axis1=<integer>&Value1=<float>&Axis2=<integer>&Value2=<float>&Axis3=<integer>&Value3=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCU3AxisState": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUAxisState**

**Description**

Reports the position of a JCU axis has changed.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUAxisState&Axis=<integer>&Value=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCUAxisState": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUCConfigButtonEvent**

**Description**

Comamnds an event in JCU configurable button.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUCConfigButtonEvent&Id=<integer>&ButtonEvent=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCUCConfigButtonEvent": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUCConfigButtonActionSet**

**Description**

Sets the associated action of a JCU configurable button.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUCConfigButtonActionSet&Id=<integer>&Action=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCUCConfigButtonActionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUCConfigButtonActionGet**

**Description**

Returns current associated action of a JCU configurable button.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUCConfigButtonActionGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERJCUConfigButtonActionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Action" : <integer> } } }
```

- **SERVERJCUConfigButtonActionToggle**

**Description**

Toggles current associated action of a JCU configurable button.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUConfigButtonActionToggle&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUConfigButtonActionToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUConfigButtonActionNameGet**

**Description**

Returns the name of current associated action of a JCU configurable button.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUConfigButtonActionNameGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUConfigButtonActionNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Action" : <string> } } }
```

- **SERVERJCUConfigButtonActionOptionNameGet**

**Description**

Returns the name of one of the options for a JCU configurable button.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUConfigButtonActionOptionNameGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUConfigButtonActionOptionNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SERVERJCUShiftOn**

**Description**

Specified Shift has been turned on

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUShiftOn&Shift=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUShiftOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUShiftOff**

**Description**

Specified Shift has been turned off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUShiftOff&Shift=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUShiftOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUPilotModeSet**

**Description**

Sets the Pilot Mode state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUPilotModeSet&OnOff=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUPilotModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUPilotModeGet**

**Description**

Gets the Pilot Mode state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERJCUPilotModeGet[&DeviceID=<devId>]`

**Response**

```
{ "SERVERJCUPilotModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **SERVERJCUPilotModeToggle**

**Description**

Toggles the Pilot Mode state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUPilotModeToggle[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUPilotModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUConfigGet**

**Description**

Gets JCU configuration parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUConfigGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeScale" : <integer>, "MagnitudeScale" : <integer>, "KeepAlive" : <integer>, "CommandRepeat" : <integer>, "PowerOnDelay" : <integer>, "ShutDownDelay" : <integer>, "BackLightDelay" : <integer>, "DeadbandAtRestId0" : <integer>, "DeadbandAtRestId1" : <integer>, "DeadbandAtRestId2" : <integer>, "DeadbandAtRestId3" : <integer>, "DeadbandTranslationId0" : <integer>, "DeadbandTranslationId1" : <integer>, "DeadbandTranslationId2" : <integer>, "DeadbandTranslationId3" : <integer> } } }
```

- **SERVERJCUFOVDependentSet**

**Description**

Sets the JCU FOV Dependent state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUFOVDependentSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUFOVDependentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUFOVDependentGet**

**Description**

Gets the JCU FOV Dependent state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUFOVDependentGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUFOVDependentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **SERVERJCUFOVDependentToggle**

**Description**

Toggles the FOV Dependent state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUFOVDependentToggle[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUFOVDependentToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUFOVDependentFactorSet**

**Description**

Sets the JCU FOV Dependent factor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUFOVDependentFactorSet&Factor=<float>[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUFOVDependentFactorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUFOVDependentFactorGet**

**Description**

Gets the JCU FOV Dependent factor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUFOVDependentFactorGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUFOVDependentFactorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Factor" : <float> } } }
```

- **SERVERJCUConfigButtonActionsGet**

**Description**

Returns the function index of every UPButton.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUConfigButtonActionsGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUConfigButtonActionsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Actions" : "<string>" } } }
```

- **SERVERJCUConfigButtonActionsCountGet**

**Description**

Returns the number of available actions for the UPBs.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUConfigButtonActionsCountGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUConfigButtonActionsCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Actions" : "<integer>" } } }
```

- **SERVERJCULongPressDurationSet**

**Description**

Sets the duration of the Long Press

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCULongPressDurationSet&Duration=<longint>[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCULongPressDurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCULongPressDurationGet**

**Description**

Gets the duration of the Long Press

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCULongPressDurationGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCULongPressDurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Duration" : "<longint>" } } }
```

- **SERVERJCUTwistToPanSet**

**Description**

Sets enabled/disabled twist to pan configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUTwistToPanSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUTwistToPanSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERJCUTwistToPanGet**

**Description**

Gets enabled/disabled twist to pan configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUTwistToPanGet[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUTwistToPanGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **SERVERJCUTwistToPanToggle**

**Description**

Toggles enabled/disabled twist to pan configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVERJCUTwistToPanToggle[&DeviceID=<devId>]

**Response**

```
{ "SERVERJCUTwistToPanToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSupportedFunctionGet**

**Description**

Returns if the specified function is supported

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERSupportedFunctionGet&DevType=<string>&DevId=<integer>&FunctionName=<string>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERSupportedFunctionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Supported" : <integer> } } }
```

- **SERVERTSupportedFunctionInfoGet**

**Description**

Returns if the specified function is supported

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERTSupportedFunctionInfoGet&DevType=<string>&DevId=<integer>&FunctionName=<string>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERTSupportedFunctionInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FunctionInfo" : "<string> } } }
```

- **SERVERTUnsupportedFunctionsExecutionFilterSet**

**Description**

Allows to bypass the filter to not to allow to execute functions that are not in the list of supported functions

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTUnsupportedFunctionsExecutionFilterSet&DevType=<integer>&DevId=<integer>&Filter=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERTUnsupportedFunctionsExecutionFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTUnsupportedFunctionsExecutionFilterGet**

**Description**

Allows to bypass the filter to not to allow to execute functions that are not in the list of supported functions

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTUnsupportedFunctionsExecutionFilterGet&DevType=<integer>&DevId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERTUnsupportedFunctionsExecutionFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter" : <integer> } } }
```

- **SERVERTPeerDiscoveryStart**

**Description**

Starts peer sensor discovery

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTPeerDiscoveryStart[&DeviceID=<devId>]`

**Response**

```
{ "SERTPeerDiscoveryStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTPeerDiscoveryClear**

**Description**

Clears the list of discovered sensors

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTPeerDiscoveryClear[&DeviceID=<devId>]`

**Response**

```
{ "SERTPeerDiscoveryClear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTPeerDiscoverySensorCountGet**

**Description**

Returns the number of discovered peer sensors

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTPeerDiscoverySensorCountGet[&DeviceID=<devId>]`

**Response**

```
{ "SERTPeerDiscoverySensorCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **SERVERTPeerDiscoverySensorGet**

**Description**

Returns the Info sentence of a specific peer sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERPeerDiscoverySensorGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERPeerDiscoverySensorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : <string> } } }
```

- **SERVAUTHInitialize**

**Description**

Initial step to login. A challenge string will be provided

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHInitialize[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHInitialize": { "Return Code" : "<code>", "Return String" : "<string>", { "Challenge" : <string> } } }
```

- **SERVAUTHLogin**

**Description**

Authentication Login

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHLogin&UserName=<string>&Nonce=<string>&Hash=<string>&Type=<integer>&Brand=<string>&Model=<string>[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHLogin": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHLogout**

**Description**

Authentication Logout

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHLogout[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHLogout": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHUserCreate**

**Description**

Authentication Create User

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHUserCreate&UserName=<string>&Password=<string>&UserGroup=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHUserCreate": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHUserRemove**

**Description**

Authentication Remove User

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHUserRemove&UserName=<string>[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHUserRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHLoginStatusGet**

**Description**

authentication and proprietary status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHLoginStatusGet[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHLoginStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LoginStatus" : <integer>, "ProprietaryStatus" : <integer> } } }
```

- **SERVAUTHRequiredGet**

**Description**

Returns if authentication is required for this server

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVAUTHRequiredGet[&DeviceID=<devId>]`

**Response**

```
{ "SERVAUTHRequiredGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AuthRequired" : <integer> } } }
```

- **SERVAUTHUserCountGet**

**Description**

Returns the actual number of users

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHUserCountGet[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHUserCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **SERVAUTHUserInfoGet**

**Description**

Returns the information about a specific user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHUserInfoGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHUserInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <integer>, "Name" : "<string> } } }
```

- **SERVAUTHUserChange**

**Description**

Sets the password and level for a specific user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHUserChange&Name=<string>&Password=<string>&Level=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHUserChange": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHUserInfoByNameGet**

**Description**

Returns the information about a specific user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHUserInfoByNameGet&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHUserInfoByNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <integer>, "Level" : <integer> } } }
```

- **SERVAUTHUserPasswordChange**

**Description**

Sets the password for a specific user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHUserPasswordChange&Name=<string>&Password=<string>[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHUserPasswordChange": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHUserLevelChange**

**Description**

Sets the level for a specific user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHUserLevelChange&Name=<string>&Level=<integer>[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHUserLevelChange": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVAUTHPasswordPolicyGet**

**Description**

Returns the rules for password policy

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=SERVAUTHPasswordPolicyGet[&DeviceID=<devId>]

**Response**

```
{ "SERVAUTHPasswordPolicyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinLength" : <integer>, "MaxLength" : <integer>, "MinDigits" : <integer>, "MinLowerCase" : <integer>, "MinUpperCase" : <integer>, "MinSpecialChars" : <integer>, "AllowedSpecialChars" : <string>, "NotAllowedSpecialChars" : <string> } } }
```

- **SERVERNetworkSettingsSet**

**Description**

Changes general network settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkSettingsSet&DnsDhcp=<integer>&DNS=<string>&SearchDomain=<string>&HostnameDhcp=<integer>&Hostname=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNetworkSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERNetworkSettingsGet**

**Description**

Returns current general network settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkSettingsGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNetworkSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DnsDhcp" : <integer>, "DNS" : <string>, "SearchDomain" : <string>, "HostnameDhcp" : <integer>, "Hostname" : <string> } } }
```

- **SERVERNetworkInterfaceSet**

**Description**

Changes the IP network settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkInterfaceSet&Index=<integer>&DHCP=<integer>&ZeroConf=<integer>&IpAddress=<string>&NetMask=<string>&Gateway=<string>&MTU=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNetworkInterfaceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERNetworkInterfaceGet**

**Description**

Returns current IP network settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkInterfaceGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNetworkInterfaceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DHCP" : <integer>, "ZeroConf" : <integer>, "IpAddress" : <string>, "NetMask" : <string>, "Gateway" : <string>, "MTU" : <integer> } } }
```

- **SERVERNetworkRestart**

**Description**

Restarts the IP network interface

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkRestart&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNetworkRestart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERDateTimeSet**

**Description**

Changes current Date Time settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERDateTimeSet&Year=<integer>&Month=<integer>&Day=<integer>&Hour=<integer>&Minute=<integer>&Second=<integer>&Daylight=<integer>&NTP=<integer>&NtpDhcp=<integer>&NtpServers=<string>&Timezone=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERDateTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERDateTimeGet**

**Description**

Changes current Date Time settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERDateTimeGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERDateTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Year" : <integer>, "Month" : <integer>, "Day" : <integer>, "Hour" : <integer>, "Minute" : <integer>, "Second" : <integer>, "Daylight" : <integer>, "NTP" : <integer>, "NtpDhcp" : <integer>, "NtpServers" : <string>, "Timezone" : <string> } } }
```

- **SERVERSystemReboot**

**Description**

Reboots the system

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERSystemReboot&Delay=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERSystemReboot": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSystemRestoreDefault**

**Description**

Restores factory default

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERSystemRestoreDefault&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERSystemRestoreDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERSystemSaveAsDefault**

**Description**

Saves current settings as system default

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERSystemSaveAsDefault[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERSystemSaveAsDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERWebSystemInfoGet**

**Description**

Returns system information

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERWebSystemInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERWebSystemInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : "<string>" } } }
```

- **SERVERLockDownFirewallSet**

**Description**

Sets the value to lock/unlock the firewall

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLockDownFirewallSet&Locked=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLockDownFirewallSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERLockDownFirewallGet**

**Description**

Returns current value of firewall lock

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLockDownFirewallGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLockDownFirewallGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Locked" : "<integer>" } } }
```

- **SERVERLockDownWiFiSet**

**Description**

Sets the value to lock/unlock the wireless connections

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLockDownWiFiSet&Locked=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLockDownWiFiSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERLockDownWiFiGet**

**Description**

Returns current value of wireless lock

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERLockDownWiFiGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERLockDownWiFiGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Locked" : <integer> } } }
```

- **SERVERTLSConfigurationSet**

**Description**

Changes general TLS settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTTLSConfigurationSet&Enabled=<integer>&Port=<integer>&Redirect=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERTLSConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTLSConfigurationGet**

**Description**

Returns current general TLS settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTTLSConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERTLSConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "Port" : <integer>, "Redirect" : <integer>, "CertsValid" : <string>, "CertsValidText" : <string> } } }
```

- **SERVERTLSSelfSignedCertificateCreate**

**Description**

Create a self-signed TLS Certificate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTLSSelfSignedCertificateCreate&ExpirationTime=<integer>&Country=<string>&State=<string>&Locality=<string>&Organization=<string>&OrganizationUnit=<string>&EmailAddress=<string>&CommonName=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERTLSSelfSignedCertificateCreate": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERTLSCertificateInfoGet**

**Description**

Return current TLS fields Certificate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERTLSCertificateInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERTLSCertificateInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SelfSigned" : <integer>, "Country" : <string>, "State" : <string>, "Locality" : <string>, "Organization" : <string>, "OrganizationUnit" : <string>, "EmailAddress" : <string>, "CommonName" : <string>, "ValidFrom" : <string>, "ValidTo" : <string>, "Issuer" : <string>, "Valid" : <string> } } }
```

- **SERVERAuthenticationCGISet**

**Description**

Changes CGI Authentication Method

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERAuthenticationCGISet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERAuthenticationCGISet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERAuthenticationCGIGet**

**Description**

Returns current CGI Authentication Method

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERAuthenticationCGIGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERAuthenticationCGIGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **SERVERNetwork8021xConfigurationSet**

**Description**

Changes general 802.1x settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetwork8021xConfigurationSet&Enabled=<integer>&AuthenticationType=<integer>&Identity=<string>&AnonymousIdentity=<string>&Password=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERNetwork8021xConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVENetwork8021xConfigurationGet**

**Description**

Returns current general 802.1x settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVENetwork8021xConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVENetwork8021xConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "AuthenticationType" : <integer>, "Identity" : <string>, "AnonymousIdentity" : <string>, "Password" : <string>, "CertsValid" : <string>, "CertsValidText" : <string> } } }
```

- **SERVERFirewallConfigurationSet**

**Description**

Changes Firewall configuration settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERFirewallConfigurationSet&Enabled=<integer>&SSH=<integer>&FTP=<integer>&HTTP=<integer>&HTTPS=<integer>&RTSP=<integer>&UPNP=<integer>&NexusDiscovery=<integer>&NexusSDK=<integer>&TRK=<integer>&ICMP=<integer>&Reserved1=<integer>&Reserved2=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERFirewallConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERFirewallConfigurationGet**

**Description**

Returns Firewall configuration settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERFirewallConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERFirewallConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "SSH" : <integer>, "FTP" : <integer>, "HTTP" : <integer>, "HTTPS" : <integer>, "RTSP" : <integer>, "UPNP" : <integer>, "NexusDiscovery" : <integer>, "NexusSDK" : <integer>, "TRK" : <integer>, "ICMP" : <integer>, "Reserved1" : <integer>, "Reserved2" : <integer> } } }
```

- **SERVERFirmwareUpgradeStatusGet**

**Description**

Returns Firmware upgrade status info

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERFirmwareUpgradeStatusGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERFirmwareUpgradeStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Stage" : <integer>, "Progress" : <float>, "Message" : <string> } } }
```

- **SERVERFirmwareUpgradePreparationSet**

**Description**

Prepares the system for Firmware upgrade

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERFirmwareUpgradePreparationSet[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERFirmwareUpgradePreparationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERCloudCommitDevice**

**Description**

Onboarding camera

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERCloudCommitDevice&SecretKey=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SERVERCloudCommitDevice": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERCloudAvailabilityGet**

**Description**

FLIR Cloud Availability

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERCloudAvailabilityGet[&DeviceID=<devId>]`

**Response**

```
{ "SERVERCloudAvailabilityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer>, "Info" : "<string>" } } }
```

- **SERVERNetworkSpeedInterfaceSet**

**Description**

Change the Ethernet speed interface

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkSpeedInterfaceSet&Iface=<integer>&SpeedType=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERNetworkSpeedInterfaceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERVERNetworkSpeedInterfaceGet**

**Description**

Returns current Ethernet speed interface

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERVERNetworkSpeedInterfaceGet&Iface=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "SERVERNetworkSpeedInterfaceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SpeedType" : <integer> } } }
```

- **DLTZoomCountsSet**

**Description**

Sets the value of the zoom in counts

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTZoomCountsSet&Zoom=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTZoomCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTZoomCountsGet**

**Description**

Gets the value of the zoom in counts

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTZoomCountsGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTZoomCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom" : <integer> } } }
```

- **DLTZoomDegreesSet**

**Description**

Sets the value of the zoom in degrees

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTZoomDegreesSet&Zoom=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTZoomDegreesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTZoomDegreesGet**

**Description**

Gets the value of the zoom in degrees

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTZoomDegreesGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTZoomDegreesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom" : <float> } } }
```

- **DLTZoomPercentageSet**

**Description**

Sets the value of the zoom in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTZoomPercentageSet&Zoom=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVZoomPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomPercentageGet**

**Description**

Gets the value of the zoom in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom" : <float> } } }
```

- **DLTVZoomChangeRateCountsSet**

**Description**

Sets the value of the zoom change rate in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomChangeRateCountsSet&Zoom_Rate=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomChangeRateCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomChangeRateCountsGet**

**Description**

Gets the value of the zoom change rate in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomChangeRateCountsGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomChangeRateCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom_Rate" : <integer> } } }
```

- **DLTVZoomChangeRatePercentageSet**

**Description**

Sets the value of the zoom change rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomChangeRatePercentageSet&Zoom_Rate=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomChangeRatePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomChangeRatePercentageGet**

**Description**

Gets the value of the zoom change rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomChangeRatePercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomChangeRatePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom_Rate" : <float> } } }
```

- **DLTVZoomCountsIncrement**

**Description**

Increments the value of the zoom

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomCountsIncrement[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomCountsIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomCountsDecrement**

**Description**

Decrements the value of the zoom

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomCountsDecrement[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomCountsDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomStop**

**Description**

Aborts zoom changes

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomStop[&DeviceID=<devId>]`

**Response**

```
{ "DLTVZoomStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomSlaveSet**

**Description**

If Slave\_Zoom is 1, slaves DLT camera zoom to IR camera FOV. If Slave\_Zoom is 0, disables slave zoom associated to IR camera FOV

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomSlaveSet&Slave_Zoom=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVZoomSlaveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomSlaveGet**

**Description**

Requests state of slave zoom

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomSlaveGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVZoomSlaveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Slave_Zoom" : <integer> } } }
```

- **DLTVDigitalZoomSet**

**Description**

Sets digital zoom on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDigitalZoomSet&Digital_Zoom=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVDigitalZoomSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDigitalZoomGet**

**Description**

Requests state of digital zoom

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDigitalZoomGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVDigitalZoomGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Digital_Zoom" : <integer> } } }
```

- **DLTVZoomExtenderSet**

**Description**

Sets zoom extender on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomExtenderSet&Zoom_Extender=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVZoomExtenderSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomExtenderGet**

**Description**

Requests state of zoom extender

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomExtenderGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVZoomExtenderGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom_Extender" : <integer> } } }
```

- **DLTVFOVMagnificationSet**

**Description**

Changes the FOV to achieve the requested magnification

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFOVMagnificationSet&Magnification=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFOVMagnificationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFOVMagnificationGet**

**Description**

Requests current magnification (maxFOV/currentFOV)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFOVMagnificationGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFOVMagnificationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Magnification" : <float> } } }
```

- **DLTVFOVRRangeGet**

**Description**

Requests FOV achievable range (optical and electronic)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFOVRRangeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFOVRRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Min_FOV" : <float>, "Max_FOV" : <float> } } }
```

- **DLTVDigitalZoomMagnificationSet**

**Description**

Changes the Digital Zoom Magnification to achieve the requested Magnification

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDigitalZoomMagnificationSet&Magnification=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDigitalZoomMagnificationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDigitalZoomMagnificationGet**

**Description**

Requests current Digital Zoom Magnification

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDigitalZoomMagnificationGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDigitalZoomMagnificationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Magnification" : <float> } } }
```

- **DLTVZoomMoveTimeoutSet**

**Description**

Sets the time to stop zoom continuous movement

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomMoveTimeoutGet**

**Description**

Request time to stop zoom continuous movement

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomMoveTimeoutGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } } }
```

- **DLTVZoomSlaveToggle**

**Description**

Toggles zoom slave function

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVZoomSlaveToggle[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVZoomSlaveToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDigitalZoomEnableSet**

**Description**

Sets digital zoom enable/disable

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDigitalZoomEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVDigitalZoomEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDigitalZoomEnableGet**

**Description**

Requests state of digital zoom (enable/disable)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDigitalZoomEnableGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDigitalZoomEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **DLTVDigitalZoomEnableToggle**

**Description**

Sets digital zoom enable/disable

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDigitalZoomEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "DLTVDigitalZoomEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDigitalZoomMagnificationPercentageSet**

**Description**

Changes the Digital Zoom to achieve the requested Magnification

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDigitalZoomMagnificationPercentageSet&Magnification=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVDigitalZoomMagnificationPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDigitalZoomMagnificationPercentageGet**

**Description**

Requests current Digital Zoom Magnification percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDigitalZoomMagnificationPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDigitalZoomMagnificationPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Magnification" : <float> } } }
```

- **DLTVZoomCountsLongSet**

**Description**

Sets the value of the zoom in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVZoomCountsLongSet&Zoom=<longint>[&DeviceID=<devId>]

**Response**

```
{ "DLTVZoomCountsLongSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVZoomCountsLongGet**

**Description**

Gets the long value of the zoom in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVZoomCountsLongGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVZoomCountsLongGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom" : <longint> } } }
```

- **DLTVZoomIncrementPercentage**

**Description**

Increments zoom value in percentage. Use negative value to decrement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVZoomIncrementPercentage&Increment=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVZoomIncrementPercentage": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBoresightZoom**

**Description**

Zoom for boresight process

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBoresightZoom&Zoom=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVBoresightZoom": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBoresightPanTilt**

**Description**

Pan and Tilt for boresight process

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBoresightPanTilt&Pan=<integer>&Tilt=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVBoresightPanTilt": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBoresightSave**

**Description**

Saves the boresight current parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBoresightSave[&DeviceID=<devId>]

**Response**

```
{ "DLTVBoresightSave": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBoresightFactorySave**

**Description**

Saves the boresight current parameters as factory

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBoresightFactorySave[&DeviceID=<devId>]

**Response**

```
{ "DLTVBoresightFactorySave": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusCountsSet**

**Description**

Sets value of focus in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusCountsSet&Focus=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusCountsGet**

**Description**

Requests value of focus in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusCountsGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus" : <integer> } } }
```

- **DLTVFocusPercentageSet**

**Description**

Sets value of focus in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusPercentageSet&Focus=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusPercentageGet**

**Description**

Requests value of focus in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus" : <float> } } }
```

- **DLTVFocusChangeRateCountsSet**

**Description**

Sets the value of the focus change rate in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusChangeRateCountsSet&Focus_Rate=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusChangeRateCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusChangeRateCountsGet**

**Description**

Requests the value of the focus change rate in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusChangeRateCountsGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusChangeRateCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus_Rate" : <integer> } } }
```

- **DLTVFocusChangeRatePercentageSet**

**Description**

Sets the value of the focus change rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusChangeRatePercentageSet&Focus_Rate=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusChangeRatePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusChangeRatePercentageGet**

**Description**

Requests the value of the focus change rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusChangeRatePercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusChangeRatePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus_Rate" : <float> } } }
```

- **DLTVFocusCountsIncrement**

**Description**

Increments the value of the focus

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusCountsIncrement[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusCountsIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusCountsDecrement**

**Description**

Decrements the value of the focus in one count

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusCountsDecrement[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusCountsDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusStop**

**Description**

Aborts zoom changes

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusStop[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVFocusStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusSet**

**Description**

Sets autofocus on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusSet&AutoFocus=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusGet**

**Description**

Requests state of autofocus

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoFocus" : <integer> } } }
```

- **DLTVFocusInfinity**

**Description**

Sets focus to infinity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFocusInfinity[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFocusInfinity": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusPush**

**Description**

Autofocus Push

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusPush[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusPush": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusSensitivitySet**

**Description**

Sets Autofocus Sensitivity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusSensitivitySet&AutoFocusSensitivity=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusSensitivitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusSensitivityGet**

**Description**

Requests AutoFocus Sensitivity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusSensitivityGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusSensitivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoFocusSensitivity" : <integer> } } }
```

- **DLTVAutoFocusModeSet**

**Description**

Requests AutoFocus Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusModeSet&AutoFocusMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusModeGet**

**Description**

Requests AutoFocus Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoFocusModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoFocusModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoFocusMode" : <integer> } } }
```

- **DLTVBackFocusIncrement**

**Description**

Increases back focus

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBackFocusIncrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVBackFocusIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBackFocusDecrement**

**Description**

Decreases back focus

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBackFocusDecrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVBackFocusDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBackFocusStop**

**Description**

Stops back focus changes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBackFocusStop[&DeviceID=<devId>]

**Response**

```
{ "DLTVBackFocusStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusToNewTargetSet**

**Description**

Sets focus to new target

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusToNewTargetSet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusToNewTargetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusMoveTimeoutSet**

**Description**

Sets the time to stop focus continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusMoveTimeoutGet**

**Description**

Request time to stop focus continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusMoveTimeoutGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } } }
```

- **DLTVFocusMetricGet**

**Description**

Request how focused is

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusMetricGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusMetricGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FocusMetric" : <float> } } }
```

- **DLTVFocusROIParamsSet**

**Description**

Sets size and position for Focus ROI

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusROIParamsSet&X=<integer>&Y=<integer>&Width=<integer>&Height=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusROIParamsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusROIParmsGet**

**Description**

Requests current Focus ROI position and size

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusROIParmsGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusROIParmsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer>, "Width" : <integer>, "Height" : <integer> } } }
```

- **DLTVFocusCountsLongSet**

**Description**

Sets long value of focus in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusCountsLongSet&Focus=<longint>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusCountsLongSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFocusCountsLongGet**

**Description**

Requests long value of focus in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusCountsLongGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusCountsLongGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus" : <longint> } } }
```

- **DLTVFocusAvailableGet**

**Description**

Returns whether focus is available or not

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFocusAvailableGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFocusAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **DLTVAutoFocusLaserEnableSet**

**Description**

Sets AutoFocus Laser Enable mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAutoFocusLaserEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVAutoFocusLaserEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoFocusLaserEnableGet**

**Description**

Returns AutoFocus Laser Enable mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAutoFocusLaserEnableGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVAutoFocusLaserEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **DLTVIrisCountsSet**

**Description**

Sets value of iris in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVIrisCountsSet&Iris=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVIrisCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisCountsGet**

**Description**

Requests value of iris in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVIrisCountsGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVIrisCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Iris" : <integer> } } }
```

- **DLTVIrisPercentageSet**

**Description**

Sets value of iris in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisPercentageSet&Iris=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisPercentageGet**

**Description**

Requests value of iris in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Iris" : <float> } } }
```

- **DLTVIrisChangeRateCountsSet**

**Description**

Sets iris change rate in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisChangeRateCountsSet&Iris_Rate=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisChangeRateCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisChangeRateCountsGet**

**Description**

Requests iris change rate in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisChangeRateCountsGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisChangeRateCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Iris_Rate" : <integer> } } }
```

- **DLTVIrisRatePercentageSet**

**Description**

Sets iris change rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisRatePercentageSet&Iris_Rate=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisRatePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisRatePercentageGet**

**Description**

Requests iris change rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisRatePercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisRatePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Iris_Rate" : <float> } } }
```

- **DLTVIrisCountsIncrement**

**Description**

Increments the value of the iris

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisCountsIncrement[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIrisCountsIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisCountsDecrement**

**Description**

Decrements the value of the iris

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisCountsDecrement[&DeviceID=<devId>]`

**Response**

```
{ "DLTVIrisCountsDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisStop**

**Description**

Aborts iris changes

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisStop[&DeviceID=<devId>]`

**Response**

```
{ "DLTVIrisStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoIrisSet**

**Description**

Sets autoiris on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoIrisSet&AutoIris=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoIrisSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoIrisGet**

**Description**

Requests state of autoiris

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoIrisGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoIrisGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Autoiris" : <integer> } } }
```

- **DLTVIrisMoveTimeoutSet**

**Description**

Sets the time to stop iris continuous movement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVIrisMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIrisMoveTimeoutGet**

**Description**

Request time to stop iris continuous movement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIrisMoveTimeoutGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVIrisMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } } }
```

- **DLTVFilterSet**

**Description**

Sets filter on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFilterSet&Filter=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFilterGet**

**Description**

Requests state of filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFilterGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter" : <integer> } } }
```

- **DLTVEnhancerSet**

**Description**

Sets enhancer on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVEnhancerSet&Filter=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVEnhancerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVEnhancerGet**

**Description**

Requests state of enhancer

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVEnhancerGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVEnhancerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enhancer" : <integer> } } }
```

- **DLTVAutoGainControlSet**

**Description**

Sets Agc on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAutoGainControlSet&Agc=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVAutoGainControlSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoGainControlGet**

**Description**

Requests state of Agc

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAutoGainControlGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVAutoGainControlGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Agc" : <integer> } } }
```

- **DLTVGainSet**

**Description**

Sets gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVGainSet&Gain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGainGet**

**Description**

Requests gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVGainGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <integer> } } }
```

- **DLTVBrightSet**

**Description**

Sets bright

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBrightSet&Bright=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVBrightSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBrightGet**

**Description**

Requests bright

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBrightGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVBrightGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Bright" : <integer> } } }
```

- **DLTVICRModeAutoSet**

**Description**

Sets ICR auto mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVICRModeAutoSet&ICRAutoMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVICRModeAutoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVICRModeAutoGet**

**Description**

Requests ICR auto mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVICRModeAutoGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVICRModeAutoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ICRAutoMode" : <integer> } } }
```

- **DLTVICRModeSet**

**Description**

Sets ICR mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVICRModeSet&ICRMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVICRModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVICRModeGet**

**Description**

Requests ICR mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVICRModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVICRModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ICRMode" : <integer> } } }
```

- **DLTVGainIncrement**

**Description**

Increments gain

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGainIncrement[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGainIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGainDecrement**

**Description**

Decrements gain

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGainDecrement[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGainDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGainStop**

**Description**

Stops gain changes

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGainStop[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGainStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGainPercentageSet**

**Description**

Sets gain value in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGainPercentageSet&Gain=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGainPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGainPercentageGet**

**Description**

Requests gain value in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGainPercentageGet[&DeviceID=<devId>]`  
**Response**

```
{ "DLTVGainPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <float> } } }
```

- **DLTVLightControlModeSet**

**Description**

Sets light control mode value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLightControlModeSet&LightControlMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLightControlModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLightControlModeGet**

**Description**

Requests light control mode value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLightControlModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLightControlModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LightControlMode" : <integer> } } }
```

- **DLTVAreaSelectSet**

**Description**

Sets Area Select value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAreaSelectSet&AreaSelect=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAreaSelectSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAreaSelectGet**

**Description**

Requests Area Select value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAreaSelectGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAreaSelectGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AreaSelect" : <integer> } } }
```

- **DLTVRatioPeakAverageSet**

**Description**

Sets Ratio Peak Average value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRatioPeakAverageSet&RatioPeakAverage=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRatioPeakAverageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRatioPeakAverageGet**

**Description**

Requests Ratio Peak Average value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRatioPeakAverageGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRatioPeakAverageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RatioPeakAverage" : <integer> } } }
```

- **DLTVOFFSETPERCENTAGESET**

**Description**

Sets the offset as a percentage.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVOFFSETPERCENTAGESET&Offset=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVOFFSETPERCENTAGESET": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVOffsetPercentageGet**

**Description**

Gets the offset as a percentage.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVOffsetPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVOffsetPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Offset" : <float> } } }
```

- **DLTVAGCROIEnableSet**

**Description**

Enable/Disable AGC ROI

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIEnableSet&Enable=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAGCROIEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAGCROIEnableGet**

**Description**

Requests AGC ROI Enable value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIEnableGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAGCROIEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **DLTVAGCROIParamsSet**

**Description**

Sets size and position for AGC ROI

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIParamsSet&X=<integer>&Y=<integer>&Width=<integer>&Height=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAGCROIParamsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAGCROIParamsGet**

**Description**

Requests current AGC ROI position and size

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIParamsGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAGCROIParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer>, "Width" : <integer>, "Height" : <integer> } } }
```

- **DLTVAGCROIDisplaySet**

**Description**

Shows or not AGC ROI on screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIDisplaySet&Enable=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAGCROIDisplaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAGCROIDisplayGet**

**Description**

Requests AGC ROI Display value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIDisplayGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAGCROIDisplayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **DLTVGainIncrementStep**

**Description**

Increments gain (increment value can be negative)

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGainIncrementStep&Gain=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGainIncrementStep": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVOFFSETINCREMENT**

**Description**

Increments offset (increment value can be negative)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVOFFSETINCREMENT&Offset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVOFFSETINCREMENT": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAGCROIActivePresetSet**

**Description**

Activates an AGC ROI Preset

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIActivePresetSet&Preset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAGCROIActivePresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAGCROIActivePresetGet**

**Description**

Requests active AGC ROI Preset Id, -1 if no preset is active

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAGCROIActivePresetGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAGCROIActivePresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **DLTVAntiFogModeSet**

**Description**

Sets anti fog mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAntiFogModeSet&AntiFog=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAntiFogModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAntiFogModeGet**

**Description**

Requests anti fog mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAntiFogModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAntiFogModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AntiFog" : <integer> } } }
```

- **DLTVTransferFunctionCorrectionSet**

**Description**

Sets Transfer Function Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTransferFunctionCorrectionSet&TransferFunctionCorrection=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVTransferFunctionCorrectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTransferFunctionCorrectionGet**

**Description**

Request Transfer Function Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTransferFunctionCorrectionGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVTransferFunctionCorrectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TransferFunctionCorrection" : <integer> } } }
```

- **DLTVTransferFunctionCorrectionToggle**

**Description**

Toggles Transfer Function Correction

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTransferFunctionCorrectionToggle[&DeviceID=<devId>]

**Response**

```
{ "DLTVTransferFunctionCorrectionToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVICRModeAutoThresholdSet**

**Description**

Sets the percentage of threshold level

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVICRModeAutoThresholdSet&Threshold=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVICRModeAutoThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVICRModeAutoThresholdGet**

**Description**

Requests the percentage of threshold level

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVICRModeAutoThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVICRModeAutoThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <float> } } }
```

- **DLTVICRModeAutoToggle**

**Description**

Toggles ICR Auto Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVICRModeAutoToggle[&DeviceID=<devId>]

**Response**

```
{ "DLTVICRModeAutoToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVICRModeToggle**

**Description**

Toggles ICR Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVICRModeToggle[&DeviceID=<devId>]

**Response**

```
{ "DLTVICRModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVColorSaturationPercentageSet**

**Description**

Sets color saturation value in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVColorSaturationPercentageSet&ColorSaturation=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVColorSaturationPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVColorSaturationPercentageGet**

**Description**

Requests color saturation value in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVColorSaturationPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVColorSaturationPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ColorSaturation" : <float> } } }
```

- **DLTVAntiFogLevelSet**

**Description**

Sets the defog filter level

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAntiFogLevelSet&AntifogLevel=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAntiFogLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAntiFogLevelGet**

**Description**

Requests the defog filter level

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAntiFogLevelGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAntiFogLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AntifogLevel" : <float> } } }
```

- **DLTVLightControlModeToggle**

**Description**

Toggles the light control mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLightControlModeToggle[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLightControlModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFunctionKeySend**

**Description**

Sends a key stroke to the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFunctionKeySend&Key=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFunctionKeySend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFunctionKeyPress**

**Description**

Sends a key press sequence to the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFunctionKeyPress&Key=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFunctionKeyPress": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFunctionKeyRelease**

**Description**

Sends a key release sequence to the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFunctionKeyRelease&Key=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFunctionKeyRelease": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRegisterValueSet**

**Description**

Sets a value for a register

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRegisterValueSet&Register=<integer>&Value=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRegisterValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRegisterValueGet**

**Description**

returns the value of the indicated register

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRegisterValueGet&Register=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRegisterValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <integer> } } }
```

- **DLTVActiveSourceSet**

**Description**

Sets as active source. 0=unset,1=set

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVActiveSourceSet&ActiveSource=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVActiveSourceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVActiveSourceGet**

**Description**

Requests if camera is the active source. 0=no,1=yes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVActiveSourceGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVActiveSourceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ActiveSource" : <integer> } } }
```

- **DLTVTestPatternSet**

**Description**

Sets the value for test pattern

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTestPatternSet&Pattern=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVTestPatternSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTestPatternGet**

**Description**

Requests current value for test pattern

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTestPatternGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVTestPatternGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Pattern" : <integer> } } }
```

- **DLTVDisplayTypeSet**

**Description**

Sets the value for the display type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDisplayTypeSet&Type=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVDisplayTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDisplayTypeGet**

**Description**

Requests current value for display type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDisplayTypeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDisplayTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer> } } }
```

- **DLTVFrameRateSet**

**Description**

Sets the value for the frame rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFrameRateSet&Rate=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFrameRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFrameRateGet**

**Description**

Requests current value for frame rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFrameRateGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFrameRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rate" : <float> } } }
```

- **DLTVTriggerSourceSet**

**Description**

Sets the trigger source

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTriggerSourceSet&Source=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVTriggerSourceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTriggerSourceGet**

**Description**

Requests current value for the trigger source

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTriggerSourceGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVTriggerSourceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Source" : <integer> } } }
```

- **DLTVTriggerModeSet**

**Description**

Sets the trigger mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTriggerModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVTriggerModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTriggerModeGet**

**Description**

Requests current value for the trigger mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVTriggerModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVTriggerModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVWhiteBalanceModeSet**

**Description**

Sets white balance mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceModeSet&WhiteBalanceMode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWhiteBalanceModeGet**

**Description**

Requests white balance mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "WhiteBalanceMode" : <integer> } } }
```

- **DLTVAutoExposureModeSet**

**Description**

Sets auto exposure mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAutoExposureModeSet&AutoExposure=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVAutoExposureModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoExposureModeGet**

**Description**

Requests auto exposure mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAutoExposureModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVAutoExposureModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoExposure" : <integer> } } }
```

**• DLTVPauseModeSet****Description**

Sets pause mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPauseModeSet&SlowShutter=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPauseModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DLTVPauseModeGet****Description**

Requests pause mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPauseModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPauseModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SlowShutter" : <integer> } } }
```

**• DLTVPausePositionSet****Description**

Sets pause position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPausePositionSet&ShutterPosition=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPausePositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DLTVPausePositionGet****Description**

Requests pause position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPausePositionGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPausePositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ShutterPosition" : <integer> } } }
```

**• DLTVEposureCompensationSet****Description**

Sets exposure comp

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureCompensationSet&ExposureCompensation=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVEposureCompensationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DLTVEposureCompensationGet****Description**

Requests exposure comp

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureCompensationGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVEposureCompensationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ExposureCompensation" : <integer> } } }
```

**• DLTVEposureCompensationPositionSet****Description**

Sets exposure comp position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureCompensationPositionSet&ExposureCompensationPosition=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVEposureCompensationPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVEposureCompensationPositionGet**

**Description**

Requests exposure comp position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVEposureCompensationPositionGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVEposureCompensationPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", "ExposureCompensationPosition" : <integer> } }
```

- **DLTVBackLightCompensationSet**

**Description**

Sets back light compensation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBackLightCompensationSet&BackLightCompensation=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVBackLightCompensationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBackLightCompensationGet**

**Description**

Requests back light compensation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBackLightCompensationGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVBackLightCompensationGet": { "Return Code" : "<code>", "Return String" : "<string>", "BackLightCompensation" : <integer> } }
```

- **DLTVLensInitialize**

**Description**

Initializes Lens

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLensInitialize[&DeviceID=<devId>]

**Response**

```
{ "DLTVLensInitialize": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTPixelCorrectionInitialize**

**Description**

Initializes Pixel Correction

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTPixelCorrectionInitialize[&DeviceID=<devId>]

**Response**

```
{ "DLTPixelCorrectionInitialize": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWhiteBalanceTrigger**

**Description**

Triggers White Balance

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceTrigger[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceTrigger": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRGainSet**

**Description**

Sets red gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVRGainSet&RGain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVRGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRGainGet**

**Description**

Requests red gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVRGainGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVRGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RGain" : <integer> } } }
```

- **DLTVBGainSet**

**Description**

Sets blue gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBGainSet&BGain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVBGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBGainGet**

**Description**

Requests blue gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBGainGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVBGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BGain" : <integer> } } }
```

- **DLTVShutterIncrement**

**Description**

Increments a step the shutter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVShutterIncrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVShutterIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVShutterDecrement**

**Description**

Decrements a step the shutter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVShutterDecrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVShutterDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSensUpSet**

**Description**

Sets the SensUp value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVSensUpSet&SensUp=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVSensUpSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSensUpGet**

**Description**

Gets the SensUp value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVSensUpGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVSensUpGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SensUp" : <integer> } } }
```

- **DLTVDNRSet**

**Description**

Enables/disables the DNR

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDNRSet&DNR=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVDNRSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDNRGet**

**Description**

Gets the DNR status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDNRGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDNRGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DNR" : <integer> } } }
```

- **DLTVEposureTimeSet**

**Description**

Sets the exposure time

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureTimeSet&Miliseconds=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVEposureTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVEposureTimeGet**

**Description**

Gets the exposure time

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureTimeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVEposureTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Miliseconds" : <float> } } }
```

- **DLTVAutoExposureTrigger**

**Description**

Performs an auto exposure calibration.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoExposureTrigger[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAutoExposureTrigger": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGGainSet**

**Description**

Sets the Green gain value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGGainSet&GGain=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVGGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGGainGet**

**Description**

Requests current green gain value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGGainGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVGGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GGain" : <integer> } } }
```

- **DLTVColorCorrectionModeSet**

**Description**

Disables/Enables Color Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVColorCorrectionModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVColorCorrectionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVColorCorrectionModeGet**

**Description**

Requests current status for Color Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVColorCorrectionModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVColorCorrectionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVEposureTimePercentageSet**

**Description**

Sets the exposure time in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureTimePercentageSet&Percentage=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVEposureTimePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVExposureTimePercentageGet**

**Description**

Gets the exposure time in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExposureTimePercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVExposureTimePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVATWRangeModeSet**

**Description**

Sets ATW Range Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVATWRangeModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVATWRangeModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVATWRangeModeGet**

**Description**

Requests ATW Range Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVATWRangeModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVATWRangeModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVWhiteBalanceROIModeSet**

**Description**

Sets White Balance ROI Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceROIModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceROIModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWhiteBalanceROIModeGet**

**Description**

Requests White Balance ROI Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceROIModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceROIModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVWhiteBalanceROIActivePresetSet**

**Description**

Sets White Balance ROI Active Preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceROIActivePresetSet&ActivePreset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceROIActivePresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWhiteBalanceROIActivePresetGet**

**Description**

Requests White Balance ROI Active Preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWhiteBalanceROIActivePresetGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWhiteBalanceROIActivePresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ActivePreset" : <integer> } } }
```

- **DLTVRGainOffsetPercentageSet**

**Description**

Sets RGain Offset Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRGainOffsetPercentageSet&RGainOffsetPercentage=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRGainOffsetPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRGainOffsetPercentageGet**

**Description**

Requests RGain Offset Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRGainOffsetPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRGainOffsetPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", "RGainOffsetPercentage" : <float> } }
```

- **DLTVBGainOffsetPercentageSet**

**Description**

Sets BGain Offset Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBGainOffsetPercentageSet&BGainOffsetPercentage=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVBGainOffsetPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBGainOffsetPercentageGet**

**Description**

Requests BGain Offset Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBGainOffsetPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVBGainOffsetPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", "BGainOffsetPercentage" : <float> } }
```

- **DLTGVGammaModeSet**

**Description**

Sets Gamma Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTGVGammaModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTGVGammaModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTGVGammaModeGet**

**Description**

Requests Gamma Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTGVGammaModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTGVGammaModeGet": { "Return Code" : "<code>", "Return String" : "<string>", "Mode" : <integer> } }
```

- **DLTVAutoExposureSpotOnOffSet**

**Description**

Sets the spot auto exposure state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoExposureSpotOnOffSet&OnOff=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoExposureSpotOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoExposureSpotOnOffGet**

**Description**

Gets the spot auto exposure state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoExposureSpotOnOffGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoExposureSpotOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", "OnOff" : <integer> } }
```

- **DLTVAutoExposureSpotPositionSet**

**Description**

Sets the auto exposure spot position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoExposureSpotPositionSet&posX=<integer>&posY=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAutoExposureSpotPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoExposureSpotPositionGet**

**Description**

Gets the auto exposure spot position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoExposureSpotPositionGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAutoExposureSpotPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "posX" : <integer>, "posY" : <integer> } } }
```

- **DLTVChromaSuppressSet**

**Description**

Sets the chroma suppress setting level

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVChromaSuppressSet&chroma=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVChromaSuppressSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVChromaSuppressGet**

**Description**

Gets the chroma suppress setting level

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVChromaSuppressGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVChromaSuppressGet": { "Return Code" : "<code>", "Return String" : "<string>", { "chroma" : <integer> } } }
```

- **DLTVBlackLevelCorrectionSet**

**Description**

Sets Black Level Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBlackLevelCorrectionSet&BlackLevelCorrection=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVBlackLevelCorrectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBlackLevelCorrectionGet**

**Description**

Request Black Level Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBlackLevelCorrectionGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVBlackLevelCorrectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlackLevelCorrection" : <integer> } } }
```

- **DLTVBlackLevelCorrectionToggle**

**Description**

Toggles Black Level Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBlackLevelCorrectionToggle[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVBlackLevelCorrectionToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFrameIntegrationSet**

**Description**

Sets the frame integration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFrameIntegrationSet&Miliseconds=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFrameIntegrationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFrameIntegrationGet**

**Description**

Gets the exposure time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFrameIntegrationGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFrameIntegrationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Miliseconds" : <float> } } }
```

- **DLTVFrameIntegrationPercentageSet**

**Description**

Sets the frame integration in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFrameIntegrationPercentageSet&Percentage=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFrameIntegrationPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFrameIntegrationPercentageGet**

**Description**

Gets the frame integration in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFrameIntegrationPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFrameIntegrationPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVCColorPaletteSet**

**Description**

Sets Color Palette

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCColorPaletteSet&ColorPalette=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVCColorPaletteSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVCColorPaletteGet**

**Description**

Request Color Palette

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCColorPaletteGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVCColorPaletteGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ColorPalette" : <integer> } } }
```

- **DLTVEposureTimeRangeGet**

**Description**

Request Exposure Time Range

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVEposureTimeRangeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVEposureTimeRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinTime" : <float>, "MaxTime" : <float> } } }
```

- **DLTVFrameIntegrationRangeGet**

**Description**

Request Frame Integration Range

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVFrameIntegrationRangeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVFrameIntegrationRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinTime" : <float>, "MaxTime" : <float> } } }
```

- **DLTVExpCompPercentageSet**

**Description**

Sets the exposure compensation percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExpCompPercentageSet&Percentage=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVExpCompPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVExpCompPercentageGet**

**Description**

Requests the exposure compensation percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExpCompPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVExpCompPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVSharpnessPositionSet**

**Description**

Sets sharpness position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVSharpnessPositionSet&SharpnessPosition=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVSharpnessPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSharpnessPositionGet**

**Description**

Requests sharpness position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVSharpnessPositionGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVSharpnessPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SharpnessPosition" : <integer> } } }
```

- **DLTVSharpnessPercentageSet**

**Description**

Sets Sharpness Percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVSharpnessPercentageSet&Percentage=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVSharpnessPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSharpnessPercentageGet**

**Description**

Requests Sharpness Percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVSharpnessPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVSharpnessPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVICRModeAutoLevelSet**

**Description**

Sets Auto ICR level Percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVICRModeAutoLevelSet&Percentage=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVICRModeAutoLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVICRModeAutoLevelGet**

**Description**

Request Auto ICR level Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVICRModeAutoLevelGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVICRModeAutoLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTGVGammaOffsetSet**

**Description**

Sets Gamma Offset level

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTGVGammaOffsetSet&GammaOffset=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTGVGammaOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTGVGammaOffsetGet**

**Description**

Requests Gamma Offset Level

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTGVGammaOffsetGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTGVGammaOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GammaOffset" : <integer> } } }
```

- **DLTVSharpnessSet**

**Description**

Sets Sharpness

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVSharpnessSet&Sharpness=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVSharpnessSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSharpnessGet**

**Description**

Requests Sharpness

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVSharpnessGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVSharpnessGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sharpness" : <float> } } }
```

- **DLTVHuePercentageSet**

**Description**

Sets Hue Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHuePercentageSet&Percentage=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVHuePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHuePercentageGet**

**Description**

Requests Hue Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHuePercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVHuePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVAntiFlickerModeSet**

**Description**

Sets the anti flicker mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAntiFlickerModeSet&AntiFlickerMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAntiFlickerModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAntiFlickerModeGet**

**Description**

Request anti flicker mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAntiFlickerModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVAntiFlickerModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AntiFlickerMode" : <integer> } } }
```

- **DLTVAEMeteringModeSet**

**Description**

Sets the AE metering mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAEMeteringModeSet&AEMeteringMode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVAEMeteringModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAEMeteringModeGet**

**Description**

Request the AE metering mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVAEMeteringModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVAEMeteringModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AEMeteringMode" : <integer> } } }
```

- **DLTVDDEGainPercentageSet**

**Description**

Configures DDE gain in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDDEGainPercentageSet&Gain=<float>[&DeviceID=<devId>]

**Response**

```
{ "DLTVDDEGainPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDDEGainPercentageGet**

**Description**

Returns the current DDE gain in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDDEGainPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDDEGainPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <float> } } }
```

- **DLTVHighLightCompensationSet**

**Description**

Sets high light compensation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVHighLightCompensationSet&HighLightCompensation=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVHighLightCompensationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHighLightCompensationGet**

**Description**

Requests high light compensation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVHighLightCompensationGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVHighLightCompensationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HighLightCompensation" : <integer> } } }
```

- **DLTVSubsystemOn**

**Description**

Turns DLTV subsystem on

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVSubsystemOn\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVSubsystemOn[&DeviceID=<devId>])

**Response**

```
{ "DLTVSubsystemOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSubsystemOff**

**Description**

Turns DLTV subsystem off

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVSubsystemOff\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVSubsystemOff[&DeviceID=<devId>])

**Response**

```
{ "DLTVSubsystemOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVSubsystemPowerGet**

**Description**

Requests value of DLTV subsystem power

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVSubsystemPowerGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVSubsystemPowerGet[&DeviceID=<devId>])

**Response**

```
{ "DLTVSubsystemPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Power" : <integer> } } }
```

- **DLTVHeaterStatusSet**

**Description**

Sets heater status

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVHeaterStatusSet&HeaterStatus=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHeaterStatusSet&HeaterStatus=<integer>[&DeviceID=<devId>])

**Response**

```
{ "DLTVHeaterStatusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHeaterStatusGet**

**Description**

Requests heater status

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVHeaterStatusGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHeaterStatusGet[&DeviceID=<devId>])

**Response**

```
{ "DLTVHeaterStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HeaterStatus" : <integer> } } }
```

- **DLTVDefrosterStatusSet**

**Description**

Sets Defroster status

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVDefrosterStatusSet&HeaterStatus=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDefrosterStatusSet&HeaterStatus=<integer>[&DeviceID=<devId>])

**Response**

```
{ "DLTVDefrosterStatusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDefrosterStatusGet**

**Description**

Requests Defroster status

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVDefrosterStatusGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDefrosterStatusGet[&DeviceID=<devId>])

**Response**

```
{ "DLTVDefrosterStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HeaterStatus" : <integer> } } }
```

- **DLTVSubsystemPowerSet**

**Description**

Sets value of subsystem power

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=DLTVSubsystemPowerSet&Power=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVSubsystemPowerSet&Power=<integer>[&DeviceID=<devId>])

**Response**

```
{ "DLTVSubsystemPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVPemperatureGet**

**Description**

Requests Temperature Monitor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTemperatureGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TemperatureMonitor" : <float> } }
```

- **DLTPictureEffectSet**

**Description**

Sets picture effect

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPictureEffectSet&PictureEffect=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTPictureEffectSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTPictureEffectGet**

**Description**

Requests picture effect

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPictureEffectGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTPictureEffectGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PictureEffect" : <integer> } } }
```

- **DLTDigitalEffectSet**

**Description**

Sets digital effect

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTDigitalEffectSet&DigitalEffect=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTDigitalEffectSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTDigitalEffectGet**

**Description**

Requests digital effect

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTDigitalEffectGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTDigitalEffectGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DigitalEffect" : <integer> } } }
```

- **DLTFlipModeSet**

**Description**

Sets flip Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTFlipModeSet&FlipMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTFlipModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTFlipModeGet**

**Description**

Requests flip Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTFlipModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTFlipModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FlipMode" : <integer> } } }
```

- **DLTReverseModeSet**

**Description**

Sets reverse mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTReverseModeSet&ReverseMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTReverseModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVReverseModeGet**

**Description**

Requests reverse mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVReverseModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVReverseModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ReverseMode" : <integer> } } }
```

- **DLTVFreezeSet**

**Description**

Sets freeze

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFreezeSet&Freeze=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVFreezeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVFreezeGet**

**Description**

Requests freeze

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVFreezeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVFreezeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Freeze" : <integer> } } }
```

- **DLTVImageFormatSet**

**Description**

Sets the image format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVImageFormatSet&Format=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVImageFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVImageFormatGet**

**Description**

Requests the image format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVImageFormatGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVImageFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **DLTVBinningSet**

**Description**

Sets the image binning

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBinningSet&Binning=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVBinningSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBinningGet**

**Description**

Requests the image binning

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBinningGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVBinningGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Binning" : <integer> } } }
```

- **DLTVNoiseSupressionModeSet**

**Description**

Sets the status for Noise Supression

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVNoiseSupressionModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVNoiseSupressionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVNoiseSupressionModeGet**

**Description**

Requests the status of Noise Supression

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVNoiseSupressionModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVNoiseSupressionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVNoiseSupressionPositionSet**

**Description**

Sets the level for Noise Supression

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVNoiseSupressionPositionSet&Position=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVNoiseSupressionPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVNoiseSupressionPositionGet**

**Description**

Requests the current level of Noise Supression

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVNoiseSupressionPositionGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVNoiseSupressionPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Position" : <integer> } } }
```

- **DLTWSmearSupressionModeSet**

**Description**

Sets the status for Smear Supression

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTWSmearSupressionModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTWSmearSupressionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTWSmearSupressionModeGet**

**Description**

Requests the current status of Noise Supression

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTWSmearSupressionModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTWSmearSupressionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVContrastEnhancementModeSet**

**Description**

Sets the status for Contrast Enhancement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVContrastEnhancementModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVContrastEnhancementModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVContrastEnhancementModeGet**

**Description**

Requests the current status of Contrast Enhancement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVContrastEnhancementModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVContrastEnhancementModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVContrastEnhancementDarkLevelSet**

**Description**

Sets the dark level for Contrast Enhancement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVContrastEnhancementDarkLevelSet&Level=<float> [&DeviceID=<devId>]`

**Response**

```
{ "DLTVContrastEnhancementDarkLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVContrastEnhancementDarkLevelGet**

**Description**

Requests the current dark level for Contrast Enhancement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVContrastEnhancementDarkLevelGet [&DeviceID=<devId>]`

**Response**

```
{ "DLTVContrastEnhancementDarkLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }
```

- **DLTVContrastEnhancementWhiteLevelSet**

**Description**

Sets the white level for Contrast Enhancement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVContrastEnhancementWhiteLevelSet&Level=<float> [&DeviceID=<devId>]`

**Response**

```
{ "DLTVContrastEnhancementWhiteLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVContrastEnhancementWhiteLevelGet**

**Description**

Requests the current white level for Contrast Enhancement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVContrastEnhancementWhiteLevelGet [&DeviceID=<devId>]`

**Response**

```
{ "DLTVContrastEnhancementWhiteLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }
```

- **DLTVContrastAdjustPercentageSet**

**Description**

Sets the contrast adjust in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVContrastAdjustPercentageSet&Level=<float> [&DeviceID=<devId>]`

**Response**

```
{ "DLTVContrastAdjustPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVContrastAdjustPercentageGet**

**Description**

Gets the contrast adjust in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVContrastAdjustPercentageGet [&DeviceID=<devId>]`

**Response**

```
{ "DLTVContrastAdjustPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }
```

- **DLTVColorSaturationModeSet**

**Description**

Sets the color saturation mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVColorSaturationModeSet&Mode=<integer> [&DeviceID=<devId>]`

**Response**

```
{ "DLTVColorSaturationModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVColorSaturationModeGet**

**Description**

Gets the color saturation mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVColorSaturationModeGet [&DeviceID=<devId>]`

**Response**

```
{ "DLTVColorSaturationModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVPresetSet**

**Description**

Sets a specific scene preset by index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPresetSet&Preset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVPresetGet**

**Description**

Gets the index of the current scene preset

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPresetGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **DLTVPresetToggle**

**Description**

Toggles current scene preset

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPresetToggle[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPresetToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVPresetNumberGet**

**Description**

Returns the number of available scene presets

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPresetNumberGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPresetNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }
```

- **DLTVPresetNameByIdGet**

**Description**

Returns the name of a specific scene preset by index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPresetNameByIdGet&Preset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVPresetNameByIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **DLTVWideDynamicModeSet**

**Description**

Sets the wide dynamic mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWideDynamicModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWideDynamicModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWideDynamicModeGet**

**Description**

Gets the wide dynamic mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWideDynamicModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWideDynamicModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVWideDynamicSettingsSet**

**Description**

Sets the wide dynamic settings

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWideDynamicSettingsSet&Brightness=<integer>&Compensation=<integer>&CompensationLevel=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVWideDynamicSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWideDynamicSettingsGet**

**Description**

Gets the wide dynamic settings

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWideDynamicSettingsGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVWideDynamicSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Brightness" : <integer>, "Compensation" : <integer>, "CompensationLevel" : <integer> } } }
```

- **DLTVDefectivePixelCorrectionSet**

**Description**

Sets Defective Pixel Correction

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDefectivePixelCorrectionSet&DefectivePixelCorrection=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVDefectivePixelCorrectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDefectivePixelCorrectionGet**

**Description**

Request Defective Pixel Correction

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDefectivePixelCorrectionGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVDefectivePixelCorrectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DefectivePixelCorrection" : <integer> } } }
```

- **DLTVDefectivePixelCorrectionToggle**

**Description**

Toggles Defective Pixel Correction

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDefectivePixelCorrectionToggle[&DeviceID=<devId>]`

**Response**

```
{ "DLTVDefectivePixelCorrectionToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVNoiseSupressionPosition2D3DSet**

**Description**

Sets the level for Noise Supression when 2D/3D mode is active

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVNoiseSupressionPosition2D3DSet&Value2D=<integer>&Value3D=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVNoiseSupressionPosition2D3DSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVNoiseSupressionPosition2D3DGet**

**Description**

Requests the current levels of Noise Supression when in 2D/3D mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVNoiseSupressionPosition2D3DGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVNoiseSupressionPosition2D3DGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value2D" : <integer>, "Value3D" : <integer> } } }
```

- **DLTVHighLightCorrectionLevelSet**

**Description**

Sets the High Light Correction Level

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHighLightCorrectionLevelSet&Level=<integer>&Mask=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVHighLightCorrectionLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHighLightCorrectionLevelGet**

**Description**

Gets the High Light Correction Level

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHighLightCorrectionLevelGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVHighLightCorrectionLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <integer>, "Mask" : <integer> } } }
```

- **DLTVImageOrientationSet**

**Description**

Sets image orientation

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVImageOrientationSet&ImageOrientation=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVImageOrientationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVImageOrientationGet**

**Description**

Requests state of image orientation

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVImageOrientationGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVImageOrientationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ImageOrientation" : <integer> } } }
```

- **DLTVWideDynamicRangeValueSet**

**Description**

Sets the WDR

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWideDynamicRangeValueSet&WDRValue=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWideDynamicRangeValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWideDynamicRangeValueGet**

**Description**

Requests the WDR

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWideDynamicRangeValueGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWideDynamicRangeValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "WDRValue" : <float> } } }
```

- **DLTVWDRPercentageSet**

**Description**

Sets the WDR

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWDRPercentageSet&Percentage=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWDRPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWDRPercentageGet**

**Description**

Requests the WDR

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWDRPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWDRPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVNoiseSupressionPercentageSet**

**Description**

Sets the level for Noise Supression in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVNoiseSupressionPercentageSet&Percentage=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVNoiseSupressionPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVNoiseSupressionPercentageGet**

**Description**

Requests the current level of Noise Supression in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVNoiseSupressionPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVNoiseSupressionPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **DLTVAStoreUserScenePreset**

**Description**

Store a User Scene Preset with the current settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAStoreUserScenePreset&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVAStoreUserScenePreset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRemoveUserScenePreset**

**Description**

Remove a User Scene Preset by index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRemoveUserScenePreset&Preset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVRemoveUserScenePreset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTitleOnOffSet**

**Description**

Sets title on/off

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTitleOnOffSet&Title=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVTitleOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTitleOnOffGet**

**Description**

Requests title state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTitleOnOffGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVTitleOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Title" : <integer> } } }
```

- **DLTVTitleSettingsSet**

**Description**

Sets title settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTitleSettingsSet&VerticalPosition=<integer>&HorizontalPosition=<integer>&Color=<integer>&Blink=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVTitleSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTitleClear**

**Description**

Clears title

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTitleClear[&DeviceID=<devId>]`

**Response**

```
{ "DLTVTitleClear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVTitleCharactersSet**

**Description**

Sets the tile characters

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVTitleCharactersSet&Index=<integer>&Characters=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVTitleCharactersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTPictureInPictureSet**

**Description**

Sets the PIP mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPictureInPictureSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTPictureInPictureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTPictureInPictureGet**

**Description**

Gets the PIP mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPictureInPictureGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTPictureInPictureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTPictureInPicturePositionSet**

**Description**

Sets the PIP position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPictureInPicturePositionSet&Position=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTPictureInPicturePositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTPictureInPicturePositionGet**

**Description**

Gets the PIP position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPictureInPicturePositionGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTPictureInPicturePositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Position" : <integer> } } }
```

- **DLTCrosshairSet**

**Description**

Sets the Crosshair

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTCrosshairSet&Crosshair=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTCrosshairSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTCrosshairGet**

**Description**

Gets the Crosshair Status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTCrosshairGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTCrosshairGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Crosshair" : <integer> } } }
```

- **DLTCrosshairToggle**

**Description**

Toggles the Crosshair

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTCrosshairToggle[&DeviceID=<devId>]`

**Response**

```
{ "DLTCrosshairToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBlendThermalVideoSet**

**Description**

Sets the blending level in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBlendThermalVideoSet&Level=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVBlendThermalVideoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBlendThermalVideoGet**

**Description**

Gets the Blending level in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBlendThermalVideoGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVBlendThermalVideoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }
```

- **DLTVAutoCameraSet**

**Description**

Sets camera to auto or manual. 0=manual,1=auto

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoCameraSet&AutoCamera=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoCameraSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoCameraGet**

**Description**

Requests camera setting. 0=manual,1=auto

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoCameraGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoCameraGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoCamera" : <integer> } } }
```

- **DLTCameraSelectionSet**

**Description**

Selects camera mode. 0=intensified,1=b/w,2=color

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTCameraSelectionSet&CameraSelection=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTCameraSelectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTCameraSelectionGet**

**Description**

Requests selected camera. 0=intensified,1=b/w,2=color

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTCameraSelectionGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTCameraSelectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "CameraSelection" : <integer> } } }
```

- **DLTVCChangeLevelICCDBWSet**

**Description**

Sets change level between ICCD and Black&White

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCChangeLevelICCDBWSet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVChangeLevelICCDBWSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVChangeLevelBWColorSet**

**Description**

Sets change level between Color and Black&White

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVChangeLevelBWColorSet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVChangeLevelBWColorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIntensifierModeSet**

**Description**

Sets intensifier mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIntensifierModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIntensifierModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVIntensifierModeGet**

**Description**

Requests intensifier mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVIntensifierModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVIntensifierModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVHighResolutionModeSet**

**Description**

Selects High Resolution Mode.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHighResolutionModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVHighResolutionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHighResolutionModeGet**

**Description**

Requests High Resolution Mode.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHighResolutionModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVHighResolutionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVHDModeSet**

**Description**

Selects HD Mode, resolution and frequency.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHDModeSet&Mode=<integer>&Resolution=<integer>&Frequency=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVHDModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHDModeGet**

**Description**

Requests HD Mode, resolution and frequency.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHDModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVHDModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer>, "Resolution" : <integer>, "Frequency" : <integer> } } }
```

- **DLTLLVDSModeSet**

**Description**

Selects LVDS Mode.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLVDSModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLVDSModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLVDSModeGet**

**Description**

Requests LVDS Mode.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLVDSModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLVDSModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVHighSensitivityModeSet**

**Description**

Selects High Sensitivity Mode.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHighSensitivityModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVHighSensitivityModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVHighSensitivityModeGet**

**Description**

Requests High Sensitivity Mode.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHighSensitivityModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVHighSensitivityModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVOutputModeSet**

**Description**

Selects Output Mode.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVOutputModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVOutputModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVOutputModeGet**

**Description**

Requests Output Mode.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVOutputModeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVOutputModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVGatingSet**

**Description**

Sets gating on/off. 0=off,1=on

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingSet&Gating=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGatingGet**

**Description**

Requests gating value. 0=off,1=on

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gating" : <integer> } } }
```

- **DLTVAutoGatingSet**

**Description**

Sets auto gating value. 0=manual,1=auto

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoGatingSet&AutoGating=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoGatingSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVAutoGatingGet**

**Description**

Requests auto gating value. 0=manual,1=auto

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVAutoGatingGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVAutoGatingGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoGating" : <integer> } } }
```

- **DLTVGatingIncrement**

**Description**

Increases auto gating

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingIncrement[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGatingDecrement**

**Description**

Decreases auto gating

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingDecrement[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGatingStop**

**Description**

Stops auto gating changes

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingStop[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGatingTimeSet**

**Description**

Sets gating time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingTimeSet&GatingTime=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGatingTimeGet**

**Description**

Requests gating time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GatingTime" : <longint> } } }
```

- **DLTVGatingTimePercentageSet**

**Description**

Sets gating time percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVGatingTimePercentageSet&GatingTimePercentage=<float>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVGatingTimePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVGatingTimePercentageGet**

**Description**

Requests gating time percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVGatingTimePercentageGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVGatingTimePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", "GatingTimePercentage" : <float> } }
```

- **DLTVLaserOnOffSet**

**Description**

Sets laser on/off. 0=off,1=on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserOnOffSet&Laser=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserOnOffGet**

**Description**

Requests laser value. 0=off,1=on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", "Laser" : <integer> } }
```

- **DLTVLaserInterlockOnOffSet**

**Description**

Sets laser interlock on/off. 0=off,1=on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserInterlockOnOffSet&LaserInterlock=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserInterlockOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserInterlockOnOffGet**

**Description**

Requests laser interlock value. 0=off,1=on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserInterlockOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserInterlockOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", "Laser_Interlock" : <integer> } }
```

- **DLTVLaserDivergenceIncrement**

**Description**

Increases laser divergence

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserDivergenceIncrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserDivergenceIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserDivergenceDecrement**

**Description**

Decreases laser divergence

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserDivergenceDecrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserDivergenceDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserDivergenceStop**

**Description**

Stops laser divergence changes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserDivergenceStop[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserDivergenceStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserIntensityIncrement**

**Description**

Increases laser intensity

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserIntensityIncrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserIntensityIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserIntensityDecrement**

**Description**

Decreases laser intensity

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserIntensityDecrement[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserIntensityDecrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLaserIntensityStop**

**Description**

Stops laser intensity changes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLaserIntensityStop[&DeviceID=<devId>]

**Response**

```
{ "DLTVLaserIntensityStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVStabilizationModeSet**

**Description**

Sets stabilization mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVStabilizationModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVStabilizationModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVStabilizationModeGet**

**Description**

Requests stabilization mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVStabilizationModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVStabilizationModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **DLTVStabilizationParamSet**

**Description**

Sets stabilization parameter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVStabilizationParamSet&StabParam=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVStabilizationParamSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVStabilizationParamGet**

**Description**

Requests stabilization parameter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVStabilizationParamGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVStabilizationParamGet": { "Return Code" : "<code>", "Return String" : "<string>", { "StabParam" : <integer> } } }
```

- **DLTVStabilizationParamIncrement**

**Description**

Sets stabilization parameter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVStabilizationParamIncrement&ParamInc=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVStabilizationParamIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVStabilizationParamPercentageSet**

**Description**

Sets stabilization parameter in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVStabilizationParamPercentageSet&StabParamPercentage=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVStabilizationParamPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVStabilizationParamPercentageGet**

**Description**

Requests stabilization parameter in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVStabilizationParamPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVStabilizationParamPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", "StabParamPercentage" : <float> } }
```

- **DLTVDescintillationSet**

**Description**

Sets descintillation mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDescintillationSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDescintillationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDescintillationGet**

**Description**

Requests descintillation mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDescintillationGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDescintillationGet": { "Return Code" : "<code>", "Return String" : "<string>", "Mode" : <integer> } }
```

- **DLTVDescintillationToggle**

**Description**

Toggles the De-Scintillation value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDescintillationToggle[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDescintillationToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDescintillationParameterSet**

**Description**

Sets the De-Scintillation Parameter value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDescintillationParameterSet&Parameter=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDescintillationParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVDescintillationParameterGet**

**Description**

Gets the De-Scintillation Parameter value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDescintillationParameterGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVDescintillationParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", "Parameter" : <integer> } }
```

- **DLTVDescintillationLevelPercentageSet**

**Description**

Sets the value of the Descintillation Level percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationLevelPercentageSet&Level=<float>[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationLevelPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DLTVDescintillationLevelPercentageGet**

**Description**

Gets the value of the Descintillation Level percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationLevelPercentageGet[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationLevelPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }

- **DLTVDescintillationROIPresetSet**

**Description**

Sets the De-Scintillation ROI Preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationROIPresetSet&Parameter=<integer>[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationROIPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DLTVDescintillationROIPresetGet**

**Description**

Gets the De-Scintillation ROI Preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationROIPresetGet[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationROIPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameter" : <integer> } } }

- **DLTVDescintillationFilterAvailableGet**

**Description**

Requests descintillation filter availability

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationFilterAvailableGet[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationFilterAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }

- **DLTVDescintillationOnOffSet**

**Description**

Sets descintillation power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationOnOffSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DLTVDescintillationOnOffGet**

**Description**

Requests descintillation power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDescintillationOnOffGet[&DeviceID=<devId>]

**Response**

{ "DLTVDescintillationOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }

- **DLTVDescintillationOnOffToggle**

**Description**

Toggles the De-Scintillation power value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVDescintillationOnOffToggle[&DeviceID=<devId>]`

**Response**

```
{ "DLTVDescintillationOnOffToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVStabilizationModeToggle**

**Description**

Toggles stabilization mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVStabilizationModeToggle[&DeviceID=<devId>]`

**Response**

```
{ "DLTVStabilizationModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVCameraDefaultsSet**

**Description**

Sets current values as defaults for the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCameraDefaultsSet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVCameraDefaultsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVCameraDefaultsRestore**

**Description**

Restores the default values for the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCameraDefaultsRestore[&DeviceID=<devId>]`

**Response**

```
{ "DLTVCameraDefaultsRestore": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVCameraReset**

**Description**

Resets the camera device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCameraReset[&DeviceID=<devId>]`

**Response**

```
{ "DLTVCameraReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVCameraInfoGet**

**Description**

Request the info text from the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVCameraInfoGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVCameraInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : "<string>" } } }
```

- **DLTVBootFromSet**

**Description**

Sets Boot From Options

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBootFromSet&BootFrom=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVBootFromSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBootFromGet**

**Description**

Request Boot From Options

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVBootFromGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVBootFromGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BootFrom" : "<integer>" } } }
```

- **DLTVLoadFromUser**

**Description**

Loads the user configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLoadFromUser[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLoadFromUser": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWiperSet**

**Description**

Sets wiper state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWiperSet&Wiper=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWiperSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWiperGet**

**Description**

Requests wiper state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWiperGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWiperGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Wiper" : <integer> } } }
```

- **DLTVWasherSet**

**Description**

Sets washer state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWasherSet&Washer=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWasherSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWasherGet**

**Description**

Requests washer state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWasherGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWasherGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Washer" : <integer> } } }
```

- **DLTVWashAndWipe**

**Description**

Starts the the wash and wipe process

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWashAndWipe[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWashAndWipe": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWasherAvailableSet**

**Description**

Sets if washer is available or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWasherAvailableSet&Available=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWasherAvailableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWasherAvailableGet**

**Description**

Gets if washer is available or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVWasherAvailableGet[&DeviceID=<devId>]
```

**Response**

```
{ "DLTVWasherAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **DLTVWiperAvailableSet**

**Description**

Sets if wiper is available or not

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWiperAvailableSet&Available=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVWiperAvailableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWiperAvailableGet**

**Description**

Gets if wiper is available or not

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWiperAvailableGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWiperAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **DLTVWasherOnTimeSet**

**Description**

Sets how long the washer is on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWasherOnTimeSet&OnTime=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVWasherOnTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVWasherOnTimeGet**

**Description**

Gets how long the washer is on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWasherOnTimeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWasherOnTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnTime" : <integer> } } }
```

- **DLTVCropConfigGet**

**Description**

Requests crop configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVCropConfigGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVCropConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Left" : <float>, "Right" : <float>, "Top" : <float>, "Bottom" : <float> } } }
```

- **DLTVVideoSnapshotURLGet**

**Description**

Returns the URL to get a video snapshot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVVideoSnapshotURLGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVVideoSnapshotURLGet": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string> } } }
```

- **DLTVRangeGet**

**Description**

Requests range of the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVRangeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Range" : <longint> } } }
```

- **DLTPresetStore**

**Description**

Stores preset position at given index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTPresetStore&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTPresetStore": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTPresetGoto**

**Description**

Goes to preset position at given index

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVPresetGoto&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVPresetGoto": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVRawCommandSend**

**Description**

Sends a command to the DLT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DLTVRawCommandASCIISend**

**Description**

Sends a command to the DLT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DLTPresetSelectedGet**

**Description**

Requests selected preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPresetSelectedGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTPresetSelectedGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **DLTPresetClear**

**Description**

Clears a specified preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTPresetClear&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DLTPresetClear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVLensRawCommandSend**

**Description**

Sends a command to the Lens attached to the DLT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLensRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLensRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DLTVLensRawCommandASCIISend**

**Description**

Sends a command to the Lens attached to the DLT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVLensRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DLTVLensRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DLTVHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DLTVHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "DLTVHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **DLTVBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBITExecute[&DeviceID=<devId>]

**Response**

```
{ "DLTVBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBITAbort**

**Description**

Aborts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBITAbort[&DeviceID=<devId>]

**Response**

```
{ "DLTVBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVBITResult[&DeviceID=<devId>]

**Response**

```
{ "DLTVBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **DLTVLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Zoom" : <float>, "Zoom_pctg" : <float>, "Focus_pctg" : <float>, "AGC" : <integer>, "Autoiris" : <integer>, "Iris_pctg" : <float>, "Filter_index" : <integer>, "Wiper" : <integer>, "Extender" : <integer>, "Autofocus" : <integer>, "Digital_Zoom" : <integer>, "Enhancer" : <integer>, "Slave" : <integer>, "ActiveSource" : <integer>, "Frame_Size_X" : <integer>, "Frame_Size_Y" : <integer>, "Power" : <integer>, "Gain_Percentage" : <float>, "Range" : <integer>, "Freeze" : <integer>, "Orientation" : <integer>, "Video_Masked" : <integer>, "Integration_Time" : <float>, "Frame_Time" : <float>, "Integration_Time_pctg" : <float>, "Frame_Time_pctg" : <float>, "EStab" : <integer>, "Descintillation" : <integer>, "DescintillationLevel" : <float>, "DZoom_Mag_Pctg" : <float> } } }
```

- **DLTVLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "DLTVLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **DLTVDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DLTVDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DLTVWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWebSettingsSet&Settings=<string>[&DeviceID=<devId>]

**Response**

```
{ "DLTVWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **DLTVWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWebSettingsGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **DLTVWebSettingsSchemaGet**

**Description**

Requests the JSON schema of web settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVWebSettingsSchemaGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVWebSettingsSchemaGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **DLTVRestoreFactoryDefault**

**Description**

Restores factory default settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVRestoreFactoryDefault[&DeviceID=<devId>]

**Response**

```
{ "DLTVRestoreFactoryDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVExpertModeSet**

**Description**

Sets the configuration for the Expert Communications Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExpertModeSet&OnOff=<integer>&Type=<integer>&ETX=<integer>&ERX=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVExpertModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DLTVExpertModeGet**

**Description**

Requests the configuration for the Expert Communications Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExpertModeGet[&DeviceID=<devId>]

**Response**

```
{ "DLTVExpertModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Type" : <integer>, "ETX" : <integer>, "ERX" : <integer> } } }
```

- **DLTVExpertDataWrite**

**Description**

In Expert Mode, transmits raw data and waits for the answer

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExpertDataWrite&CountTx=<integer>&TimeoutRx=<integer>&DataTx=<string>[&DeviceID=<devId>]

**Response**

```
{ "DLTVExpertDataWrite": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **DLTVExpertDataRead**

**Description**

In Expert Mode, reads raw data from the device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DLTVExpertDataRead&TimeoutRx=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DLTVExpertDataRead": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **IRFieldOfViewSet**

**Description**

Sets field of view

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFieldOfViewSet&FOV=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRFieldOfViewSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFieldOfViewGet**

**Description**

Requests field of view

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFieldOfViewGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFieldOfViewGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FOV" : <integer> } } }
```

- **IRFieldOfViewDegreesSet**

**Description**

Sets field of view in degrees

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFieldOfViewDegreesSet&FOV_Degrees=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRFieldOfViewDegreesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFieldOfViewDegreesGet**

**Description**

Requests value of field of view in degrees

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFieldOfViewDegreesGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFieldOfViewDegreesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FOV_Degrees" : <float> } } }
```

- **IRZoomPercentageSet**

**Description**

Sets the value of the zoom in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomPercentageSet&Zoom=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRZoomPercentageGet**

**Description**

Gets the value of the zoom in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom" : <float> } } }
```

- **IRZoomRatePercentageSet**

**Description**

Sets the value of the zoom rate in percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomRatePercentageSet&ZoomRate=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomRatePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRZoomRatePercentageGet**

**Description**

Gets the value of the zoom rate in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomRatePercentageGet[&DeviceID=<devId>]`  
**Response**  
`{ "IRZoomRatePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ZoomRate" : <float> } } }`

- **IRZoomIn**

**Description**

Zooms in

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomIn[&DeviceID=<devId>]`

**Response**

`{ "IRZoomIn": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRZoomOut**

**Description**

Zooms out

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomOut[&DeviceID=<devId>]`

**Response**

`{ "IRZoomOut": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRZoomStop**

**Description**

Stops zoom movement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomStop[&DeviceID=<devId>]`

**Response**

`{ "IRZoomStop": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRZoomSlaveSet**

**Description**

If Slave\_Zoom is 1, slaves IR camera zoom to DLT camera FOV. If Slave\_Zoom is 0, disables slave zoom

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomSlaveSet&Slave_Zoom=<integer>[&DeviceID=<devId>]`

**Response**

`{ "IRZoomSlaveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRZoomSlaveGet**

**Description**

Requests state of slave zoom

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomSlaveGet[&DeviceID=<devId>]`

**Response**

`{ "IRZoomSlaveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Slave_Zoom" : <integer> } } }`

- **IRZoomExtenderSet**

**Description**

Sets Zoom Extender on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomExtenderSet&Zoom_Extender=<integer>[&DeviceID=<devId>]`

**Response**

`{ "IRZoomExtenderSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRZoomExtenderGet**

**Description**

Requests value of Zoom Extender

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomExtenderGet[&DeviceID=<devId>]`

**Response**

`{ "IRZoomExtenderGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom_Extender" : <integer> } } }`

- **IRFOVMagnificationSet**

**Description**

Changes the FOV to achieve the requested magnification

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFOVMagnificationSet&Magnification=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRFOVMagnificationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFOVMagnificationGet**

**Description**

Requests current magnification (maxFOV/currentFOV)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFOVMagnificationGet[&DeviceID=<devId>]

**Response**

```
{ "IRFOVMagnificationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Magnification" : <float> } } }
```

- **IRFOVRangeGet**

**Description**

Requests FOV achievable range (optical and electronic)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFOVRangeGet[&DeviceID=<devId>]

**Response**

```
{ "IRFOVRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Min_FOV" : <float>, "Max_FOV" : <float> } } }
```

- **IRZoomMoveTimeoutSet**

**Description**

Sets the time to stop zoom continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRZoomMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRZoomMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRZoomMoveTimeoutGet**

**Description**

Request time to stop zoom continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRZoomMoveTimeoutGet[&DeviceID=<devId>]

**Response**

```
{ "IRZoomMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } } }
```

- **IRZoomSlaveToggle**

**Description**

Toggles zoom slave mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRZoomSlaveToggle[&DeviceID=<devId>]

**Response**

```
{ "IRZoomSlaveToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROpticalZoomMagnificationSet**

**Description**

Sets optical zoom magnification

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROpticalZoomMagnificationSet&Optical\_Zoom=<float>[&DeviceID=<devId>]

**Response**

```
{ "IROpticalZoomMagnificationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROpticalZoomMagnificationGet**

**Description**

Requests current magnification value for optical zoom

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROpticalZoomMagnificationGet[&DeviceID=<devId>]

**Response**

```
{ "IROpticalZoomMagnificationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Optical_Zoom" : <float> } } }
```

- **IROpticalZoomPercentageSet**

**Description**

Sets optical zoom percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROpticalZoomPercentageSet&Optical_Zoom_Percentage=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IROpticalZoomPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROpticalZoomPercentageGet**

**Description**

Requests current percentage value for optical zoom

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROpticalZoomPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "IROpticalZoomPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", "Optical_Zoom_Percentage" : <float> } }
```

- **IRZoomCountsSet**

**Description**

Sets value of Zoom in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomCountsSet&Zoom=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRZoomCountsGet**

**Description**

Requests value of Zoom in counts

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomCountsGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", "Zoom" : <longint> } }
```

- **IRZoomCombinedControlEnableSet**

**Description**

Enables/disables combined electronic/optical zoom

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomCombinedControlEnableSet&Enabled=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomCombinedControlEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRZoomCombinedControlEnableGet**

**Description**

Requests current status of combined electronic/optical zoom control

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomCombinedControlEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomCombinedControlEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", "Enabled" : <integer> } }
```

- **IRZoomIncrementPercentage**

**Description**

Increments zoom value in percentage. Use negative value to decrement

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRZoomIncrementPercentage&Increment=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRZoomIncrementPercentage": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusPercentageSet**

**Description**

Sets value of focus in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusPercentageSet&Focus=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRFocusPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusPercentageGet**

**Description**

Requests value of focus in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "IRFocusPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus" : <float> } } }
```

- **IRFocusCountsSet**

**Description**

Requests value of focus in counts

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusCountsSet&Focus=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRFocusCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusCountsGet**

**Description**

Requests value of focus in counts

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusCountsGet[&DeviceID=<devId>]`

**Response**

```
{ "IRFocusCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus" : <integer> } } }
```

- **IRAutoFocusSet**

**Description**

Sets autofocus on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAutoFocusSet&AutoFocus=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRAutoFocusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAutoFocusGet**

**Description**

Requests state of autofocus

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAutoFocusGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAutoFocusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoFocus" : <integer> } } }
```

- **IRFocusFar**

**Description**

Moves focus to farthest position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusFar[&DeviceID=<devId>]`

**Response**

```
{ "IRFocusFar": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusNear**

**Description**

Moves focus to nearest position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusNear[&DeviceID=<devId>]`

**Response**

```
{ "IRFocusNear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusStop**

**Description**

Stops focus movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusStop[&DeviceID=<devId>]

**Response**

{ "IRFocusStop": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFocusRatePercentageSet**

**Description**

Sets focus rate in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusRatePercentageSet&Rate=<float>[&DeviceID=<devId>]

**Response**

{ "IRFocusRatePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFocusRatePercentageGet**

**Description**

Requests value of focus in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusRatePercentageGet[&DeviceID=<devId>]

**Response**

{ "IRFocusRatePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rate" : <float> } } }

- **IRFocusInfinitySet**

**Description**

Sets Focus Infinity on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusInfinitySet&State=<integer>[&DeviceID=<devId>]

**Response**

{ "IRFocusInfinitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFocusInfinityGet**

**Description**

Requests state of Focus Infinity

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusInfinityGet[&DeviceID=<devId>]

**Response**

{ "IRFocusInfinityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }

- **IRFocusMoveTimeoutSet**

**Description**

Sets the time to stop focus continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]

**Response**

{ "IRFocusMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFocusMoveTimeoutGet**

**Description**

Request time to stop focus continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusMoveTimeoutGet[&DeviceID=<devId>]

**Response**

{ "IRFocusMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } } }

- **IRFocusDistanceSet**

**Description**

Request focus distance

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusDistanceSet&Distance=<float>[&DeviceID=<devId>]

**Response**

{ "IRFocusDistanceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFocusDistanceGet**

**Description**

Request focus distance

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusDistanceGet[&DeviceID=<devId>]

**Response**

```
{ "IRFocusDistanceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Distance" : <float> } } }
```

- **IRFocusROIParamsSet**

**Description**

Sets ROI parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusROIParamsSet&XPos=<integer>&YPos=<integer>&Width=<integer>&Height=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFocusROIParamsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusROIParamsGet**

**Description**

Requests parameters of active ROI

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusROIParamsGet[&DeviceID=<devId>]

**Response**

```
{ "IRFocusROIParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XPos" : <integer>, "YPos" : <integer>, "Width" : <integer>, "Height" : <integer> } } }
```

- **IRFocusROIParamsPercentageSet**

**Description**

Sets ROI parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusROIParamsPercentageSet&XPos=<float>&YPos=<float>&Width=<float>&Height=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRFocusROIParamsPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusROIParamsPercentageGet**

**Description**

Requests parameters of active ROI

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusROIParamsPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRFocusROIParamsPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XPos" : <float>, "YPos" : <float>, "Width" : <float>, "Height" : <float> } } }
```

- **IRFocusMetricGet**

**Description**

Requests value of focus metric

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusMetricGet[&DeviceID=<devId>]

**Response**

```
{ "IRFocusMetricGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FocusMetric" : <float> } } }
```

- **IRFocusCountsLongSet**

**Description**

Requests long value of focus in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusCountsLongSet&Focus=<longint>[&DeviceID=<devId>]

**Response**

```
{ "IRFocusCountsLongSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFocusCountsLongGet**

**Description**

Requests long value of focus in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFocusCountsLongGet[&DeviceID=<devId>]

**Response**

```
{ "IRFocusCountsLongGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Focus" : <longint> } } }
```

**• IRFocusAvailableGet****Description**

Returns whether focus is available or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusAvailableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFocusAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

**• IRFocusROINamesGet****Description**

Requests names of focus ROIs in camera

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusROINamesGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFocusROINamesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ROI_Names" : <string> } } }
```

**• IRFocusActiveROISet****Description**

Sets given focus ROI as active

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusActiveROISet&Active_ROI=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRFocusActiveROISet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRFocusActiveROIGet****Description**

Requests name of focus active ROI

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFocusActiveROIGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFocusActiveROIGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active_ROI" : <string> } } }
```

**• IRIntegrationTimeSet****Description**

Sets integration time

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIntegrationTimeSet&Integration_Time=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIntegrationTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRIntegrationTimeGet****Description**

Requests value of integration time

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIntegrationTimeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRIntegrationTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Integration_Time" : <float> } } }
```

**• IRDigitalVideoOutputSet****Description**

Sets digital video output mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDigitalVideoOutputSet&DigitalVideoOutput=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRDigitalVideoOutputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRDigitalVideoOutputGet****Description**

Requests value of digital video output mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDigitalVideoOutputGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDigitalVideoOutputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DigitalVideoOutput" : <integer> } } }
```

- **IRExternalSyncModeSet**

**Description**

Sets external sync mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRExternalSyncModeSet&ExternalSyncMode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRExternalSyncModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRExternalSyncModeGet**

**Description**

Requests external sync mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRExternalSyncModeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRExternalSyncModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ExternalSyncMode" : <integer> } } }
```

- **IRNUCTableSet**

**Description**

Sets NUC table using index number

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNUCTableSet&NUC_Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRNUCTableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCTableGet**

**Description**

Requests index number of active NUC table

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNUCTableGet[&DeviceID=<devId>]`

**Response**

```
{ "IRNUCTableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "NUC_Index" : <integer> } } }
```

- **IRNUCCalibrationStart**

**Description**

Initiates a calibration routine

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNUCCalibrationStart&Calibration_type=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRNUCCalibrationStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCCalibrationContinue**

**Description**

Continues calibration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNUCCalibrationContinue[&DeviceID=<devId>]`

**Response**

```
{ "IRNUCCalibrationContinue": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCCalibrationAbort**

**Description**

Aborts a calibration routine

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNUCCalibrationAbort[&DeviceID=<devId>]`

**Response**

```
{ "IRNUCCalibrationAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCLoadedNamesGet**

**Description**

Requests names of loaded NUCs

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCLoadedNamesGet[&DeviceID=<devId>]

**Response**

```
{ "IRNUCLoadedNamesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "NUC_Names" : <string> } } }
```

- **IRNUCTableToggle**

**Description**

Toggles NUC Table

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCTableToggle[&DeviceID=<devId>]

**Response**

```
{ "IRNUCTableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCTableCountGet**

**Description**

Requests number of available NUC Tables

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCTableCountGet[&DeviceID=<devId>]

**Response**

```
{ "IRNUCTableCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **IRNUCTableNameGet**

**Description**

Requests name of the required NUC Table

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCTableNameGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRNUCTableNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **IRHighPerformanceSet**

**Description**

Sets high performance to on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRHighPerformanceSet&HighPerformance=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRHighPerformanceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRHighPerformanceGet**

**Description**

Requests high performance on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRHighPerformanceGet[&DeviceID=<devId>]

**Response**

```
{ "IRHighPerformanceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HighPerformance" : <integer> } } }
```

- **IRNUCTableSave**

**Description**

Saves data for current NUC Table

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCTableSave[&DeviceID=<devId>]

**Response**

```
{ "IRNUCTableSave": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCFramesSet**

**Description**

Sets the number of frames to average

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCFramesSet&Frames=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRNUCFramesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNUCFramesGet**

**Description**

Gets the number of frames to average

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNUCFramesGet[&DeviceID=<devId>]

**Response**

```
{ "IRNUCFramesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Frames" : <integer> } } }
```

- **IRGainModeSet**

**Description**

Sets Gain Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRGainModeSet&Gain\_Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRGainModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGainModeGet**

**Description**

Requests Gain Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRGainModeGet[&DeviceID=<devId>]

**Response**

```
{ "IRGainModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain_Mode" : <integer> } } }
```

- **IRAutoGainHighToLowIntensityThresholdSet**

**Description**

Sets value of High To Low Intensity Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAutoGainHighToLowIntensityThresholdSet&Threshold=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRAutoGainHighToLowIntensityThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAutoGainHighToLowIntensityThresholdGet**

**Description**

Requests value of High To Low Intensity Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAutoGainHighToLowIntensityThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "IRAutoGainHighToLowIntensityThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <float> } } }
```

- **IRAutoGainHighToLowPopulationThresholdSet**

**Description**

Sets value of High To Low Population Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAutoGainHighToLowPopulationThresholdSet&Threshold=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRAutoGainHighToLowPopulationThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAutoGainHighToLowPopulationThresholdGet**

**Description**

Requests value of High To Low Population Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAutoGainHighToLowPopulationThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "IRAutoGainHighToLowPopulationThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <float> } } }
```

- **IRAutoGainLowToHighPopulationThresholdSet**

**Description**

Sets value of Low To High Population Threshold

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAutoGainLowToHighPopulationThresholdSet&Thresho
ld=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRAutoGainLowToHighPopulationThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAutoGainLowToHighPopulationThresholdGet**

**Description**

Requests value of Low To High Population Threshold

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAutoGainLowToHighPopulationThresholdGet[&DeviceI
D=<devId>]
```

**Response**

```
{ "IRAutoGainLowToHighPopulationThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", {
"Threshold" : <float> } } }
```

- **IRLowContrastNUCSet**

**Description**

enable low contrast NUC

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLowContrastNUCSet&Enable=<integer>[&DeviceID=<
devId>]
```

**Response**

```
{ "IRLowContrastNUCSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLowContrastNUCGet**

**Description**

Requests the low contrast NUC state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLowContrastNUCGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRLowContrastNUCGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRLowContrastNUCToggle**

**Description**

toggles low contrast NUC

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLowContrastNUCToggle[&DeviceID=<devId>]
```

**Response**

```
{ "IRLowContrastNUCToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDPKEnableSet**

**Description**

enable or disable dead pixel correction filter

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKEnableSet&Enable=<integer>[&DeviceID=<devId
>]
```

**Response**

```
{ "IRDPKEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDPKEnableGet**

**Description**

returns current state of dead pixel correction filter

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRDPKEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRDPKDampingSet**

**Description**

Sets Damping parameters for dead pixel correction filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKDampingSet&Low=<integer>&Medium=<integer>&High=<integer>&NoDetection=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRDPKDampingSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDPKDampingGet**

**Description**

Returns Damping parameters for dead pixel correction filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKDampingGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDPKDampingGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Low" : <integer>, "Medium" : <integer>, "High" : <integer>, "NoDetection" : <integer> } } }
```

- **IRDPKSpatialThresholdSet**

**Description**

Sets Spatial Threshold parameters for dead pixel correction filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKSpatialThresholdSet&Low=<integer>&Medium=<integer>&High=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRDPKSpatialThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDPKSpatialThresholdGet**

**Description**

Returns Spatial Threshold parameters for dead pixel correction filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKSpatialThresholdGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDPKSpatialThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Low" : <integer>, "Medium" : <integer>, "High" : <integer> } } }
```

- **IRDPKDeadPixelValueSet**

**Description**

Sets dead pixel value for dead pixel correction filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKDeadPixelValueSet&Value=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRDPKDeadPixelValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDPKDeadPixelValueGet**

**Description**

Returns dead pixel value for dead pixel correction filter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDPKDeadPixelValueGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDPKDeadPixelValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Low" : <integer>, "Medium" : <integer>, "High" : <integer> } } }
```

- **IRGainPercentageSet**

**Description**

Sets value of gain in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGainPercentageSet&Gain=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRGainPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGainPercentageGet**

**Description**

Requests value of gain in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGainPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "IRGainPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <float> } } }
```

- **IRGainCountsSet**

**Description**

Sets value of gain in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRGainCountsSet&Gain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRGainCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGainCountsGet**

**Description**

Requests value of gain in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRGainCountsGet[&DeviceID=<devId>]

**Response**

```
{ "IRGainCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <integer> } } }
```

- **IROffsetPercentageSet**

**Description**

Sets value of offset in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROffsetPercentageSet&Offset=<float>[&DeviceID=<devId>]

**Response**

```
{ "IROffsetPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROffsetPercentageGet**

**Description**

Requests value of offset in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROffsetPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IROffsetPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Offset" : <float> } } }
```

- **IROffsetCountsSet**

**Description**

Sets value of offset in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROffsetCountsSet&Offset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IROffsetCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROffsetCountsGet**

**Description**

Requests value of offset in counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROffsetCountsGet[&DeviceID=<devId>]

**Response**

```
{ "IROffsetCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Offset" : <integer> } } }
```

- **IRAGCSet**

**Description**

Sets AGC value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCSet&Agc=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRAGCSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCGet**

**Description**

Requests value of AGC

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCGet[&DeviceID=<devId>]

**Response**

```
{ "IRAGCGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Agc" : <integer> } } }
```

- **IRGainIncrement**

**Description**

Increments gain (increment value can be negative)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRGainIncrement&Gain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRGainIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROffsetIncrement**

**Description**

Increments offset (increment value can be negative)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROffsetIncrement&Offset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IROffsetIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCLowLimitPercentageSet**

**Description**

Sets value of AGC low limit percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCLowLimitPercentageSet&LowLimit=<longint>[&DeviceID=<devId>]

**Response**

```
{ "IRAGCLowLimitPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCLowLimitPercentageGet**

**Description**

Requests value of AGC low limit percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCLowLimitPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRAGCLowLimitPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LowLimit" : <longint> } } }
```

- **IRAGCHighLimitPercentageSet**

**Description**

Sets value of AGC high limit percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCHighLimitPercentageSet&HighLimit=<longint>[&DeviceID=<devId>]

**Response**

```
{ "IRAGCHighLimitPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCHighLimitPercentageGet**

**Description**

Requests value of AGC high limit percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCHighLimitPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRAGCHighLimitPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HighLimit" : <longint> } } }
```

- **IRAGCMaxGainSet**

**Description**

Sets value of maximum gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCMaxGainSet&MaxGain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRAGCMaxGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCMaxGainGet**

**Description**

Requests value of maximum gain

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCMaxGainGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCMaxGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MaxGain" : <integer> } } }
```

- **IRAGCPpseudoGainSet**

**Description**

Sets value of pseudo gain

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCPpseudoGainSet&Pseudo_Gain=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCPpseudoGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCPpseudoGainGet**

**Description**

Requests value of pseudo gain

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCPpseudoGainGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCPpseudoGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Pseudo_Gain" : <longint> } } }
```

- **IRAGCFILTERRateSet**

**Description**

Sets value of filter rate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCFILTERRateSet&Filter_Rate=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCFILTERRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCFILTERRateGet**

**Description**

Requests value of filter rate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCFILTERRateGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCFILTERRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter_Rate" : <longint> } } }
```

- **IRAGCROINamesGet**

**Description**

Requests names of ROIs in camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCROINamesGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCROINamesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ROI_Names" : <string> } } }
```

- **IRAGCActiveROISet**

**Description**

Sets given ROI as active

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCActiveROISet&Active_ROI=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCActiveROISet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCActiveROIGet**

**Description**

Requests name of active ROI

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCActiveROIGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCActiveROIGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active_ROI" : <string> } } }
```

- **IRAGCROIParamsSet**

**Description**

Sets ROI parameters

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCROIParamsSet&XPos=<integer>&YPos=<integer>&Width=<integer>&Height=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCROIParamsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCROIParamsGet**

**Description**

Requests parameters of active ROI

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCROIParamsGet&ROIName=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCROIParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XPos" : <integer>, "YPos" : <integer>, "Width" : <integer>, "Height" : <integer> } } }
```

- **IRBrightnessBIASSet**

**Description**

Sets brightness BIAS

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBrightnessBIASSet&Brightness_BIAS=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRBrightnessBIASSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBrightnessBIASGet**

**Description**

Requests value of brightness BIAS

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBrightnessBIASGet[&DeviceID=<devId>]`

**Response**

```
{ "IRBrightnessBIASGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Brightness_BIAS" : <integer> } } }
```

- **IRBrightnessUserOffsetPercentageSet**

**Description**

Sets brightness user offset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBrightnessUserOffsetPercentageSet&Brightness=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRBrightnessUserOffsetPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBrightnessUserOffsetPercentageGet**

**Description**

Requests value of brightness user offset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBrightnessUserOffsetPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "IRBrightnessUserOffsetPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Brightness" : <float> } } }
```

- **IRContrastUserOffsetPercentageSet**

**Description**

Sets contrast user offset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRContrastUserOffsetPercentageSet&Contrast=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRContrastUserOffsetPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRContrastUserOffsetPercentageGet**

**Description**

Requests value of contrast user offset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRContrastUserOffsetPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "IRContrastUserOffsetPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Contrast" : <float> } } }
```

- **IRScenePresetSet**

**Description**

Sets a specific scene preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRScenePresetSet&Preset=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRScenePresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRScenePresetGet**

**Description**

Returns current scene preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRScenePresetGet[&DeviceID=<devId>]`

**Response**

```
{ "IRScenePresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **IRScenePresetToggle**

**Description**

Toggles the scene preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRScenePresetToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRScenePresetToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCModeToggle**

**Description**

Toggles the AGC Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCModeToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCMaxGainToggle**

**Description**

Toggles the AGC Max Gain value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCMaxGainToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCMaxGainToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRActiveROIToggle**

**Description**

Toggles the AGC active ROI

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRActiveROIToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRActiveROIToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCKeepSettingsAtRestartSet**

**Description**

Sets if Agc settings are saved at restart

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCKeepSettingsAtRestartSet&Keep=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCKeepSettingsAtRestartSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCKeepSettingsAtRestartGet**

**Description**

Gets if Agc settings are saved at restart

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCKeepSettingsAtRestartGet[&DeviceID=<devId>]

**Response**

```
{ "IRAGCKeepSettingsAtRestartGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Keep" : <integer> } } }
```

- **IRScenePresetNameByIdGet**

**Description**

Returns the name of scene preset indicated by Id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRScenePresetNameByIdGet&ScenePresetId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRScenePresetNameByIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ScenePresetName" : "<string> } } }
```

- **IRScenePresetNameCurrentGet**

**Description**

Returns the name of current scene preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRScenePresetNameCurrentGet[&DeviceID=<devId>]

**Response**

```
{ "IRScenePresetNameCurrentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ScenePresetName" : "<string> } } }
```

- **IRScenePresetByNameSet**

**Description**

Sets the scene preset specified

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRScenePresetByNameSet&ScenePresetName=<string>[&DeviceID=<devId>]

**Response**

```
{ "IRScenePresetByNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRScenePresetNumberGet**

**Description**

Returns the number of scene presets available

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRScenePresetNumberGet[&DeviceID=<devId>]

**Response**

```
{ "IRScenePresetNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SceneNumber" : <integer> } } }
```

- **IRAGCROIParamsPercentageSet**

**Description**

Sets ROI parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCROIParamsPercentageSet&XPos=<float>&YPos=<float>&Width=<float>&Height=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRAGCROIParamsPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCROIParamsPercentageGet**

**Description**

Requests parameters of active ROI

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRAGCROIParamsPercentageGet&ROIName=<string>[&DeviceID=<devId>]

**Response**

```
{ "IRAGCROIParamsPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XPos" : <float>, "YPos" : <float>, "Width" : <float>, "Height" : <float> } } }
```

- **IRAGCFilterset**

**Description**

Sets AGC Filter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCFilterSet&Filter=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCFilterGet**

**Description**

Returns AGC Filter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCFilterGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter" : <integer> } } }
```

- **IRAGCFilterPercentageSet**

**Description**

Sets AGC Filter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCFilterPercentageSet&Filter=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCFilterPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAGCFilterPercentageGet**

**Description**

Returns AGC Filter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCFilterPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAGCFilterPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter" : <float> } } }
```

- **IRGainOffsetCountsSet**

**Description**

Sets value of gain and offset in counts

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGainOffsetCountsSet&Gain=<integer>&Offset=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRGainOffsetCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGainOffsetCountsGet**

**Description**

Requests value of gain and offset in counts

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGainOffsetCountsGet[&DeviceID=<devId>]`

**Response**

```
{ "IRGainOffsetCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <integer>, "Offset" : <integer> } } }
```

- **IRAdvancedModeSet**

**Description**

Sets IR Advanced mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAdvancedModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRAdvancedModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAdvancedModeGet**

**Description**

Returns current advanced mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAdvancedModeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRAdvancedModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRInstAlertValueSet**

**Description**

Sets InstAlert parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRInstAlertValueSet&Value=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRInstAlertValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRInstAlertValueGet**

**Description**

Returns current InstAlert parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRInstAlertValueGet[&DeviceID=<devId>]

**Response**

```
{ "IRInstAlertValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <float> } } }
```

- **IRIceAlertValueSet**

**Description**

Sets IceAlert parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRIceAlertValueSet&Value=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRIceAlertValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRIceAlertValueGet**

**Description**

Returns current IceAlert parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRIceAlertValueGet[&DeviceID=<devId>]

**Response**

```
{ "IRIceAlertValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <float> } } }
```

- **IRFireFighterValueSet**

**Description**

Sets FireFighter parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFireFighterValueSet&Value=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRFireFighterValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFireFighterValueGet**

**Description**

Returns current FireFighter parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFireFighterValueGet[&DeviceID=<devId>]

**Response**

```
{ "IRFireFighterValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <float> } } }
```

- **IRFireFighterDisplayParametersSet**

**Description**

Sets FireFighter display parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFireFighterDisplayParametersSet&Scale=<integer>&SPot=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFireFighterDisplayParametersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFireFighterDisplayParametersGet**

**Description**

Returns current FireFighter display parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFireFighterDisplayParametersGet[&DeviceID=<devId>]

**Response**

```
{ "IRFireFighterDisplayParametersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Scale" : <integer>, "Spot" : <integer> } } }
```

- **IRFireFighterThresholdsGet**

**Description**

Returns current FireFighter isotherm threshold values

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFireFighterThresholdsGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFireFighterThresholdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold1" : <float>, "Threshold2" : <float>, "Threshold3" : <float>, "Threshold4" : <float> } } }
```

- **IRAdvancedModesAvailable**

**Description**

Returns the availability of Advanced Modes

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAdvancedModesAvailable[&DeviceID=<devId>]
```

**Response**

```
{ "IRAdvancedModesAvailable": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRAdvancedModeToggleByIndex**

**Description**

If current advanced mode matches Mode, then it is disabled. If it is different, then it sets new Mode.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAdvancedModeToggleByIndex&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRAdvancedModeToggleByIndex": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGainCorrectionSet**

**Description**

Enable/Disable Gain Correction per pixel

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGainCorrectionSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRGainCorrectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGainCorrectionGet**

**Description**

Get the current status of the Gain Correction per pixel

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGainCorrectionGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRGainCorrectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRSpatialPatternNoiseReductionSet**

**Description**

Enable the Spatial Spatial Pattern Noise Reduction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRSpatialPatternNoiseReductionSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRSpatialPatternNoiseReductionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSpatialPatternNoiseReductionGet**

**Description**

Get the current status of the Spatial Spatial Pattern Noise Reduction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRSpatialPatternNoiseReductionGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRSpatialPatternNoiseReductionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRNoiseReductionColumnSet**

**Description**

Enable the Column Noise Reduction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNoiseReductionColumnSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRNoiseReductionColumnSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNoiseReductionColumnGet**

**Description**

Get the current status of the Column Noise Reduction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNoiseReductionColumnGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRNoiseReductionColumnGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRNoiseReductionRowSet**

**Description**

Enable the Row Noise Suppression algorithm

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNoiseReductionRowSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRNoiseReductionRowSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNoiseReductionRowGet**

**Description**

Get the current status of the Row Noise Suppression algorithm

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRNoiseReductionRowGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRNoiseReductionRowGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRTemperatureCompensationLagrangeSet**

**Description**

Enable the temperature compensation

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTemperatureCompensationLagrangeSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTemperatureCompensationLagrangeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTemperatureCompensationLagrangeGet**

**Description**

Get the current status of the temperature compensation

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTemperatureCompensationLagrangeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRTemperatureCompensationLagrangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRAGCRestoreDefaults**

**Description**

Restore the AGC configuration from flash

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAGCRestoreDefaults[&DeviceID=<devId>]
```

**Response**

```
{ "IRAGCRestoreDefaults": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAdvancedModeTunningSet**

**Description**

Sets contrast and brightness factors in advanced modes

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAdvancedModeTunningSet&Mode=<integer>&ContrastOffset=<float>&ContrastFactor=<float>&BrightnessFactor=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRAdvancedModeTunningSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRAdvancedModeTunningGet**

**Description**

Gets contrast and brightness factors in advanced modes

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRAdvancedModeTunningGet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRAdvancedModeTunningGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ModeOut" : <integer>, "ContrastOffset" : <float>, "ContrastFactor" : <float>, "BrightnessFactor" : <float> } } }
```

- **IRRadiometryFilterSet**

**Description**

Sets Radiometry Filter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRRadiometryFilterSet&Filter=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRRadiometryFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRRadiometryFilterGet**

**Description**

Returns Radiometry Filter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRRadiometryFilterGet[&DeviceID=<devId>]`

**Response**

```
{ "IRRadiometryFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter" : <integer> } } }
```

- **IRPolaritySet**

**Description**

Sets polarity to black or white hot

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPolaritySet&Polarity=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRPolaritySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPolarityGet**

**Description**

Requests value of polarity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPolarityGet[&DeviceID=<devId>]`

**Response**

```
{ "IRPolarityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Polarity" : <integer> } } }
```

- **IRLookupTableDefaultSet**

**Description**

Sets default LUT index for startup

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLookupTableDefaultSet&LUT=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRLookupTableDefaultSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLookupTableDefaultGet**

**Description**

Requests default LUT index for startup

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLookupTableDefaultGet[&DeviceID=<devId>]`

**Response**

```
{ "IRLookupTableDefaultGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LUT" : <integer> } } }
```

- **IRLookupTableColorEnableSet**

**Description**

Enables/disables the use of color LUTs

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableColorEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableColorEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLookupTableColorEnableGet**

**Description**

Reports the status of color LUTS enabled or disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableColorEnableGet[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableColorEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRLookupTableSet**

**Description**

Sets the required Lookup Table index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableSet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLookupTableGet**

**Description**

Requests the current Lookup Table index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableGet[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **IRLookupTableToggle**

**Description**

Toggles the current Lookup Table

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableToggle[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLookupTableCountGet**

**Description**

Requests the current Lookup Table index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableCountGet[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **IRLookupTableNameGet**

**Description**

Requests Name of required Lookup table

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLookupTableNameGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRLookupTableNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **IRPolarityToggle**

**Description**

Toggles the current polarity

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRPolarityToggle[&DeviceID=<devId>]

**Response**

```
{ "IRPolarityToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRImageModeSet**

**Description**

Sets the image mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRImageModeSet&ImageMode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRImageModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRImageModeGet**

**Description**

Gets the image mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRImageModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRImageModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ImageMode" : <integer> } } }
```

- **IRGuiLevelSet**

**Description**

Sets the gui level. Only applies if image mode = diff

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGuiLevelSet&GuiLevel=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRGuiLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRGuiLevelGet**

**Description**

Gets the gui level. Only applies if image mode = diff

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRGuiLevelGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRGuiLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GuiLevel" : <integer> } } }
```

- **IRLookupTableNamesGet**

**Description**

Requests the list of available LUTs

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLookupTableNamesGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRLookupTableNamesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Names" : <string> } } }
```

- **IRLookupTableReverseEnabledGet**

**Description**

returns the ability of reverting palettes (polarity)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLookupTableReverseEnabledGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRLookupTableReverseEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ReverseCapability" : <integer> } } }
```

- **IRLensAthermalizationSet**

**Description**

Sets athermalization on/off

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLensAthermalizationSet&Athermalization=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRLensAthermalizationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLensAthermalizationGet**

**Description**

Requests athermalization state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLensAthermalizationGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRLensAthermalizationGet": { "Return Code" : "<code>", "Return String" : "<string>", "Athermalization" : <integer> } }
```

- **IRLensStartupModeSet**

**Description**

Sets current zoom and focus as startup mode

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRLensStartupModeSet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLensStartupModeSet[&DeviceID=<devId>])

**Response**

```
{ "IRLensStartupModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLensReset**

**Description**

Reset the lens

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRLensReset\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLensReset[&DeviceID=<devId>])

**Response**

```
{ "IRLensReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSubsystemOn**

**Description**

Turns IR subsystem on

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRSubsystemOn\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRSubsystemOn[&DeviceID=<devId>])

**Response**

```
{ "IRSubsystemOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSubsystemOff**

**Description**

Turns IR subsystem off

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRSubsystemOff\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRSubsystemOff[&DeviceID=<devId>])

**Response**

```
{ "IRSubsystemOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSubsystemPowerGet**

**Description**

Requests value of IR subsystem power

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRSubsystemPowerGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRSubsystemPowerGet[&DeviceID=<devId>])

**Response**

```
{ "IRSubsystemPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", "Power" : <integer> } }
```

- **IRHeaterGet**

**Description**

Requests heater state

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRHeaterGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRHeaterGet[&DeviceID=<devId>])

**Response**

```
{ "IRHeaterGet": { "Return Code" : "<code>", "Return String" : "<string>", "Heater" : <integer> } }
```

- **IRHeaterSet**

**Description**

Sets heater state

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRHeaterSet&Heater=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRHeaterSet&Heater=<integer>[&DeviceID=<devId>])

**Response**

```
{ "IRHeaterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDefrosterStatusGet**

**Description**

Requests defroster status

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=IRDefrosterStatusGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDefrosterStatusGet[&DeviceID=<devId>])

**Response**

```
{ "IRDefrosterStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", "Defroster_Status" : <integer> } }
```

- **IRDefrosterStatusSet**

**Description**

Sets defroster status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDefrosterStatusSet&Defroster\_Status=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRDefrosterStatusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLensCoverGet**

**Description**

Requests status of the lens cover

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLensCoverGet[&DeviceID=<devId>]

**Response**

```
{ "IRLensCoverGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **IRLensCoverSet**

**Description**

Sets status of the lens cover

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLensCoverSet&Status=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRLensCoverSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSubsystemPowerSet**

**Description**

Sets value of subsystem power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSubsystemPowerSet&Power=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRSubsystemPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSubsystemPowerToggle**

**Description**

Toggles value of subsystem power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSubsystemPowerToggle[&DeviceID=<devId>]

**Response**

```
{ "IRSubsystemPowerToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRElectronicZoomSet**

**Description**

Sets electronic zoom on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomSet&Electronic\_Zoom=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRElectronicZoomGet**

**Description**

Requests state of electronic zoom

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomGet[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Electronic_Zoom" : <integer> } } }
```

- **IRElectronicZoomMagnificationSet**

**Description**

Sets electronic zoom magnification

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomMagnificationSet&Electronic\_Zoom=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomMagnificationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRElectronicZoomMagnificationGet**

**Description**

Requests current magnification value for electronic zoom

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomMagnificationGet[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomMagnificationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Electronic_Zoom" : <float> } } }
```

- **IRElectronicZoomIncrementSet**

**Description**

Increments electronic zoom

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomIncrementSet&Increment=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomIncrementSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRElectronicZoomPercentageSet**

**Description**

Sets electronic zoom percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomPercentageSet&Electronic\_Zoom\_Percentage=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRElectronicZoomPercentageGet**

**Description**

Requests current percentage value for electronic zoom

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Electronic_Zoom_Percentage" : <float> } } }
```

- **IRElectronicZoomEnableSet**

**Description**

Sets electronic zoom enable/disable

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRElectronicZoomEnableGet**

**Description**

Requests state of electronic zoom (enable/disable)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomEnableGet[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRElectronicZoomEnableToggle**

**Description**

Sets electronic zoom enable/disable

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRElectronicZoomEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "IRElectronicZoomEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFreezeSet**

**Description**

Sets freeze on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFreezeSet&Freeze=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRFreezeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFreezeGet**

**Description**

Requests state of freeze

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFreezeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRFreezeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Freeze" : <integer> } } }
```

- **IRImageOrientationSet**

**Description**

Sets image orientation

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRImageOrientationSet&ImageOrientation=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRImageOrientationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRImageOrientationGet**

**Description**

Requests state of image orientation

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRImageOrientationGet[&DeviceID=<devId>]`

**Response**

```
{ "IRImageOrientationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ImageOrientation" : <integer> } } }
```

- **IRStabilizationModeSet**

**Description**

Sets stabilization mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRStabilizationModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRStabilizationModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRStabilizationModeGet**

**Description**

Requests stabilization mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRStabilizationModeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRStabilizationModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRStabilizationParamSet**

**Description**

Sets stabilization parameter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRStabilizationParamSet&Param=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRStabilizationParamSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRStabilizationParamGet**

**Description**

Requests stabilization parameter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRStabilizationParamGet[&DeviceID=<devId>]`

**Response**

```
{ "IRStabilizationParamGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Param" : <integer> } } }
```

- **IRStabilizationParamIncrement**

**Description**

Sets stabilization parameter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRStabilizationParamIncrement&Increment=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRStabilizationParamIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFreezeToggle**

**Description**

Toggles image freeze state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFreezeToggle[&DeviceID=<devId>]

**Response**

```
{ "IRFreezeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRImageOrientationHorizontalToggle**

**Description**

Toggles horizontal image orientation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRImageOrientationHorizontalToggle[&DeviceID=<devId>]

**Response**

```
{ "IRImageOrientationHorizontalToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRImageOrientationVerticalToggle**

**Description**

Toggles vertical image orientation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRImageOrientationVerticalToggle[&DeviceID=<devId>]

**Response**

```
{ "IRImageOrientationVerticalToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRStabilizationParamPercentageSet**

**Description**

Sets stabilization parameter in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRStabilizationParamPercentageSet&ParamPercentage=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRStabilizationParamPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRStabilizationParamPercentageGet**

**Description**

Requests stabilization parameter in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRStabilizationParamPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRStabilizationParamPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", "ParamPercentage" : <float> } }
```

- **IRDescintillationSet**

**Description**

Sets descintillation mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDescintillationSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRDescintillationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDescintillationGet**

**Description**

Requests descintillation mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationGet[&DeviceID=<devId>]`  
**Response**  
`{ "IRDescintillationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }`

- **IRDescintillationToggle**

**Description**

Toggles the De-Scintillation value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationToggle[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRDescintillationParameterSet**

**Description**

Sets the De-Scintillation Parameter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationParameterSet&Parameter=<integer>[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRDescintillationParameterGet**

**Description**

Gets the De-Scintillation Parameter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationParameterGet[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameter" : <integer> } } }`

- **IRDescintillationLevelPercentageSet**

**Description**

Sets the value of the Descintillation Level percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationLevelPercentageSet&Level=<float>[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationLevelPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRDescintillationLevelPercentageGet**

**Description**

Gets the value of the Descintillation Level percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationLevelPercentageGet[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationLevelPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }`

- **IRDescintillationROIPresetSet**

**Description**

Sets the De-Scintillation ROI Preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationROIPresetSet&Parameter=<integer>[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationROIPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRDescintillationROIPresetGet**

**Description**

Gets the De-Scintillation ROI Preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDescintillationROIPresetGet[&DeviceID=<devId>]`

**Response**

`{ "IRDescintillationROIPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameter" : <integer> } } }`

- **IRDescintillationFilterAvailableGet**

**Description**

Requests descintillation filter availability

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDescintillationFilterAvailableGet[&DeviceID=<devId>]

**Response**

```
{ "IRDescintillationFilterAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRBlendThermalVideoSet**

**Description**

Sets the blending level in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendThermalVideoSet&Level=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRBlendThermalVideoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendThermalVideoGet**

**Description**

Gets the Blending level in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendThermalVideoGet[&DeviceID=<devId>]

**Response**

```
{ "IRBlendThermalVideoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }
```

- **IRDescintillationOnOffSet**

**Description**

Sets descintillation power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDescintillationOnOffSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRDescintillationOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDescintillationOnOffGet**

**Description**

Requests descintillation power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDescintillationOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "IRDescintillationOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRDescintillationOnOffToggle**

**Description**

Toggles the De-Scintillation power value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDescintillationOnOffToggle[&DeviceID=<devId>]

**Response**

```
{ "IRDescintillationOnOffToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendModeSet**

**Description**

Sets blend mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendModeSet&BlendMode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRBlendModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendModeGet**

**Description**

Requests blend mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendModeGet[&DeviceID=<devId>]

**Response**

```
{ "IRBlendModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendMode" : <integer> } } }
```

- **IRMSXBlendLevelSet**

**Description**

Sets the MSX blend value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRMSXBlendLevelSet&BlendLevel=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRMSXBlendLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRMSXBlendLevelGet**

**Description**

Requests MSX blend value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRMSXBlendLevelGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRMSXBlendLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendLevel" : <float> } } }
```

- **IRCNVBlendLevelSet**

**Description**

Sets the CNV blend value (deprecated)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCNVBlendLevelSet&BlendLevel=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRCNVBlendLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCNVBlendLevelGet**

**Description**

Requests CNV blend value (deprecated)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCNVBlendLevelGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRCNVBlendLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendLevel" : <float> } } }
```

- **IRBlendModeToggleByIndex**

**Description**

Toggles blend mode by index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBlendModeToggleByIndex&BlendModeIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRBlendModeToggleByIndex": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendOffsetXSet**

**Description**

Sets blending registration offset X

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBlendOffsetXSet&BlendOffset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRBlendOffsetXSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendOffsetXGet**

**Description**

Requests blending registration offset X

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBlendOffsetXGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRBlendOffsetXGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendOffset" : <integer> } } }
```

- **IRBlendOffsetYSet**

**Description**

Sets blending registration offset Y

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendOffsetYSet&BlendOffset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRBlendOffsetYSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendOffsetYGet**

**Description**

Requests blending registration offset Y

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendOffsetYGet[&DeviceID=<devId>]

**Response**

```
{ "IRBlendOffsetYGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendOffset" : <integer> } } }
```

- **IRBlendOffsetWidthSet**

**Description**

Sets blending registration offset Width

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendOffsetWidthSet&BlendOffset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRBlendOffsetWidthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendOffsetWidthGet**

**Description**

Requests blending registration offset Width

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendOffsetWidthGet[&DeviceID=<devId>]

**Response**

```
{ "IRBlendOffsetWidthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendOffset" : <integer> } } }
```

- **IRBlendOffsetHeightSet**

**Description**

Sets blending registration offset Height

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendOffsetHeightSet&BlendOffset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRBlendOffsetHeightSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBlendOffsetHeightGet**

**Description**

Requests blending registration offset Height

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBlendOffsetHeightGet[&DeviceID=<devId>]

**Response**

```
{ "IRBlendOffsetHeightGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendOffset" : <integer> } } }
```

- **IRCTVBlendLevelSet**

**Description**

Sets the CTV blend value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCTVBlendLevelSet&BlendLevel=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRCTVBlendLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCTVBlendLevelGet**

**Description**

Requests CTV blend value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCTVBlendLevelGet[&DeviceID=<devId>]

**Response**

```
{ "IRCTVBlendLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlendLevel" : <float> } } }
```

- **IROperationalModeSet**

**Description**

Sets operational mode of the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROperationalModeSet&OperationalMode=<integer>[&DeviceID=<devId>]

**Response**

{ "IROperationalModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IROperationalModeGet**

**Description**

Requests operational mode of the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROperationalModeGet[&DeviceID=<devId>]

**Response**

{ "IROperationalModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OperationalMode" : <integer> } }

- **IRFunctionKeySend**

**Description**

Sends a key stroke to the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFunctionKeySend&Key=<integer>[&DeviceID=<devId>]

**Response**

{ "IRFunctionKeySend": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFunctionKeyPress**

**Description**

Sends a key press sequence to the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFunctionKeyPress&Key=<integer>[&DeviceID=<devId>]

**Response**

{ "IRFunctionKeyPress": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRFunctionKeyRelease**

**Description**

Sends a key release sequence to the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFunctionKeyRelease&Key=<integer>[&DeviceID=<devId>]

**Response**

{ "IRFunctionKeyRelease": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IROverlaySet**

**Description**

Requests state of graphics overlay. 0=no,1=yes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROverlaySet&Overlay=<integer>[&DeviceID=<devId>]

**Response**

{ "IROverlaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IROverlayGet**

**Description**

Requests state of graphics overlay. 0=no,1=yes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IROverlayGet[&DeviceID=<devId>]

**Response**

{ "IROverlayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Overlay" : <integer> } } }

- **IRPictureInPictureSet**

**Description**

Sets the PIP mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRPictureInPictureSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRPictureInPictureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPictureInPictureGet**

**Description**

Gets the PIP mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPictureInPictureGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRPictureInPictureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRPictureInPicturePositionSet**

**Description**

Sets the PIP position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPictureInPicturePositionSet&Position=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRPictureInPicturePositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPictureInPicturePositionGet**

**Description**

Gets the PIP position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPictureInPicturePositionGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRPictureInPicturePositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Position" : <integer> } } }
```

- **IROverlayIconLevelSet**

**Description**

Sets the level for OSD icons

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconLevelSet&Level=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IROverlayIconLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROverlayIconLevelGet**

**Description**

Gets the level for OSD icons

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconLevelGet[&DeviceID=<devId>]
```

**Response**

```
{ "IROverlayIconLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <integer> } } }
```

- **IROverlayIconPCEnableSet**

**Description**

Enables/disables the PC icon

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconPCEnableSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IROverlayIconPCEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROverlayIconPCEnableGet**

**Description**

Gets the current status of PC icon

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconPCEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IROverlayIconPCEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IROverlayIconJCUEnableSet**

**Description**

Enables/disables the JCU icon

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconJCUEnableSet&Enable=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayIconJCUEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROverlayIconJCUEnableGet**

**Description**

Gets the current status of JCU icon

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconJCUEnableGet[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayIconJCUEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IROverlayFieldsMaskSet**

**Description**

Sets the mask to show specific fields in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayFieldsMaskSet&Mask=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayFieldsMaskSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROverlayFieldsMaskGet**

**Description**

Requests the mask to show specific fields in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayFieldsMaskGet[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayFieldsMaskGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mask" : <longint> } } }
```

- **IROverlayLabelSet**

**Description**

Sets the overlay label

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayLabelSet&Label=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayLabelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IROverlayLabelGet**

**Description**

Requests the overlay label

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayLabelGet[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayLabelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Label" : <string> } } }
```

- **IROverlayMenuOnOffGet**

**Description**

Returns the current status of the camera OSD menu

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayMenuOnOffGet[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayMenuOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **IRCrosshairSet**

**Description**

Sets crosshair in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCrosshairSet&Crosshair=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRCrosshairSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCrosshairGet**

**Description**

Requests Crosshair status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCrosshairGet[&DeviceID=<devId>]`

**Response**

```
{ "IRCrosshairGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Crosshair" : <integer> } } }
```

- **IRCrosshairToggle**

**Description**

Toggles crosshair in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCrosshairToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRCrosshairToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPointerSet**

**Description**

Sets pointer in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPointerSet&Pointer=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRPointerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPointerGet**

**Description**

Requests Pointer status in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPointerGet[&DeviceID=<devId>]`

**Response**

```
{ "IRPointerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Pointer" : <integer> } } }
```

- **IRPointerToggle**

**Description**

Toggles pointer in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPointerToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRPointerToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPointerPositionSet**

**Description**

Sets pointer position in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPointerPositionSet&x=<integer>&y=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRPointerPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPointerPositionGet**

**Description**

Requests Pointer position in overlay

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPointerPositionGet[&DeviceID=<devId>]`

**Response**

```
{ "IRPointerPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "x" : <integer>, "y" : <integer> } } }
```

- **IROverlayIconLevelToggle**

**Description**

Toggles the OSD Icon Level

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IROverlayIconLevelToggle[&DeviceID=<devId>]`

**Response**

```
{ "IROverlayIconLevelToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRActiveSourceSet**

**Description**

Sets as active source. 0=unset,1=set

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRActiveSourceSet&ActiveSource=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRActiveSourceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRActiveSourceGet**

**Description**

Requests if camera is the active source. 0=no,1=yes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRActiveSourceGet[&DeviceID=<devId>]

**Response**

```
{ "IRActiveSourceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ActiveSource" : <integer> } } }
```

- **IRActiveSourceToggle**

**Description**

toggles the active source

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRActiveSourceToggle[&DeviceID=<devId>]

**Response**

```
{ "IRActiveSourceToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCameraDefaultsSet**

**Description**

Sets default camera values

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCameraDefaultsSet[&DeviceID=<devId>]

**Response**

```
{ "IRCameraDefaultsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRRevisionGet**

**Description**

Requests revision number

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRRevisionGet[&DeviceID=<devId>]

**Response**

```
{ "IRRevisionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "R1" : <integer>, "R2" : <integer>, "R3" : <integer>, "R4" : <integer> } } }
```

- **IRFactoryDefaultsSet**

**Description**

Resets factory defaults

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFactoryDefaultsSet[&DeviceID=<devId>]

**Response**

```
{ "IRFactoryDefaultsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSerialNumberGet**

**Description**

Requests serial number

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSerialNumberGet[&DeviceID=<devId>]

**Response**

```
{ "IRSerialNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Serial" : <longint> } } }
```

- **IRFPATemperatureGet**

**Description**

Requests FPA temperature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFPATemperatureGet[&DeviceID=<devId>]

**Response**

```
{ "IRFPATemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **IRReboot**

**Description**

Reboots camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRReboot[&DeviceID=<devId>]`

**Response**

```
{ "IRReboot": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTestPatternSet**

**Description**

Sets test pattern. 0=off,1=ramp

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTestPatternSet&TestPattern=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTestPatternSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTestPatternGet**

**Description**

Requests state of test pattern. 0=off,1=ramp

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTestPatternGet[&DeviceID=<devId>]`

**Response**

```
{ "IRTestPatternGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TestPattern" : <integer> } } }
```

- **IRCoolerRunTimeGet**

**Description**

Requests the cooler run time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCoolerRunTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRCoolerRunTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <float> } } }
```

- **IRRawCommandSend**

**Description**

Sends a command to the IR

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IRRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IRRawCommandASCIISend**

**Description**

Sends a command to the IR

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IRRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IRResetCounterGet**

**Description**

Requests the Reset Counter

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRResetCounterGet[&DeviceID=<devId>]`

**Response**

```
{ "IRResetCounterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <longint> } } }
```

- **IRTestPatternToggle**

**Description**

Toggles test pattern.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTestPatternToggle[&DeviceID=<devId>]`

**Response**

```
{ "IRTestPatternToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCoolerActiveSet**

**Description**

Sets the cooler operational state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCoolerActiveSet&CoolerActive=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRCoolerActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCoolerActiveGet**

**Description**

Gets the cooler operational state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCoolerActiveGet[&DeviceID=<devId>]`

**Response**

```
{ "IRCoolerActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "CoolerActive" : <integer> } } }
```

- **IRLensRawCommandSend**

**Description**

Sends a command to the Lens attached to the IR

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLensRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IRLensRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IRLensRawCommandASCIISend**

**Description**

Sends a command to the Lens attached to the IR

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLensRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IRLensRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IRHousingTemperatureGet**

**Description**

Requests Housing temperature

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRHousingTemperatureGet[&DeviceID=<devId>]`

**Response**

```
{ "IRHousingTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **IRPartNumberGet**

**Description**

Returns camera part number

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPartNumberGet[&DeviceID=<devId>]`

**Response**

```
{ "IRPartNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PartNumber" : <string> } } }
```

- **IRSensorSerialNumberGet**

**Description**

Requests sensor serial number

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRSensorSerialNumberGet[&DeviceID=<devId>]`

**Response**

```
{ "IRSensorSerialNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Serial" : <string> } } }
```

- **IRCameraDefaultsRestore**

**Description**

Restores the default values for the camera

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRCameraDefaultsRestore[&DeviceID=<devId>]`

**Response**

```
{ "IRCameraDefaultsRestore": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRShutterPositionSet**

**Description**

Sets shutter position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRShutterPositionSet&Position=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRShutterPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRShutterPositionGet**

**Description**

Requests shutter position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRShutterPositionGet[&DeviceID=<devId>]

**Response**

```
{ "IRShutterPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Position" : <integer> } } }
```

- **IRFFCModeSet**

**Description**

Sets FFC Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFFCModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFFCModeGet**

**Description**

Requests FFC Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCModeGet[&DeviceID=<devId>]

**Response**

```
{ "IRFFCModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRDDEGainSet**

**Description**

Sets digital detail enhancement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEGainSet&DDEnhancement=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRDDEGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDDEGainGet**

**Description**

Requests digital detail enhancement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEGainGet[&DeviceID=<devId>]

**Response**

```
{ "IRDDEGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DDEnhancement" : <integer> } } }
```

- **IRPlateauValueSet**

**Description**

Sets plateau value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRPlateauValueSet&Plateau=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRPlateauValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPlateauValueGet**

**Description**

Requests plateau value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRPlateauValueGet[&DeviceID=<devId>]

**Response**

```
{ "IRPlateauValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Plateau" : <integer> } } }
```

- **IRMidITTOffsetSet**

**Description**

Sets mid ITT offset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRMidITTOffsetSet&ITTOffset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRMidITTOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRMidITTOffsetGet**

**Description**

Requests mid ITT offset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRMidITTOffsetGet[&DeviceID=<devId>]

**Response**

```
{ "IRMidITTOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ITTOffset" : <integer> } } }
```

- **IRDDEThresholdSet**

**Description**

Sets Digital Data Enhancement Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEThresholdSet&DDEThreshold=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRDDEThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDDEThresholdGet**

**Description**

Requests Digital Data Enhancement Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "IRDDEThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DDEThreshold" : <integer> } } }
```

- **IRSpatialThresholdSet**

**Description**

Sets Spatial Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSpatialThresholdSet&SpatialThreshold=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRSpatialThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSpatialThresholdGet**

**Description**

Requests Spatial Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSpatialThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "IRSpatialThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SpatialThreshold" : <integer> } } }
```

- **IRFFCIntervalSet**

**Description**

Sets FFC interval

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCIntervalSet&FFCInterval=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFFCIntervalSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFFCIntervalGet**

**Description**

Requests value of FFC interval

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCIntervalGet[&DeviceID=<devId>]

**Response**

```
{ "IRFFCIntervalGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FFCInterval" : <integer> } } }
```

**• IRFFCTemperatureDeltaSet****Description**

Sets value of FFC temperature delta

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFFCTemperatureDeltaSet&FFCTemperatureDelta=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRFFCTemperatureDeltaSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRFFCTemperatureDeltaGet****Description**

Requests value of FFC temperature delta

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFFCTemperatureDeltaGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRFFCTemperatureDeltaGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FFCTemperatureDelta" : <integer> } } }
```

**• IRDDEModeSet****Description**

Sets DDE mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDDEModeSet&DDEMode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRDDEModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRDDEModeGet****Description**

Requests DDE mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDDEModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRDDEModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DDEMode" : <integer> } } }
```

**• IRHistogramEqualizationModeSet****Description**

Sets Histogram Equalization Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRHistogramEqualizationModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRHistogramEqualizationModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRHistogramEqualizationModeGet****Description**

Requests Histogram Equalization Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRHistogramEqualizationModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRHistogramEqualizationModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

**• IRHistogramEqualizationGainSet****Description**

Sets Histogram Equalization Gain

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRHistogramEqualizationGainSet&Gain=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRHistogramEqualizationGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRHistogramEqualizationGainGet**

**Description**

Requests Histogram Equalization Gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRHistogramEqualizationGainGet[&DeviceID=<devId>]

**Response**

```
{ "IRHistogramEqualizationGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <integer> } } }
```

- **IRDDEGainToggle**

**Description**

Toggles DDE Gain value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEGainToggle[&DeviceID=<devId>]

**Response**

```
{ "IRDDEGainToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPlateauValueToggle**

**Description**

Toggles AGC Plateau value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRPlateauValueToggle[&DeviceID=<devId>]

**Response**

```
{ "IRPlateauValueToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDDEGainAutoToggle**

**Description**

Toggles DDE Gain value in auto mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEGainAutoToggle[&DeviceID=<devId>]

**Response**

```
{ "IRDDEGainAutoToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFFCWarnTimeSet**

**Description**

Sets the time interval (in frames) for FFC warn flag

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCWarnTimeSet&Time=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFFCWarnTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFFCWarnTimeGet**

**Description**

Requests the time interval (in milliseconds) for FFC warn flag

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCWarnTimeGet[&DeviceID=<devId>]

**Response**

```
{ "IRFFCWarnTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <integer> } } }
```

- **IRCispOnOffSet**

**Description**

Sets crisp to on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCispOnOffSet&Crisp=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRCispOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCispOnOffGet**

**Description**

Requests crisp to on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCispOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "IRCispOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Crisp" : <integer> } } }
```

- **IRCrispCountsSet**

**Description**

Sets crisp counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCrispCountsSet&Counts=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRCrispCountsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCrispCountsGet**

**Description**

Requests crisp counts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCrispCountsGet[&DeviceID=<devId>]

**Response**

```
{ "IRCrispCountsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Counts" : <integer> } } }
```

- **IRCrispModeSet**

**Description**

Sets crisp mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCrispModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRCrispModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCrispModeGet**

**Description**

Requests crisp mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCrispModeGet[&DeviceID=<devId>]

**Response**

```
{ "IRCrispModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRCrispPercentageSet**

**Description**

Sets crisp percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCrispPercentageSet&Percentage=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRCrispPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRCrispPercentageGet**

**Description**

Requests crisp percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCrispPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRCrispPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percentage" : <float> } } }
```

- **IRNoiseFilterSet**

**Description**

Sets noise filter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNoiseFilterSet&Filter=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRNoiseFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRNoiseFilterGet**

**Description**

Requests noise filter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRNoiseFilterGet[&DeviceID=<devId>]

**Response**

```
{ "IRNoiseFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Filter" : <float> } } }
```

- **IRDigitalDetailEnhancementGainAutoSet**

**Description**

Sets DDE Automatic Gain value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDigitalDetailEnhancementGainAutoSet&Gain=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRDigitalDetailEnhancementGainAutoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDigitalDetailEnhancementGainAutoGet**

**Description**

Returns current DDE Auto Gain value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDigitalDetailEnhancementGainAutoGet[&DeviceID=<devId>]

**Response**

```
{ "IRDigitalDetailEnhancementGainAutoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <integer> } } }
```

- **IRSmartSceneOptimizationSet**

**Description**

Sets Smart Scene Optimization value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSmartSceneOptimizationSet&Percent=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRSmartSceneOptimizationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSmartSceneOptimizationGet**

**Description**

Returns current Smart Scene Optimization percentage value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSmartSceneOptimizationGet[&DeviceID=<devId>]

**Response**

```
{ "IRSmartSceneOptimizationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percent" : <float> } } }
```

- **IRActiveContrastEnhancementSet**

**Description**

Sets Active Contrast Enhancement value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRActiveContrastEnhancementSet&Contrast=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRActiveContrastEnhancementSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRActiveContrastEnhancementGet**

**Description**

Returns current Active Contrast Enhancement value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRActiveContrastEnhancementGet[&DeviceID=<devId>]

**Response**

```
{ "IRActiveContrastEnhancementGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Contrast" : <integer> } } }
```

- **IRTailRejectionSet**

**Description**

Sets Tail Rejection value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTailRejectionSet&Tail=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTailRejectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTailRejectionGet**

**Description**

Returns current Tail Rejection percentage value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTailRejectionGet[&DeviceID=<devId>]`

**Response**

```
{ "IRTailRejectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Tail" : <float> } } }
```

- **IREntropyBasedThresholdSet**

**Description**

Sets Entropy Based Threshold value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IREntropyBasedThresholdSet&Threshold=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IREntropyBasedThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IREntropyBasedThresholdGet**

**Description**

Returns current Entropy Based Threshold value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IREntropyBasedThresholdGet[&DeviceID=<devId>]`

**Response**

```
{ "IREntropyBasedThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <integer> } } }
```

- **IRDampingFactorSet**

**Description**

Sets Damping Factor value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDampingFactorSet&DampingFactor=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRDampingFactorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDampingFactorGet**

**Description**

Returns current Damping Factor percentage value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDampingFactorGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDampingFactorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DampingFactor" : <float> } } }
```

- **IRPercentPerBinSet**

**Description**

Sets Percent Per Bin value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPercentPerBinSet&PercentPerBin=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRPercentPerBinSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRPercentPerBinGet**

**Description**

Returns current Percent Per Bin value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRPercentPerBinGet[&DeviceID=<devId>]`

**Response**

```
{ "IRPercentPerBinGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PercentPerBin" : <float> } } }
```

- **IRLinearPercentSet**

**Description**

Sets Linear Percent value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLinearPercentSet&LinearPercent=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRLinearPercentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRLinearPercentGet**

**Description**

Returns current Linear Percent value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRLinearPercentGet[&DeviceID=<devId>]

**Response**

```
{ "IRLinearPercentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LinearPercent" : <float> } } }
```

- **IRDetailHeadroomSet**

**Description**

Sets Detail Headroom value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDetailHeadroomSet&DetailHeadroom=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRDetailHeadroomSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDetailHeadroomGet**

**Description**

Returns current Detail Headroom value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDetailHeadroomGet[&DeviceID=<devId>]

**Response**

```
{ "IRDetailHeadroomGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DetailHeadroom" : <float> } } }
```

- **IRSigmaRSet**

**Description**

Sets SigmaR value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSigmaRSet&SigmaR=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRSigmaRSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRSigmaRGet**

**Description**

Returns current SigmaR value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRSigmaRGet[&DeviceID=<devId>]

**Response**

```
{ "IRSigmaRGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SigmaR" : <float> } } }
```

- **IREntropyEnableSet**

**Description**

Sets entropy mode for AGC

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IREntropyEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IREntropyEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IREntropyEnableGet**

**Description**

Returns current Use Entropy mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IREntropyEnableGet[&DeviceID=<devId>]

**Response**

```
{ "IREntropyEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRFFCTimeIntervalSet**

**Description**

Sets FFC Time interval

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCTimeIntervalSet&FFCInterval=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFFCTimeIntervalSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFFCTimeIntervalGet**

**Description**

Requests value of FFC Time interval

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCTimeIntervalGet[&DeviceID=<devId>]

**Response**

```
{ "IRFFCTimeIntervalGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FFCInterval" : <integer> } } }
```

- **IRFFCOffsetCorrectionSet**

**Description**

Enable or Disable the FFC per pixel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCOffsetCorrectionSet&GAOFFCState=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRFFCOffsetCorrectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFFCOffsetCorrectionGet**

**Description**

Requests the status of the FFC per pixel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFFCOffsetCorrectionGet[&DeviceID=<devId>]

**Response**

```
{ "IRFFCOffsetCorrectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GAOFFCState" : <integer> } } }
```

- **IRDDEGainPercentageSet**

**Description**

Configures sharpness gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEGainPercentageSet&Gain=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRDDEGainPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDDEGainPercentageGet**

**Description**

Returns the current sharpness gain

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRDDEGainPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRDDEGainPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <float> } } }
```

- **IRMSXEnableSet**

**Description**

Enables/disables MSX

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRMSXEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRMSXEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRMSXEnableGet**

**Description**

Returns current MSX state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRMSXEnableGet[&DeviceID=<devId>]

**Response**

```
{ "IRMSXEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRMSXParallaxDistanceSet**

**Description**

Sets parallax distance for MSX

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRMSXParallaxDistanceSet&Distance=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRMSXParallaxDistanceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRMSXParallaxDistanceGet****Description**

Returns current MSX parallax distance

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRMSXParallaxDistanceGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRMSXParallaxDistanceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Distance" : <integer> } } }
```

**• IRDynamicVisualOptimizationActivatedSet****Description**

Activates or desactivates the Dynamic Visual Optimization process

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDYNAMICVisualOptimizationActivatedSet&OnOff=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRDYNAMICVisualOptimizationActivatedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRDynamicVisualOptimizationActivatedGet****Description**

Returns current Dynamic Visual Optimization state, activated or not activated

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDYNAMICVisualOptimizationActivatedGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRDYNAMICVisualOptimizationActivatedGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

**• IRDynamicVisualOptimizationMinutesBetweenCyclesSet****Description**

Changes the minutes between cycles

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDYNAMICVisualOptimizationMinutesBetweenCyclesSet&Minutes=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRDYNAMICVisualOptimizationMinutesBetweenCyclesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRDynamicVisualOptimizationMinutesBetweenCyclesGet****Description**

Returns current minutes between cycles in Dynamic Visual Optimization process

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDYNAMICVisualOptimizationMinutesBetweenCyclesGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRDYNAMICVisualOptimizationMinutesBetweenCyclesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Minutes" : <integer> } } }
```

**• IRDynamicVisualOptimizationAvailableGet****Description**

Returns whether the Dynamic Visual Optimization process is available or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDYNAMICVisualOptimizationAvailableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRDYNAMICVisualOptimizationAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

**• IRIsothermSet****Description**

Sets up an isotherm

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermSet&Index=<integer>&Ulimit=<float>&Dlimit=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRIsothermRemove**

**Description**

Removes an isotherm

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermRemove&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRIsothermRequest**

**Description**

Queries isotherm state and definitions

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermRequest&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermRequest": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer>, "Ulimit" : <float>, "Dlimit" : <float> } } }
```

- **IRIsothermEnableSet**

**Description**

Enables/Disables Isotherm Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermEnableSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRIsothermEnableGet**

**Description**

Returns Isotherm Mode enabled status

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRIsothermThresholdsSet**

**Description**

Sets the Isotherm Thresholds

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermThresholdsSet&Threshold1=<float>&Threshold2=<float>&Threshold3=<float>&Threshold4=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermThresholdsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRIsothermThresholdsGet**

**Description**

Gets the Isotherm Thresholds

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermThresholdsGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermThresholdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold1" : <float>, "Threshold2" : <float>, "Threshold3" : <float>, "Threshold4" : <float> } } }
```

- **IRIsothermThresholdsDegreesSet**

**Description**

Sets the Isotherm Thresholds in degrees

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRIsothermThresholdsDegreesSet&Threshold1=<float>&Threshold2=<float>&Threshold3=<float>&Threshold4=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRIsothermThresholdsDegreesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRIsothermThresholdsDegreesGet**

**Description**

Gets the Isotherm Thresholds in degrees

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRIsothermThresholdsDegreesGet[&DeviceID=<devId>]

**Response**

```
{ "IRIsothermThresholdsDegreesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold1" : <float>, "Threshold2" : <float>, "Threshold3" : <float>, "Threshold4" : <float> } } }
```

- **IRCropConfigGet**

**Description**

Requests crop configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRCropConfigGet[&DeviceID=<devId>]

**Response**

```
{ "IRCropConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Left" : <float>, "Right" : <float>, "Top" : <float>, "Bottom" : <float> } } }
```

- **IRFrameRateSet**

**Description**

Sets the frame rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFrameRateSet&Rate=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRFrameRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRFrameRateGet**

**Description**

Requests the frame rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRFrameRateGet[&DeviceID=<devId>]

**Response**

```
{ "IRFrameRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rate" : <float> } } }
```

- **IRVideoQualitySet**

**Description**

Sets the video quality

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualitySet&Quality=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRVideoQualityGet**

**Description**

Requests the video quality

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityGet[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Quality" : <integer> } } }
```

- **IRVideoQualityPresetSet**

**Description**

Sets the video quality preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityPresetSet&Preset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRVideoQualityPresetGet**

**Description**

Requests the video quality preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityPresetGet[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **IRVideoQualityPresetCountGet**

**Description**

Requests number of the video quality presets available

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityPresetCountGet[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityPresetCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **IRVideoQualityPresetConfigGet**

**Description**

Requests the video quality of the required preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityPresetConfigGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityPresetConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Quality" : <integer> } } }
```

- **IRVideoQualityPercentageSet**

**Description**

Sets the video quality in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityPercentageSet&Quality=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRVideoQualityPercentageGet**

**Description**

Requests the video quality in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoQualityPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "IRVideoQualityPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Quality" : <float> } } }
```

- **IRVideoSizeSet**

**Description**

Sets the video size index for A-Series cameras

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoSizeSet&Size=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRVideoSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRVideoSizeGet**

**Description**

Requests the video size index for A-Series cameras

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoSizeGet[&DeviceID=<devId>]

**Response**

```
{ "IRVideoSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Size" : <integer> } } }
```

- **IRVideoFormatSet**

**Description**

Sets the video format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRVideoFormatSet&Format=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRVideoFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRVideoFormatGet**

**Description**

Requests the video format

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRVideoFormatGet[&DeviceID=<devId>]`

**Response**

```
{ "IRVideoFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **IRVideoSnapshotURLGet**

**Description**

Returns the URL to get a video snapshot

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRVideoSnapshotURLGet[&DeviceID=<devId>]`

**Response**

```
{ "IRVideoSnapshotURLGet": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string> } } }
```

- **IRVideoDisplayModeSet**

**Description**

Sets the video display mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRVideoDisplayModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRVideoDisplayModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRVideoDisplayModeGet**

**Description**

Returns current video display mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRVideoDisplayModeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRVideoDisplayModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRFPASizeGet**

**Description**

Requests FPA size

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFPASizeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRFPASizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Columns" : <integer>, "Rows" : <integer> } } }
```

- **IRVideoOutputSizeGet**

**Description**

Requests video output size

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRVideoOutputSizeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRVideoOutputSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Columns" : <integer>, "Rows" : <integer> } } }
```

- **IRVideoDecimatedSizeGet**

**Description**

Requests video output decimated size

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRVideoDecimatedSizeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRVideoDecimatedSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Columns" : <integer>, "Rows" : <integer> } } }
```

- **IRFrameRateNativeGet**

**Description**

Requests the native frame rate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRFrameRateNativeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRFrameRateNativeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rate" : <float> } } }
```

- **IREZoomModeEnabledGet**

**Description**

Requests EZoom mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IREZoomModeEnabledGet[&DeviceID=<devId>]

**Response**

```
{ "IREZoomModeEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "EZoomMode" : <integer> } } }
```

- **IRStore14bitSnapshot**

**Description**

Stores 14 bit snapshot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRStore14bitSnapshot[&DeviceID=<devId>]

**Response**

```
{ "IRStore14bitSnapshot": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRWiperSet**

**Description**

Sets wiper on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRWiperSet&Wiper=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRWiperSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRWiperGet**

**Description**

Requests wiper state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRWiperGet[&DeviceID=<devId>]

**Response**

```
{ "IRWiperGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Wiper" : <integer> } } }
```

- **IRRANGEGet**

**Description**

Requests range of the camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRRANGEGet[&DeviceID=<devId>]

**Response**

```
{ "IRRANGEGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Range" : <longint> } } }
```

- **IRHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRHealthGet[&DeviceID=<devId>]

**Response**

```
{ "IRHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **IRBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBITExecute[&DeviceID=<devId>]

**Response**

```
{ "IRBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBITAbort**

**Description**

Aborts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBITAbort[&DeviceID=<devId>]

**Response**

```
{ "IRBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBITResult**

**Description**

Requests result of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRBITResult[&DeviceID=<devId>]`

**Response**

```
{ "IRBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **IRLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLastNMEAGet[&DeviceID=<devId>]`

**Response**

```
{ "IRLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "FOV" : <float>, "FOV_Index" : <integer>, "Focus_pctg" : <float>, "AGC" : <integer>, "AGC_Low" : <float>, "AGC_High" : <float>, "Gain_pctg" : <float>, "Level_pctg" : <float>, "Polarity" : <integer>, "LUT_name" : <string>, "NUC_index" : <integer>, "NUC_name" : <string>, "Integration_time" : <float>, "NUC_status_str" : <string>, "NUC_status_num" : <integer>, "X0" : <integer>, "Lens_atherm" : <integer>, "OnOff" : <integer>, "Electronic_zoom" : <integer>, "Freeze" : <integer>, "OpMode" : <integer>, "ActiveSource" : <integer>, "Autofocus" : <integer>, "Frame_Size_X" : <integer>, "Frame_Size_Y" : <integer>, "Range" : <integer>, "Extender" : <integer>, "Zoom_Pctg" : <float>, "DDE_Mode" : <integer>, "DDE_Gain_Pctg" : <float>, "Lens_Cover" : <integer>, "THG_ItemsChangedTimestamp" : <string>, "Slave" : <integer>, "Orientation" : <integer>, "ScenePreset" : <integer>, "AdvancedMode" : <integer>, "FireFighterTemp" : <float>, "InstAlertValue" : <float>, "IceAlertValue" : <float>, "FireFighterValue" : <float>, "IsothermThreshold1" : <integer>, "IsothermThreshold2" : <integer>, "IsothermThreshold3" : <integer>, "IsothermThreshold4" : <integer>, "VideoMasked" : <integer>, "EStab" : <integer>, "Descintillation" : <integer>, "DescintillationLevel" : <float>, "Cooler" : <integer>, "BlendMode" : <integer>, "MSX_BundleValue" : <float>, "CNV_BundleValue" : <float>, "BlendOffsetX" : <integer>, "BlendOffsetY" : <integer>, "BlendOffsetWidth" : <integer>, "BlendOffsetHeight" : <integer>, "CTV_BundleValue" : <float> } } }
```

- **IRLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRLongBITResult[&DeviceID=<devId>]`

**Response**

```
{ "IRLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **IRDeviceVersionGet**

**Description**

Requests the device version string

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDeviceVersionGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IRDeviceInfoGet**

**Description**

Requests the device info string

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDeviceInfoGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IRDateTimeSet**

**Description**

Sets date and time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDateTimeSet&Hour=<integer>&Min=<integer>&Sec=<integer>&Day=<integer>&Month=<integer>&Year=<integer>&TimeZone=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRDateTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRDateTimeGet**

**Description**

Requests date and time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRDateTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "IRDateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Hour" : <integer>, "Min" : <integer>, "Sec" : <integer>, "Day" : <integer>, "Month" : <integer>, "Year" : <integer>, "TimeZone" : <float> } } }
```

- **IRConfigurationReportGet**

**Description**

Requests the configuration information

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRConfigurationReportGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRConfigurationReportGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Info" : <string> } } }
```

- **IRWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRWebSettingsSet&Settings=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **IRWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRWebSettingsGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **IRExpertModeSet**

**Description**

Sets the configuration for the Expert Communications Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRExpertModeSet&OnOff=<integer>&Type=<integer>&ETX=<integer>&ERX=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRExpertModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRExpertModeGet**

**Description**

Requests the configuration for the Expert Communications Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRExpertModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRExpertModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Type" : <integer>, "ETX" : <integer>, "ERX" : <integer> } } }
```

- **IRExpertDataWrite**

**Description**

In Expert Mode, transmits raw data and waits for the answer

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRExpertDataWrite&CountTx=<integer>&TimeoutRx=<integer>&DataTx=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRExpertDataWrite": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **IRExpertDataRead**

**Description**

In Expert Mode, reads raw data from the device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRExpertDataRead&TimeoutRx=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRExpertDataRead": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **IRTHGSpotSet**

**Description**

Creates or changes the spot parameters (an spot is specified by RefMode and index)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotSet&RefMode=<integer>&Index=<integer>&Enable=<integer>&XCoord=<float>&YCoord=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGSpotGet**

**Description**

Requests the spot parameters (an spot is specified by RefMode and index)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer>, "XCoord" : <float>, "YCoord" : <float> } } }
```

- **IRTHGSpotAdd**

**Description**

Adds a new spot to the current list and returns the index associated

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotAdd&RefMode=<integer>&Enable=<integer>&XCoord=<float>&YCoord=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **IRTHGSpotRemove**

**Description**

Removes the spot specified by RefMode and index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotRemove&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGSpotCountGet**

**Description**

Requests the number of spots for the specified RefMode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotCountGet&RefMode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **IRTHGGeoSpotIndexFromOSDGet**

**Description**

Requests the Geo Spots table index of the specified OSD spot

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGGeoSpotIndexFromOSDGet&IdInOSD=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGGeoSpotIndexFromOSDGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **IRTHGGeoSpotOSDIdGet**

**Description**

Requests the Spot OSD Id for the specified index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGGeoSpotOSDIdGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGGeoSpotOSDIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IdInOSD" : <integer> } } }
```

- **IRTHGBoxSet**

**Description**

Creates or changes the box parameters (an box is specified by RefMode and index)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxSet&RefMode=<integer>&Index=<integer>&Enable=<integer>&XCoord=<float>&YCoord=<float>&Width=<float>&Height=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGBoxGet**

**Description**

Requests the box parameters (an box is specified by RefMode and index)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer>, "XCoord" : <float>, "YCoord" : <float>, "Width" : <float>, "Height" : <float> } } }
```

- **IRTHGBoxAdd**

**Description**

Adds a new box to the current list and returns the index associated

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxAdd&RefMode=<integer>&Enable=<integer>&XCoord=<float>&YCoord=<float>&Width=<float>&Height=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **IRTHGBoxRemove**

**Description**

Removes the box specified by RefMode and index)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxRemove&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGBoxCountGet**

**Description**

Requests the number of box for the specified RefMode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxCountGet&RefMode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **IRTHGGeoBoxIndexFromOSDGet**

**Description**

Requests the Geo Box table index of the specified OSD box

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGGeoBoxIndexFromOSDGet&IdInOSD=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGGeoBoxIndexFromOSDGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **IRTHGGeoBoxOSDIdGet**

**Description**

Requests the Box OSD Id for the specified index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGGeoBoxOSDIdGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGGeoBoxOSDIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IdInOSD" : <integer> } } }
```

- **IRTHGAlarmEnableSet**

**Description**

Enables the alarm for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmEnableSet&RefMode=<integer>&ItemType=<integer>&Index=<integer>&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGAlarmEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmEnableGet**

**Description**

Requests if the alarm is enabled for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmEnableGet&RefMode=<integer>&ItemType=<integer>&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGAlarmEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRTHGAlarmConditionTypeSet**

**Description**

Sets the alarm condition type for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmConditionTypeSet&RefMode=<integer>&ItemT
```

**Response**

```
{ "IRTHGAlarmConditionTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmConditionTypeGet**

**Description**

Requests the alarm condition type for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmConditionTypeGet&RefMode=<integer>&Item
```

**Response**

```
{ "IRTHGAlarmConditionTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Condition" : <integer> } } }
```

- **IRTHGAlarmThresholdValueSet**

**Description**

Sets the alarm threshold value for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmThresholdValueSet&RefMode=<integer>&I
```

**Response**

```
{ "IRTHGAlarmThresholdValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmThresholdValueGet**

**Description**

Requests the alarm threshold value for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmThresholdValueGet&RefMode=<integer>&I
```

**Response**

```
{ "IRTHGAlarmThresholdValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <float> } } }
```

- **IRTHGAlarmResultTypeSet**

**Description**

Sets the alarm result type for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmResultTypeSet&RefMode=<integer>&ItemT
```

**Response**

```
{ "IRTHGAlarmResultTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmResultTypeGet**

**Description**

Requests the alarm result type for the specified item

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmResultTypeGet&RefMode=<integer>&ItemT
ype=<integer>&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGAlarmResultTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <integer> } } }
```

- **IRTHGSpotNameSet**

**Description**

Sets the name for a specific spot

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotNameSet&RefMode=<integer>&Index=<integ
er>&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGSpotNameGet**

**Description**

Returns the current name of a specific spot

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotNameGet&RefMode=<integer>&Index=<inte
ger>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSpotNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **IRTHGBoxNameSet**

**Description**

Sets the name for a specific box

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGBoxNameSet&RefMode=<integer>&Index=<integ
er>&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGBoxNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGBoxNameGet**

**Description**

Returns the current name of a specific box

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGBoxNameGet&RefMode=<integer>&Index=<integ
er>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGBoxNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **IRTHGAlarmIdSet**

**Description**

Sets alarmd Id

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmIdSet&RefMode=<integer>&ItemType=<inte
ger>&Index=<integer>&AlarmId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGAlarmIdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmIdGet**

**Description**

Returns the current alarm Id

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmIdGet&RefMode=<integer>&ItemType=<inte
ger>&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGAlarmIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AlarmId" : <integer> } } }
```

- **IRTHGUseLocalObjectParametersSet**

**Description**

Sets if local object parameters are used in the measurement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGUseLocalObjectParametersSet&RefMode=<integer>&ItemT...&Index=<integer>&UseParameters=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGUseLocalObjectParametersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGUseLocalObjectParametersGet**

**Description**

Gets if local object parameters are used in the measurement

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGUseLocalObjectParametersGet&RefMode=<integer>&ItemT...&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGUseLocalObjectParametersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UseParameters" : <integer> } } }
```

- **IRTHGLocalObjectParametersSet**

**Description**

Sets local object parameters

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGLocalObjectParametersSet&RefMode=<integer>&ItemT...&Index=<integer>&Emissivity=<float>&Distance=<float>&Temperature=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGLocalObjectParametersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGLocalObjectParametersGet**

**Description**

Returns local object parameters

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGLocalObjectParametersGet&RefMode=<integer>&ItemT...&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGLocalObjectParametersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Emissivity" : <float>, "Distance" : <float>, "Temperature" : <float> } } }
```

- **IRTHGReflectedTemperatureSet**

**Description**

Sets the temperature of the surroundings reflected in object

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGReflectedTemperatureSet&RefTemp=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGReflectedTemperatureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGReflectedTemperatureGet**

**Description**

Gets the temperature of the surroundings reflected in object

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGReflectedTemperatureGet[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGReflectedTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ReflTemp" : <float> } } }
```

- **IRTHGObjectEmissivitySet**

**Description**

Sets the object emissivity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGObjectEmissivitySet&Emissivity=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGObjectEmissivitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGObjectEmissivityGet**

**Description**

Gets the object emissivity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGObjectEmissivityGet[&DeviceID=<devId>]`  
**Response**  
`{ "IRTHGObjectEmissivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Emissivity" : <float> } } }`

- **IRTHGObjectDistanceSet**

**Description**

Sets the object distance

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGObjectDistanceSet&Distance=<float>[&DeviceID=<devId>]`

**Response**

`{ "IRTHGObjectDistanceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRTHGObjectDistanceGet**

**Description**

Gets the object distance

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGObjectDistanceGet[&DeviceID=<devId>]`

**Response**

`{ "IRTHGObjectDistanceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Distance" : <float> } } }`

- **IRTHGRelativeHumiditySet**

**Description**

Sets the relative humidity of the air (0.0 - 1.0)

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGRelativeHumiditySet&RelHum=<float>[&DeviceID=<devId>]`

**Response**

`{ "IRTHGRelativeHumiditySet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRTHGRelativeHumidityGet**

**Description**

Gets the relative humidity of the air

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGRelativeHumidityGet[&DeviceID=<devId>]`

**Response**

`{ "IRTHGRelativeHumidityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RelHum" : <float> } } }`

- **IRTHGAtmosphericTemperatureSet**

**Description**

Sets the atmospheric temperature

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAtmosphericTemperatureSet&AtmTemp=<float>[&DeviceID=<devId>]`

**Response**

`{ "IRTHGAtmosphericTemperatureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRTHGAtmosphericTemperatureGet**

**Description**

Gets the atmospheric temperature

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAtmosphericTemperatureGet[&DeviceID=<devId>]`

**Response**

`{ "IRTHGAtmosphericTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AtmTemp" : <float> } } }`

- **IRTHGEstimatedAtmosphericTransmissionSet**

**Description**

Sets the estimated atmospheric transmission

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGEstimatedAtmosphericTransmissionSet&EstAtmT  
rans=<float>[&DeviceID=<devId>]`

**Response**

`{ "IRTHGEstimatedAtmosphericTransmissionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **IRTHGEstimatedAtmosphericTransimissionGet**

**Description**

Gets the estimated atmospheric transimission

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGEstimatedAtmosphericTransimissionGet[&DeviceID=<devId>]

**Response**

```
{ "IRTHGEstimatedAtmosphericTransimissionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "EstAtmTrans" : <float> } } }
```

- **IRTHGExternalOpticsTemperatureSet**

**Description**

Sets the external optics temperature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGExternalOpticsTemperatureSet&ExtOptTemp=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGExternalOpticsTemperatureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGExternalOpticsTemperatureGet**

**Description**

Gets the the external optics temperature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGExternalOpticsTemperatureGet[&DeviceID=<devId>]

**Response**

```
{ "IRTHGExternalOpticsTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ExtOptTemp" : <float> } } }
```

- **IRTHGExternalOpticsTransmissionSet**

**Description**

Sets the external optics transmission (0.001 - 1.0)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGExternalOpticsTransmissionSet&ExtOptTemp=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGExternalOpticsTransmissionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGExternalOpticsTransmissionGet**

**Description**

Gets the the external optics transmission

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGExternalOpticsTransmissionGet[&DeviceID=<devId>]

**Response**

```
{ "IRTHGExternalOpticsTransmissionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ExtOptTemp" : <float> } } }
```

- **IRTHGSpotEnableSet**

**Description**

Enables or disables the spot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGSpotEnableSet&RefMode=<integer>&Index=<integer>&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGSpotEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGSpotEnableGet**

**Description**

Requests if the spot is enabled or disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGSpotEnableGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGSpotEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRTHGBoxEnableSet**

**Description**

Enables or disables the box

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxEnableSet&RefMode=<integer>&Index=<integer>&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGBoxEnableGet**

**Description**

Requests if the spot is enabled or disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxEnableGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGBoxEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRTHGAlarmHysteresisSet**

**Description**

Sets the alarm hysteresis for the specified item

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGAlarmHysteresisSet&RefMode=<integer>&ItemTy pe=<integer>&Index=<integer>&Hysteresis=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGAlarmHysteresisSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmHysteresisGet**

**Description**

Requests the alarm hysteresis for the specified item

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGAlarmHysteresisGet&RefMode=<integer>&ItemTy pe=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGAlarmHysteresisGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Hysteresis" : <float> } } }
```

- **IRTHGAlarmDurationSet**

**Description**

Sets the alarm duration for the specified item

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGAlarmDurationSet&RefMode=<integer>&ItemTyp e=<integer>&Index=<integer>&Duration=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGAlarmDurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmDurationGet**

**Description**

Requests the alarm duration for the specified item

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGAlarmDurationGet&RefMode=<integer>&ItemTyp e=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGAlarmDurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Duration" : <integer> } } }
```

- **IRTHGGeoSpotScreenCoordinatesGet**

**Description**

Requests the geo spot screen coordinates

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGGeoSpotScreenCoordinatesGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGGeoSpotScreenCoordinatesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XCoord" : <float>, "YCoord" : <float> } } }
```

- **IRTHGGeoBoxScreenCoordinatesGet**

**Description**

Requests the geo box screen coordinates

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGGeoBoxScreenCoordinatesGet&Index=<integer>[&DeviceID=<devId>]

**Response**

{ "IRTHGGeoBoxScreenCoordinatesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XCoord" : <float>, "YCoord" : <float>, "Width" : <float>, "Height" : <float> } } }

- **IRTHGGeoSpotAzimuthElevationSet**

**Description**

Sets the geo spot position from Az/EI

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGGeoSpotAzimuthElevationSet&Index=<integer>&XCoord=<float>&YCoord=<float>[&DeviceID=<devId>]

**Response**

{ "IRTHGGeoSpotAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRTHGGeoBoxAzimuthElevationSet**

**Description**

Sets the geo box position from Az/EI

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGGeoBoxAzimuthElevationSet&Index=<integer>&XCoord=<float>&YCoord=<float>&Width=<float>&Height=<float>[&DeviceID=<devId>]

**Response**

{ "IRTHGGeoBoxAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRTHGBoxShowMinMaxSet**

**Description**

Sets if Max/Min marker are shown in a specific box

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxShowMinMaxSet&RefMode=<integer>&Index=<integer>&ShowMax=<integer>&ShowMin=<integer>[&DeviceID=<devId>]

**Response**

{ "IRTHGBoxShowMinMaxSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRTHGBoxShowMinMaxGet**

**Description**

Gets if Max/Min marker are shown in a specific box

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGBoxShowMinMaxGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]

**Response**

{ "IRTHGBoxShowMinMaxGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ShowMax" : <integer>, "ShowMin" : <integer> } } }

- **IRTHGIsothermSet**

**Description**

Sets isotherm settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGIsothermSet&Index=<integer>&Enabled=<integer>&Type=<integer>&Color=<integer>&HighValue=<float>&LowValue=<float>[&DeviceID=<devId>]

**Response**

{ "IRTHGIsothermSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **IRTHGIsothermGet**

**Description**

Gets isotherm settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGIsothermGet&Index=<integer>[&DeviceID=<devId>]

**Response**

{ "IRTHGIsothermGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "Type" : <integer>, "Color" : <integer>, "HighValue" : <float>, "LowValue" : <float> } } }

- **IRTHGIsothermEnableSet**

**Description**

Enables/disables isotherm

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGIsothermEnableSet&Index=<integer>&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGIsothermEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGIsothermEnableGet**

**Description**

Gets isotherm enabled setting

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGIsothermEnableGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGIsothermEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **IRTHGAlarmActionsSet**

**Description**

Sets alarm actions for specified alarm item

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmActionsSet&RefMode=<integer>&ItemType=<integer>&Index=<integer>&Mask=<longint>&DigOutput=<integer>&PulseTime=<integer>&Mark=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAlarmActionsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmActionsGet**

**Description**

Gets alarm actions for specified alarm item

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmActionsGet&RefMode=<integer>&ItemType=<integer>&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAlarmActionsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mask" : <longint>, "DigOutput" : <integer>, "PulseTime" : <integer>, "Mark" : <integer> } } }
```

- **IRTHGRegionalSettingsSet**

**Description**

Sets regional settings

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGRegionalSettingsSet&DateFormat=<integer>&DistanceUnit=<integer>&TempUnit=<integer>&TimeFormat=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGRegionalSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGRegionalSettingsGet**

**Description**

Gets regional settings

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGRegionalSettingsGet[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGRegionalSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DateFormat" : <integer>, "DistanceUnit" : <integer>, "TempUnit" : <integer>, "TimeFormat" : <integer> } } }
```

- **IRTHGAlarmDigitalInputSet**

**Description**

Sets alarm params for digital input

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmDigitalInputSet&DigInput=<integer>&Enable=<integer>&High=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAlarmDigitalInputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmDigitalInputGet**

**Description**

Gets alarm params for digital input

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmDigitalInputGet&DigInput=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAlarmDigitalInputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer>, "High" : <integer> } } }
```

- **IRTHGAlarmTempSensorSet**

**Description**

Sets alarm params for temp sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmTempSensorSet&Enable=<integer>&Condition=<integer>&Duration=<integer>&Hysteresis=<float>&Value=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAlarmTempSensorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGAlarmTempSensorGet**

**Description**

Gets alarm params for temp sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAlarmTempSensorGet[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAlarmTempSensorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer>, "Condition" : <integer>, "Duration" : <integer>, "Hysteresis" : <float>, "Value" : <float> } } }
```

- **IRTHGResetObjectParametersSet**

**Description**

Resets object parameters

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGResetObjectParametersSet[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGResetObjectParametersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGSpotTemperatureGet**

**Description**

Gets spot current temperature

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSpotTemperatureGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGSpotTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **IRTHGAreaTemperatureGet**

**Description**

Gets area current temperatures

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAreaTemperatureGet&RefMode=<integer>&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGAreaTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AvgTemperature" : <float>, "MaxTemperature" : <float>, "MinTemperature" : <float>, "MedianTemperature" : <float> } } }
```

- **IRTHGSnapshotStore**

**Description**

Stores a snapshot and returns its Id (timestamp)

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSnapshotStore&Format=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGSnapshotStore": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <string> } } }
```

- **IRTHGDataAvailableGet**

**Description**

Requests if THG data is available

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGDataAvailableGet[&DeviceID=<devId>]`

**Response**

```
{ "IRTHGDataAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Data" : <integer> } } }
```

**• IRTHGAckAlarmSet****Description**

Acknowledges a IR item alarm.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGAckAlarmSet&AlarmId=<integer>&Ack=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGAckAlarmSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRTHGSnapshotStateGet****Description**

Gets the state of a given snapshot

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSnapshotStateGet&Id=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSnapshotStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

**• IRTHGSnapshotUrlGet****Description**

Gets the url and the state of a given snapshot

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGSnapshotUrlGet&Id=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGSnapshotUrlGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer>, "Url" : "<string>" } } }
```

**• IRTHGRadiometricSnapshotAvailableGet****Description**

Returns whether radiometric snapshot is available or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGRadiometricSnapshotAvailableGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGRadiometricSnapshotAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Snap" : <integer> } } }
```

**• IRTHGRadiometricActivityGet****Description**

Gets if there are radiometric activity in screen

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGRadiometricActivityGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGRadiometricActivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Activity" : <integer> } } }
```

**• IRTHGItemsReset****Description**

Resets all the items on screen

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGItemsReset[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGItemsReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• IRTHGItemsListGet****Description**

Return string with all items

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGItemsListGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGItemsListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer>, "List" : "<string>" } } }
```

- **IRTHGItemStatusDataGet**

**Description**

Returns item UDP notification

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGItemStatusDataGet&AlarmId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGItemStatusDataGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Data" : <string> } } }
```

- **IRTHGDiffAdd**

**Description**

Adds a new diff based on two existing alarm items

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGDiffAdd&RefMode1=<integer>&ItemType1=<integer>&Index1=<integer>&ResultType1=<integer>&RefMode2=<integer>&ItemType2=<integer>&Index2=<integer>&ResultType2=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGDiffAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "DiffIndex" : <integer> } } }
```

- **IRTHGDiffRemove**

**Description**

Removes specified thg diff

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGDiffRemove&DiffIndex=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGDiffRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGDiffGet**

**Description**

Gets thg diff related alarm items

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGDiffGet&DiffIndex=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGDiffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RefMode1" : <integer>, "ItemType1" : <integer>, "Index1" : <integer>, "ResultType1" : <integer>, "RefMode2" : <integer>, "ItemType2" : <integer>, "Index2" : <integer>, "ResultType2" : <integer> } } }
```

- **IRTHGDiffAlarmEnabledSet**

**Description**

Enables/disables the alarm for the specified diff

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGDiffAlarmEnabledSet&DiffIndex=<integer>&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGDiffAlarmEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGDiffAlarmEnabledGet**

**Description**

Gets if the alarm for the specified diff is enabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGDiffAlarmEnabledGet&DiffIndex=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGDiffAlarmEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **IRTHGDiffAlarmThresholdValueSet**

**Description**

Sets the alarm threshold value for the specified diff

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGDiffAlarmThresholdValueSet&DiffIndex=<integer>&Value=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGDiffAlarmThresholdValueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGDiffAlarmThresholdValueGet**

**Description**

Gets the alarm threshold value for the specified diff

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGDiffAlarmThresholdValueGet&DiffIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGDiffAlarmThresholdValueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <float> } } }
```

- **IRTHGDiffAlarmConditionSet**

**Description**

Sets the alarm condition for the specified diff

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGDiffAlarmConditionSet&DiffIndex=<integer>&Condition=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGDiffAlarmConditionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGDiffAlarmConditionGet**

**Description**

Gets the alarm condition for the specified diff

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGDiffAlarmConditionGet&DiffIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGDiffAlarmConditionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Condition" : <integer> } } }
```

- **IRTHGDiffsListGet**

**Description**

Return string with all items

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGDiffsListGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGDiffsListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer>, "List" : "<string>"} } }
```

- **IRTHGDiffStatusDataGet**

**Description**

Returns item UDP notification

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGDiffStatusDataGet&DiffId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGDiffStatusDataGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Data" : <string> } } }
```

- **IRTHGTempRangeModeSet**

**Description**

Sets the radiometric temperature range mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGTempRangeModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGTempRangeModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGTempRangeModeGet**

**Description**

Gets the radiometric temperature range mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IRTHGTempRangeModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "IRTHGTempRangeModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **IRTHGTempRangeThresholdSet**

**Description**

Sets the radiometric temperature range threshold value for Auto mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGTempRangeThresholdSet&Threshold=<float>[&DeviceID=<devId>]

**Response**

```
{ "IRTHGTempRangeThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTHGTempRangeThresholdGet**

**Description**

Gets the radiometric temperature range threshold value for Auto mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTHGTempRangeThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "IRTHGTempRangeThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <float> } } }
```

- **IRBadPixelReplacementSet**

**Description**

Enable the Bad Pixel Replace

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBadPixelReplacementSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRBadPixelReplacementSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRBadPixelReplacementGet**

**Description**

Get the current status of the Bad Pixel Replace

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRBadPixelReplacementGet[&DeviceID=<devId>]

**Response**

```
{ "IRBadPixelReplacementGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **IRTemporalFilterSet**

**Description**

Enable the Temporal Filter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTemporalFilterSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IRTemporalFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IRTemporalFilterGet**

**Description**

Get the current status of the Temporal Filter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IRTemporalFilterGet[&DeviceID=<devId>]

**Response**

```
{ "IRTemporalFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **PTInitialize**

**Description**

Initializes platform control parameters and moves to the origin position of the encoders

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTInitialize[&DeviceID=<devId>]

**Response**

```
{ "PTInitialize": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthElevationSet**

**Description**

Moves platform to a position defined by azimuth and elevation from platform's own reference axis.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTAzimuthElevationSet&Azimuth=<float>&Elevation=<float>[&DeviceID=<devId>]

**Response**

```
{ "PTAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthElevationGet**

**Description**

Requests platform azimuth and elevation values

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float> } } }
```

- **PTMaxVelocityAccelerationSet**

**Description**

This command sets the inertial parameters to model positioning motion of the platform.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTMaxVelocityAccelerationSet&Azimuth_Velocity=<float>&Elevation_Velocity=<float>&Azimuth_Acceleration=<float>&Elevation_Acceleration=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTMaxVelocityAccelerationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTMaxVelocityAccelerationGet**

**Description**

This command gets the current inertial parameters of the platform.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTMaxVelocityAccelerationGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTMaxVelocityAccelerationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth_Velocity" : <float>, "Elevation_Velocity" : <float>, "Azimuth_Acceleration" : <float>, "Elevation_Acceleration" : <float> } } }
```

- **PTSpeedModeSet**

**Description**

Sets platform speed in both axis

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSpeedModeSet&Azimuth_Speed=<float>&Elevation_Speed=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTSpeedModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSpeedGet**

**Description**

Requests platform speed in both axis

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSpeedGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTSpeedGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth_Speed" : <float>, "Elevation_Speed" : <float> } } }
```

- **PTStop**

**Description**

Stops platform

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTStop[&DeviceID=<devId>]
```

**Response**

```
{ "PTStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthElevationIncrement**

**Description**

Increments platform's azimuth and/or elevation values (increments can be negative)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationIncrement&Azimuth=<float>&Elevation=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzimuthElevationIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTPark**

**Description**

Moves platform to park position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTPark[&DeviceID=<devId>]`

**Response**

```
{ "PTPark": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTModeGet**

**Description**

Requests platform mode. -1=Not initialized, 0=Manual, 1=Autoscan, 2=Video Tracker, 3=Slaved, 4=Parked, 5=Scan List, 6=Radar Track Scan, 7=Radar Track Engage Last, 8=Radar Track Engage, 9=Radar Track NMEA, 10=Heading Hold, 11=Alarm Manager, 12=Gyro Null

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTCalibrate**

**Description**

Performs a recalibration of the platform

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTCalibrate[&DeviceID=<devId>]`

**Response**

```
{ "PTCalibrate": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthElevationAtSpeedSet**

**Description**

Moves platform to a position defined by azimuth and elevation from platform's own reference axis at the azimuth and elevation rates specified.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationAtSpeedSet&Azimuth=<float>&Elevation=<float>&Azimuth_Rate=<float>&Elevation_Rate=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTAzimuthElevationAtSpeedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTFixedAzimuthElevationSet**

**Description**

Sets fixed azimuth and elevation specified

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTFixedAzimuthElevationSet&Azimuth=<float>&Elevation=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTFixedAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTFixedAzimuthElevationGet**

**Description**

Requests platform fixed azimuth and elevation values

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTFixedAzimuthElevationGet[&DeviceID=<devId>]`

**Response**

```
{ "PTFixedAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float> } } }
```

- **PTAzimuthElevationGeoRangeSet**

**Description**

Set azimuth and elevation Geo software limits

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationGeoRangeSet&Left=<float>&Right=<float>&Up=<float>&Down=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTAzimuthElevationGeoRangeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthElevationGeoRangeGet**

**Description**

Request azimuth and elevation Geo software limits

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationGeoRangeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTAzimuthElevationGeoRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Left" : <float>, "Right" : <float>, "Up" : <float>, "Down" : <float> } } }
```

- **PTAzimuthElevationRangeSet**

**Description**

Set azimuth and elevation software limits

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationRangeSet&Left=<float>&Right=<float>&Up=<float>&Down=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzimuthElevationRangeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthElevationRangeGet**

**Description**

Request azimuth and elevation Geo software limits

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationRangeGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzimuthElevationRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Left" : <float>, "Right" : <float>, "Up" : <float>, "Down" : <float> } } }
```

- **PTMinAzimuthStepAngleGet**

**Description**

Request minimum azimuth step angle

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTMinAzimuthStepAngleGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTMinAzimuthStepAngleGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float> } } }
```

- **PTMinElevationStepAngleGet**

**Description**

Request minimum elevation step angle

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTMinElevationStepAngleGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTMinElevationStepAngleGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Elevation" : <float> } } }
```

- **PTSpeedModeJoystickSet**

**Description**

Sets platform speed in both axis

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSpeedModeJoystickSet&Azimuth_Speed=<float>&Elevation_Speed=<float>&Model=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTSpeedModeJoystickSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSpeedModeJoystickFOVDependentSet**

**Description**

Sets platform speed in both axis with FOV Dependent

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSpeedModeJoystickFOVDependentSet&Azimuth_Speed=<float>&Elevation_Speed=<float>&Model=<integer>&Factor=<float>&Active_cam=<integer>&Cam_type=<integer>&Cam_id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTSpeedModeJoystickFOVDependentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthMoveTimeoutSet**

**Description**

Sets the time to stop pan continuous movement

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzimuthMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthMoveTimeoutGet**

**Description**

Request time to stop pan continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTAzimuthMoveTimeoutGet[&DeviceID=<devId>]

**Response**

```
{ "PTAzimuthMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } }
```

- **PTElevationMoveTimeoutSet**

**Description**

Sets the time to stop tilt continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTElevationMoveTimeoutSet&TimeToStop=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTElevationMoveTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTElevationMoveTimeoutGet**

**Description**

Request time to stop tilt continuous movement

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTElevationMoveTimeoutGet[&DeviceID=<devId>]

**Response**

```
{ "PTElevationMoveTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TimeToStop" : <integer> } }
```

- **PTLiftUpDownCommandSet**

**Description**

Commands the Up/Down Lift device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTLiftUpDownCommandSet&Command=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTLiftUpDownCommandSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTLiftUpDownCommandGet**

**Description**

Returns current command status for the Up/Down lift device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTLiftUpDownCommandGet[&DeviceID=<devId>]

**Response**

```
{ "PTLiftUpDownCommandGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Command" : <integer> } }
```

- **PTLiftUpDownStateGet**

**Description**

Returns current state of the Up/Down lift device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTLiftUpDownStateGet[&DeviceID=<devId>]

**Response**

```
{ "PTLiftUpDownStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } }
```

- **PTAzimuthZeroSet**

**Description**

Stores current PLAT Azimuth as Zero Azimuth

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTAzimuthZeroSet[&DeviceID=<devId>]

**Response**

```
{ "PTAzimuthZeroSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTElevationZeroSet**

**Description**

Stores current PLAT Elevation as Zero Elevation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTElevationZeroSet[&DeviceID=<devId>]

**Response**

```
{ "PTElevationZeroSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzEIOffsetGet**

**Description**

Returns current Az/EI offset values

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzEIOffsetGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzEIOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Offset_Azimuth" : <float>, "Offset_Elevation" : <float> } } }
```

- **PTAxisAvailable**

**Description**

Returns the availability of each axis

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAxisAvailable[&DeviceID=<devId>]
```

**Response**

```
{ "PTAxisAvailable": { "Return Code" : "<code>", "Return String" : "<string>", { "PanAvailable" : <integer>, "TiltAvailable" : <integer> } } }
```

- **PTAzimuthElevationOnScreenSet**

**Description**

Commands the PT to cue to the specified screen location

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthElevationOnScreenSet&ScreenX=<float>&ScreenY=<float>&Active_cam=<integer>&Cam_type=<integer>&Cam_id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAzimuthElevationOnScreenSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTStartupModeSet**

**Description**

Sets startup mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTStartupModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTStartupModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTStartupModeGet**

**Description**

Requests startup mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTStartupModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTStartupModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTGeoAzimuthElevationSet**

**Description**

Moves platform to a position defined by geographic azimuth from true North and elevation from horizontal plane.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoAzimuthElevationSet&Geo_Azimuth=<float>&Geo_Elevation=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGeoAzimuthElevationGet**

**Description**

Requests platform georeferenced azimuth and elevation values

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoAzimuthElevationGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Geo_Azimuth" : <float>, "Geo_Elevation" : <float> } } }
```

- **PTGeoPointXYZ**

**Description**

Points platform to a geographic position defined by UTM coordinates and height above MSL

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoPointXYZ&UTM_Zone_Number=<byte>&UTM_Zone_Letter=<byte>&X_UTM_Coordinate=<longint>&Y_UTM_Coordinate=<longint>&Height=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoPointXYZ": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGeoPointllh**

**Description**

Points platform to a geographic position defined by geographical coordinates and height above MSL.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoPointllh&Latitude_Degrees=<byte>&Latitude_Sign=<byte>&Latitude_Minutes=<byte>&Latitude_Seconds=<byte>&Latitude_Millisecs=<integer>&Longitude_Degrees=<byte>&Longitude_Sign=<byte>&Longitude_Minutes=<byte>&Longitude_Seconds=<byte>&Longitude_Millisecs=<integer>&Altitude=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoPointllh": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGeoPointllh2**

**Description**

Points platform to a geographic position defined by geographical coordinates and height above MSL. The latitude and longitude values are given as floats.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoPointllh2&Latitude=<float>&Longitude=<float>&Altitude=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoPointllh2": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGeoAzimuthElevationAtSpeedSet**

**Description**

Moves platform to a position defined by geographic azimuth from true North and elevation from horizontal plane at a specified speed in azimuth and elevation.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoAzimuthElevationAtSpeedSet&Geo_Azimuth=<float>&Geo_Elevation=<float>&Azimuth_Rate=<float>&Elevation_Rate=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoAzimuthElevationAtSpeedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGeoLLHtoAzEl**

**Description**

Calculates the Geo Azimuth/Elevation for a specific Geo location.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoLLHtoAzEl&Lat=<float>&Lon=<float>&Alt=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoLLHtoAzEl": { "Return Code" : "<code>", "Return String" : "<string>", { "Geo_Azimuth" : <float>, "Geo_Elevation" : <float>, "Geo_Distance" : <float> } } }
```

- **PTGeoAzEltoLLH**

**Description**

Calculates the Geo location for specific values of Geo Az/El.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGeoAzEltoLLH&Geo_Azimuth=<float>&Geo_Elevation=<float>&Alt=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTGeoAzEltoLLH": { "Return Code" : "<code>", "Return String" : "<string>", { "Lat" : <float>, "Lon" : <float> } } }
```

- **PTAutoScanLimitsSet**

**Description**

Sets autoscan limits

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanLimitsSet&Left_Azimuth=<float>&Right_Azimuth=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanLimitsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanSpeedSet**

**Description**

Sets platform's speed for autoscan

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanSpeedSet&Speed=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanSpeedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanModeOn**

**Description**

Sets autoscan mode on

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanModeOn[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanModeOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanModeOff**

**Description**

Sets autoscan mode off

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanModeOff[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanModeOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanModeGet**

**Description**

Requests

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoScan" : <integer> } } }
```

- **PTAutoScanLimitsGeoSet**

**Description**

Sets georeferenced autoscan limits

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanLimitsGeoSet&Left_Azimuth=<float>&Right_Azimuth=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanLimitsGeoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanValuesGet**

**Description**

Requests autoscan values (left limit, right limit, speed)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanValuesGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanValuesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LeftLimit" : <float>, "RightLimit" : <float>, "Speed" : <float> } } }
```

- **PTAutoScanModeRelativeSet**

**Description**

Sets the status (start/stop) of autoscan mode bu using relative parameters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanModeRelativeSet&AutoScan=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTAutoScanModeRelativeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanRelativeSpeedSet**

**Description**

Sets platform's speed for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeSpeedSet&Speed=<float>[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeSpeedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **PTAutoScanRelativeSpeedGet**

**Description**

Requests platform's speed for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeSpeedGet[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeSpeedGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Speed" : <float> } } }

- **PTAutoScanRelativeSpeedPresetSet**

**Description**

Sets platform's speed for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeSpeedPresetSet&Speed=<integer>[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeSpeedPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **PTAutoScanRelativeSpeedPresetGet**

**Description**

Requests platform's speed for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeSpeedPresetGet[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeSpeedPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Speed" : <integer> } } }

- **PTAutoScanRelativeWidthSet**

**Description**

Sets width value for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeWidthSet&Width=<float>[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeWidthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **PTAutoScanRelativeWidthGet**

**Description**

Requests width value for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeWidthGet[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeWidthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Width" : <float> } } }

- **PTAutoScanRelativeWidthPresetSet**

**Description**

Sets width preset value for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeWidthPresetSet&Width=<integer>[&DeviceID=<devId>]`

**Response**

{ "PTAutoScanRelativeWidthPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **PTAutoScanRelativeWidthPresetGet**

**Description**

Requests width preset value for relative autoscan

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeWidthPresetGet[&DeviceID=<devId>]`

**Response**

```
{ "PTAutoScanRelativeWidthPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Width" : <integer> } } }
```

- **PTAutoScanRelativeModeToggle**

**Description**

Toggles autoscan mode

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTAutoScanRelativeModeToggle\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeModeToggle[&DeviceID=<devId>])

**Response**

```
{ "PTAutoScanRelativeModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanRelativeSpeedPresetToggle**

**Description**

Toggles platform's speed for relative autoscan

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTAutoScanRelativeSpeedPresetToggle\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeSpeedPresetToggle[&DeviceID=<devId>])

**Response**

```
{ "PTAutoScanRelativeSpeedPresetToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoScanRelativeWidthPresetToggle**

**Description**

Toggles width preset value for relative autoscan

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTAutoScanRelativeWidthPresetToggle\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoScanRelativeWidthPresetToggle[&DeviceID=<devId>])

**Response**

```
{ "PTAutoScanRelativeWidthPresetToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSlaveModeOn**

**Description**

Sets slave mode on

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTSlaveModeOn\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSlaveModeOn[&DeviceID=<devId>])

**Response**

```
{ "PTSlaveModeOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSlaveModeOff**

**Description**

Sets slave mode off

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTSlaveModeOff\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSlaveModeOff[&DeviceID=<devId>])

**Response**

```
{ "PTSlaveModeOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSlaveModeGet**

**Description**

Requests platform's slave mode

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTSlaveModeGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSlaveModeGet[&DeviceID=<devId>])

**Response**

```
{ "PTSlaveModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Slave" : <integer> } } }
```

- **PTScanListPointSet**

**Description**

Sets values for a point in a scan list

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTScanListPointSet&Index=<integer>&Azimuth=<float>&Elevation=<float>&FOV=<float>&Focus=<float>&Autofocus=<integer>&Time=<integer>&Speed=<float>&Active=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointSet&Index=<integer>&Azimuth=<float>&Elevation=<float>&FOV=<float>&Focus=<float>&Autofocus=<integer>&Time=<integer>&Speed=<float>&Active=<integer>[&DeviceID=<devId>])

**Response**

```
{ "PTScanListPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointGet**

**Description**

Requests values for a point in a scan list

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float>, "FOV" : <float>, "Focus" : <float>, "Autofocus" : <integer>, "Time" : <integer>, "Speed" : <float>, "Active" : <integer>, "Exists" : <integer> } } }
```

- **PTScanListClear**

**Description**

Clears a Scan List

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListClear[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListClear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListCameraSet**

**Description**

Sets the camera associated to a scan list.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListCameraSet&Camera=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListCameraSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListCameraGet**

**Description**

Requests the camera associated to a scan list.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListCameraGet[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListCameraGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Camera" : <integer> } } }
```

- **PTScanListStart**

**Description**

Starts a scan list

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListStart[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListStop**

**Description**

Stops a scan list

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListStop[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListModeSet**

**Description**

Sets platform's scan list mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListModeGet**

**Description**

Requests platform's scan list mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTScanListPointUTMSet**

**Description**

Sets values for a point in a scan list in UTM Coordinates

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointUTMSet&Index=<integer>&UTMZoneNumber=<byte>&UTMZoneLetter=<byte>&UTMX=<float>&UTMY=<float>&UTMZ=<float>&FOV=<float>&Focus=<float>&Autofocus=<integer>&Time=<integer>&Speed=<float>&Active=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointUTMSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointUTMGet**

**Description**

Requests values for a point in a scan list in UTM coordinates

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointUTMGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointUTMGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UTMZoneNumber" : <byte>, "UTMZoneLetter" : <byte>, "UTMX" : <float>, "UTMY" : <float>, "UTMZ" : <float>, "FOV" : <float>, "Focus" : <float>, "Autofocus" : <integer>, "Time" : <integer>, "Speed" : <float>, "Active" : <integer>, "Exists" : <integer> } } }
```

- **PTScanListPointLLHSet**

**Description**

Sets values for a point in a scan list in LLH Coordinates

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointLLHSet&Index=<integer>&Latitude=<double>&Longitude=<double>&Altitude=<float>&FOV=<float>&Focus=<float>&Autofocus=<integer>&Time=<integer>&Speed=<float>&Active=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointLLHSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointLLHGet**

**Description**

Requests values for a point in a scan list in LLH coordinates

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointLLHGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointLLHGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude" : <double>, "Longitude" : <double>, "Altitude" : <float>, "FOV" : <float>, "Focus" : <float>, "Autofocus" : <integer>, "Time" : <integer>, "Speed" : <float>, "Active" : <integer>, "Exists" : <integer> } } }
```

- **PTScanListPause**

**Description**

Pauses a scan list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPause[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPause": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListResume**

**Description**

Resumes a paused scan list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListResume[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListResume": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListLoad**

**Description**

Loads a saved scan list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListLoad&ScanList=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListLoad": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListSave**

**Description**

Saves a scan list in the server with the name given

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListSave&ScanList=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListSave": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListsList**

**Description**

Requests names of scan lists saved in the server. ScanLists is a comma separated list of names

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListsList[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListsList": { "Return Code" : "<code>", "Return String" : "<string>", "ScanLists" : "<string>" } }
```

- **PTScanListDelete**

**Description**

Deletes given scan list from the server

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListDelete&ScanList=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListDelete": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointRemove**

**Description**

Removes a given point from the current server scan list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointRemove&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointGoTo**

**Description**

Goes to a given point from the current server scan list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointGoTo&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointGoTo": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointCurrentValuesSet**

**Description**

Stores current values in the preset number specified by index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointCurrentValuesSet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointCurrentValuesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointClear**

**Description**

Clears a given point from the current server scan list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointClear&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointClear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointSwap**

**Description**

Swaps two given points from the current scan list

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointSwap&Index1=<integer>&Index2=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointSwap": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointNameSet**

**Description**

Sets the name for a specific scan list point

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointNameSet&Index=<integer>&Name=<string>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointNameGet**

**Description**

Returns the current name of a specific scan list point

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointNameGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **PTScanListPointDwellingTimeSet**

**Description**

Sets the dwelling time for a specific scan list point

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointDwellingTimeSet&Index=<integer>&DwellingTimeSeconds=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointDwellingTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointSpeedSet**

**Description**

Sets the speed for a specific scan list point

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointSpeedSet&Index=<integer>&Speed=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointSpeedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListAllPointsDwellingTimeSet**

**Description**

Sets the dwelling time for all scan list points

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListAllPointsDwellingTimeSet&IDwellingTimeSeconds=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListAllPointsDwellingTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListAllPointsSpeedSet**

**Description**

Sets the speed for all scan list points

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListAllPointsSpeedSet&Speed=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListAllPointsSpeedSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTScanListPointZoomFocusPctgSet**

**Description**

Sets values for a point in a scan list Zoom and Focus in Percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointZoomFocusPctgSet&Index=<integer>&Azimuth=<float>&Elevation=<float>&Zoom_Pctg=<float>&Focus_Pctg=<float>&Autofocus=<integer>&Time=<integer>&Speed=<float>&Active=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTScanListPointZoomFocusPctgSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• PTScanListPointZoomFocusPctgGet****Description**

Gets values from a point in a scan list Zoom and Focus in Percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListPointZoomFocusPctgGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListPointZoomFocusPctgGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float>, "Zoom_Pctg" : <float>, "Focus_Pctg" : <float>, "Autofocus" : <integer>, "Time" : <integer>, "Speed" : <float>, "Active" : <integer> } } }
```

**• PTScanListAllPointsNameGet****Description**

Returns the names of all existing scan list points

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTScanListAllPointsNameGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTScanListAllPointsNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Names" : <string> } } }
```

**• PTTourClean****Description**

Removes all points in the PTZ Tour

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTTourClean&TourIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTTourClean": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• PTTourTailClean****Description**

Removes all points after a specific point index in the PTZ Tour

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTTourTailClean&TourIndex=<integer>&PointIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTTourTailClean": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• PTTourPointDelete****Description**

Removes one point from the PTZ Tour

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTTourPointDelete&TourIndex=<integer>&PointIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTTourPointDelete": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• PTTourPointSet****Description**

Sets the values for a point in the PTZ Tour

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTTourPointSet&TourIndex=<integer>&PointIndex=<integer>&PresetId=<integer>&DwellTime=<integer>&PtSpeed=<float>&ZoomSpeed=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTTourPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• PTTourPointGet****Description**

Returns the values for a point in the PTZ Tour

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTTourPointGet&TourIndex=<integer>&PointIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTTourPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PresetId" : <integer>, "DwellTime" : <integer>, "PtSpeed" : <float>, "ZoomSpeed" : <float> } } }
```

- **PTVideoSwitchEnabledGet**

**Description**

Requests state of video switch

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTVideoSwitchEnabledGet[&DeviceID=<devId>]

**Response**

```
{ "PTVideoSwitchEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTTrackModeSet**

**Description**

Sets platform's radar track mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTTrackModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTTrackModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTTrackEngageSet**

**Description**

Sets id and server of track to engage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTTrackEngageSet&RadarId=<string>&TrackId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTTrackEngageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTTrackModeGet**

**Description**

Gets platform's radar track mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTTrackModeGet[&DeviceID=<devId>]

**Response**

```
{ "PTTrackModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTTrackModeToggle**

**Description**

Toggles between platform's radar track modes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTTrackModeToggle[&DeviceID=<devId>]

**Response**

```
{ "PTTrackModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEAModeSet**

**Description**

Sets platform's radar track NMEA mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackNMEAModeSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackNMEAModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEAModeGet**

**Description**

Gets platform's radar track NMEA mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackNMEAModeGet[&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackNMEAModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTRadarTrackNMEAModeToggle**

**Description**

Toggles between enable and disable platform's radar track NMEA mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEAModeToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEAModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEA Cursor Set**

**Description**

Enables/disables platform's radar track NMEA cursor processing

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Cursor Set&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Cursor Set": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEA Cursor Get**

**Description**

Gets if platform's radar track NMEA cursor processing is enabled

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Cursor Get[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Cursor Get": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTRadarTrackNMEA Cursor Toggle**

**Description**

Toggles bewteen enabled and disabled platform's radar track NMEA cursor processing

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Cursor Toggle[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Cursor Toggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEA Waypoint Set**

**Description**

Enables/disables platform's radar track NMEA waypoint processing

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Waypoint Set&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Waypoint Set": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEA Waypoint Get**

**Description**

Gets if platform's radar track NMEA waypoint processing is enabled

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Waypoint Get[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Waypoint Get": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTRadarTrackNMEA Waypoint Toggle**

**Description**

Toggles between enable and disable platform's radar track NMEA waypoint processing

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Waypoint Toggle[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Waypoint Toggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEA Tracks Set**

**Description**

Enables/disables platform's radar track NMEA tracks processing

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEA Tracks Set&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEA Tracks Set": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackNMEATracksGet**

**Description**

Gets if platform's radar track NMEA tracks processing is enabled

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEATracksGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEATracksGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTRadarTrackNMEATracksToggle**

**Description**

Toggles between enable and disable platform's radar track NMEA tracks processing

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEATracksToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEATracksToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackDwellingTimeSet**

**Description**

Sets radar scan dwelling time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackDwellingTimeSet&Dwelling_time=<integer> [&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackDwellingTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackDwellingTimeGet**

**Description**

Gets current radar scan dwelling time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackDwellingTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackDwellingTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Dwelling_time" : <integer> } } }
```

- **PTRadarTrackingAlgorithmSet**

**Description**

Sets radar track algorithm

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackingAlgorithmSet&Algorithm=<integer> [&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackingAlgorithmSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackingAlgorithmGet**

**Description**

Gets radar track algorithm

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackingAlgorithmGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackingAlgorithmGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Algorithm" : <integer> } } }
```

- **PTRadarTrackNMEAToggleByIndex**

**Description**

Toggles between enable and disable platform's radar track NMEA processing by index

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackNMEAToggleByIndex&Index=<integer> [&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackNMEAToggleByIndex": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackFOVAdjustEnableSet**

**Description**

Enables or disables the FOV adjustment feature when engaging a target

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackFOVAdjustEnableSet&Enabled=<integer> [&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackFOVAdjustEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackFOVAdjustEnableGet**

**Description**

Gets the Enabled status of the FOV adjustment feature when engaging a target

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackFOVAdjustEnableGet[&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackFOVAdjustEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTRadarTrackFOVAdjustMetersSet**

**Description**

Sets FOV in meters when engaging a target

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackFOVAdjustMetersSet&FOVMeters=<float> [&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackFOVAdjustMetersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackFOVAdjustMetersGet**

**Description**

Gets FOV in meters when engaging a target

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackFOVAdjustMetersGet[&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackFOVAdjustMetersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FOVMeters" : <float> } } }
```

- **PTRadarTrackEngageOnAlarmEnableSet**

**Description**

Enables or disables tracks on alarm feature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackEngageOnAlarmEnableSet&Enabled=<integer> [&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackEngageOnAlarmEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackEngageOnAlarmEnableGet**

**Description**

Gets the Enabled status of the tracks on alarm feature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackEngageOnAlarmEnableGet[&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackEngageOnAlarmEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **PTRadarTrackEngageOnAlarmAreasSet**

**Description**

Sets alarm areas of interest for the tracks on alarm feature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRadarTrackEngageOnAlarmAreasSet&Areas=<string> [&DeviceID=<devId>]

**Response**

```
{ "PTRadarTrackEngageOnAlarmAreasSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackEngageOnAlarmAreasGet**

**Description**

Gets alarm areas of interest for the tracks on alarm feature

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackEngageOnAlarmAreasGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackEngageOnAlarmAreasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Areas" : "<string>" } } }
```

- **PTTrackEngageCurrentSet**

**Description**

Engages current track (when in the automatic modes like track scan or engage last/closest)

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTTrackEngageCurrentSet[&DeviceID=<devId>]`

**Response**

```
{ "PTTrackEngageCurrentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackIdleStateModeSet**

**Description**

Sets the Radar Track Idle State mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackIdleStateModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackIdleStateModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackIdleStateModeGet**

**Description**

Gets the Radar Track Idle State mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackIdleStateModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackIdleStateModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTRadarTrackIdleScanListPointSet**

**Description**

Sets the Radar Track Idle Scan List Point index

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackIdleScanListPointSet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackIdleScanListPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackIdleScanListPointGet**

**Description**

Gets the Radar Track Idle Scan List Point index

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackIdleScanListPointGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackIdleScanListPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **PTRadarTrackLockSet**

**Description**

Sets the Radar Track Lock mode to lock the current track that is being engaged until it is lost or unlock

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackLockSet&TrackLock=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackLockSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTRadarTrackLockGet**

**Description**

Gets the Radar Track Lock mode to lock the current track that is being engaged until it is lost or unlock

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTRadarTrackLockGet[&DeviceID=<devId>]`

**Response**

```
{ "PTRadarTrackLockGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TrackLock" : <integer> } } }
```

- **PTSubsystemOn**

**Description**

Turns PLAT subsystem on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSubsystemOn[&DeviceID=<devId>]

**Response**

```
{ "PTSubsystemOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSubsystemOff**

**Description**

Turns PLAT subsystem off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSubsystemOff[&DeviceID=<devId>]

**Response**

```
{ "PTSubsystemOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSubsystemPowerGet**

**Description**

Requests value of PLAT subsystem power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSubsystemPowerGet[&DeviceID=<devId>]

**Response**

```
{ "PTSubsystemPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", "Power" : <integer> } }
```

- **PTSendHome**

**Description**

Moves PLAT to Home position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSendHome[&DeviceID=<devId>]

**Response**

```
{ "PTSendHome": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSetHome**

**Description**

Stores current PLAT position (Az/EI) as Home position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSetHome[&DeviceID=<devId>]

**Response**

```
{ "PTSetHome": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSubsystemPowerSet**

**Description**

Sets value of subsystem power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSubsystemPowerSet&Power=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTSubsystemPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTSetHomeAzimuthElevation**

**Description**

Stores parameter values (Az/EI) as Home position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTSetHomeAzimuthElevation&Azimuth=<float>&Elevatio  
n=<float>[&DeviceID=<devId>]

**Response**

```
{ "PTSetHomeAzimuthElevation": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTParkSet**

**Description**

Stores current PLAT position (Az/EI) as Park position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTParkSet[&DeviceID=<devId>]

**Response**

```
{ "PTParkSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTParkAzimuthElevationSet**

**Description**

Stores parameter values (Az/EI) as Park position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTParkAzimuthElevationSet&Azimuth=<float>&Elevation=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "PTParkAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTUpSideDownSet**

**Description**

Sets the UpSide Down configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTUpSideDownSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTUpSideDownSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTUpSideDownGet**

**Description**

Requests the UpSide Down configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTUpSideDownGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTUpSideDownGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **PTHighTorqueSet**

**Description**

Sets the High Torque configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTHighTorqueSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTHighTorqueSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTHighTorqueGet**

**Description**

Requests the High Torque configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTHighTorqueGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTHighTorqueGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **PTMotorActiveStandbySet**

**Description**

Sets the state for motors during standby

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTMotorActiveStandbySet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "PTMotorActiveStandbySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTMotorActiveStandbyGet**

**Description**

Requests the state for motors during standby

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTMotorActiveStandbyGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTMotorActiveStandbyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **PTHomeGeoAzimuthElevationGet**

**Description**

Request home geo position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTHomeGeoAzimuthElevationGet[&DeviceID=<devId>]
```

**Response**

```
{ "PTHomeGeoAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float> } } }
```

- **PTHomeAzimuthElevationGet**

**Description**

Request home position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTHomeAzimuthElevationGet[&DeviceID=<devId>]

**Response**

```
{ "PTHomeAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float> } } }
```

- **PTUpSideDownToggle**

**Description**

Toggles the UpSide Down configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTUpSideDownToggle[&DeviceID=<devId>]

**Response**

```
{ "PTUpSideDownToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTUserActionBehaviorModeSet**

**Description**

Sets the User Action Behavior Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTUserActionBehaviorModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTUserActionBehaviorModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTUserActionBehaviorModeGet**

**Description**

Gets the User Action Behavior Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTUserActionBehaviorModeGet[&DeviceID=<devId>]

**Response**

```
{ "PTUserActionBehaviorModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTUserActionExitAndComeBackTimeoutSet**

**Description**

Sets the timeout to come back to the automatic mode when a user action has been done

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTUserActionExitAndComeBackTimeoutSet&ComeBackTimeout=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTUserActionExitAndComeBackTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTUserActionExitAndComeBackTimeoutGet**

**Description**

Gets the timeout to come back to the automatic mode when a user action has been done

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTUserActionExitAndComeBackTimeoutGet[&DeviceID=<devId>]

**Response**

```
{ "PTUserActionExitAndComeBackTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ComeBackTimeout" : <integer> } } }
```

- **PTHeadingHoldModeSet**

**Description**

Sets platform's heading hold mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTHeadingHoldModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "PTHeadingHoldModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTHeadingHoldModeGet**

**Description**

Requests platform's heading hold mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTHeadingHoldModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTHeadingHoldModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTGyroNullModeSet**

**Description**

Sets platform's gyro null mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroNullModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroNullModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroNullModeGet**

**Description**

Requests platform's gyro null mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroNullModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroNullModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTGyroStabilizationCalibrationAxisZSet**

**Description**

Sets Z bias angle error

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationCalibrationAxisZSet&Bias_calibration=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationCalibrationAxisZSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationCalibrationAxisZGet**

**Description**

Requests Z bias angle error

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationCalibrationAxisZGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationCalibrationAxisZGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Bias_calibration" : <float> } } }
```

- **PTGyroStabilizationCalibrationAxisXSet**

**Description**

Sets X bias angle error

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationCalibrationAxisXSet&Bias_calibration=<float>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationCalibrationAxisXSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationCalibrationAxisXGet**

**Description**

Requests X bias angle error

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationCalibrationAxisXGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationCalibrationAxisXGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Bias_calibration" : <float> } } }
```

- **PTGyroStabilizationCompensationSet**

**Description**

Sets auto compensation mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationCompensationSet&Auto_compensation=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationCompensationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationCompensationGet**

**Description**

Gets current auto compensation mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationCompensationGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationCompensationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Auto_compensation" : <integer> } } }
```

- **PTGyroStabilizationConfigPresetSet**

**Description**

Sets stabilization configuration preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationConfigPresetSet&Preset=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationConfigPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationConfigPresetGet**

**Description**

Returns current stabilization configuration preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationConfigPresetGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationConfigPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **PTGyroStabilizationConfigPresetToggle**

**Description**

Toggles stabilization configuration preset

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationConfigPresetToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationConfigPresetToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationSet**

**Description**

Sets gyrostabilization status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationSet&Status=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationGet**

**Description**

Gets gyrostabilization status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **PTAzimuthGyroStabilizationSet**

**Description**

Sets azimuth gyrostabilization status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthGyroStabilizationSet&Status=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTAzimuthGyroStabilizationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAzimuthGyroStabilizationGet**

**Description**

Gets azimuth gyrostabilization status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthGyroStabilizationGet[&DeviceID=<devId>]`

**Response**

```
{ "PTAzimuthGyroStabilizationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **PTAzimuthGyroStabilizationToggle**

**Description**

Toggles azimuth gyrostabilization status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAzimuthGyroStabilizationToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTAzimuthGyroStabilizationToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationToggle**

**Description**

Toggles gyrostabilization status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationPointSet**

**Description**

Sets gyrostabilization point status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationPointSet&Status=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationPointGet**

**Description**

Gets gyrostabilization point status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationPointGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **PTGyroStabilizationPointToggle**

**Description**

Toggles gyrostabilization point status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationPointToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationPointToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationStartupModeSet**

**Description**

Sets gyrostabilization startup mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationStartupModeGet**

**Description**

Returns gyrostabilization startup mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTGyroStabilizationStartupModeToggle**

**Description**

Toggles gyrostabilization startup mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupModeToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationStartupTiltSet**

**Description**

Sets gyrostabilization startup value for tilt stab

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupTiltSet&Stab=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupTiltSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationStartupTiltGet**

**Description**

Returns gyrostabilization startup value for tilt stab

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupTiltGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupTiltGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Stab" : <integer> } } }
```

- **PTGyroStabilizationStartupTiltToggle**

**Description**

Toggles gyrostabilization startup value for tilt stab

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupTiltToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupTiltToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationStartupPointSet**

**Description**

Sets gyrostabilization startup value for point mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupPointSet&Point=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationStartupPointGet**

**Description**

Returns gyrostabilization startup value for point mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupPointGet[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Point" : <integer> } } }
```

- **PTGyroStabilizationStartupPointToggle**

**Description**

Toggles gyrostabilization startup value for point mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationStartupPointToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationStartupPointToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTGyroStabilizationPanAndTiltToggle**

**Description**

Toggles gyrostabilization in pan and tilt status

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTGyroStabilizationPanAndTiltToggle[&DeviceID=<devId>]`

**Response**

```
{ "PTGyroStabilizationPanAndTiltToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTFunctionKeySend**

**Description**

Sends a key stroke to the pan&tilt

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTFunctionKeySend&Key=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTFunctionKeySend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTFunctionKeyPress**

**Description**

Sends a key press sequence to the pan&tilt

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTFunctionKeyPress&Key=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTFunctionKeyPress": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTFunctionKeyRelease**

**Description**

Sends a key release sequence to the pan&tilt

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTFunctionKeyRelease&Key=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTFunctionKeyRelease": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoFlipModeSet**

**Description**

Sets the Auto Flip mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoFlipModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTAutoFlipModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTAutoFlipModeGet**

**Description**

Request the Auto Flip mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTAutoFlipModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTAutoFlipModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **PTSendWasherPosition**

**Description**

Moves PLAT to Washer position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTSendWasherPosition[&DeviceID=<devId>]`

**Response**

```
{ "PTSendWasherPosition": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTWasherPositionSet**

**Description**

Stores current PLAT position (Az/EI) as Washer position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTWasherPositionSet[&DeviceID=<devId>]

**Response**

```
{ "PTWasherPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTWasherAzimuthElevationSet**

**Description**

Stores parameter values (Az/EI) as Washer position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTWasherAzimuthElevationSet&Azimuth=<float>&Elevation=<float>[&DeviceID=<devId>]

**Response**

```
{ "PTWasherAzimuthElevationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTWasherAzimuthElevationGet**

**Description**

Request washer position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTWasherAzimuthElevationGet[&DeviceID=<devId>]

**Response**

```
{ "PTWasherAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float> } } }
```

- **PTWasherGeoAzimuthElevationGet**

**Description**

Requests PLAT georeferenced azimuth and elevation of Washer position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTWasherGeoAzimuthElevationGet[&DeviceID=<devId>]

**Response**

```
{ "PTWasherGeoAzimuthElevationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Geo_Azimuth" : <float>, "Geo_Elevation" : <float> } } }
```

- **PTRawCommandSend**

**Description**

Sends a command to the PLAT

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "PTRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **PTRawCommandASCIISend**

**Description**

Sends a command to the PLAT

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTRawCommandASCIISend&cmd\_timeout=<integer>&x\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "PTRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **PTHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=PTHealthGet[&DeviceID=<devId>]

**Response**

```
{ "PTHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **PTBITEExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTBITExecute\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTBITExecute[&DeviceID=<devId>])

#### **Response**

```
{ "PTBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTBITAbort**

#### **Description**

Aborts execution of BIT routine associated to this device

#### **Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTBITAbort\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTBITAbort[&DeviceID=<devId>])

#### **Response**

```
{ "PTBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTBITResult**

#### **Description**

Requests result of last BIT routine associated to this device

#### **Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTBITResult\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTBITResult[&DeviceID=<devId>])

#### **Response**

```
{ "PTBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **PTLastNMEAGet**

#### **Description**

Requests the value of the current NMEA string of this device.

#### **Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTLastNMEAGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTLastNMEAGet[&DeviceID=<devId>])

#### **Response**

```
{ "PTLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Mode" : <integer>, "Abs_Azimuth" : <float>, "Abs_Elevation" : <float>, "Geo_Azimuth" : <float>, "Geo_Elevation" : <float>, "Speed_X" : <float>, "Speed_Y" : <float>, "Max_Velocity_X" : <float>, "Max_Acceleration_X" : <float>, "Max_Velocity_Y" : <float>, "Max_Acceleration_Y" : <float>, "ScanList_Current_Point" : <integer>, "ScanList_Current_Time" : <longint>, "Radar_Sensor_Id" : <string>, "Track_Id" : <longint>, "Gyro_Stabilization_Enabled" : <integer>, "Aiming_Sensor_Enabled" : <integer>, "Aiming_Sensor_IP_Address" : <string>, "Aiming_Sensor_Port" : <integer>, "Scan_List_Timestamp" : <string>, "Scan_List_Time_Left" : <integer>, "Scan_List_Paused" : <integer>, "PanStabilization" : <integer>, "RadarCursor" : <integer>, "RadarWaypoint" : <integer>, "RadarTracks" : <integer>, "HomeStatus" : <integer>, "RadarTrackLock" : <integer> } } }
```

- **PTLongBITResult**

#### **Description**

Requests result string of last BIT routine executed associated to this device

#### **Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTLongBITResult\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTLongBITResult[&DeviceID=<devId>])

#### **Response**

```
{ "PTLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **PTDeviceVersionGet**

#### **Description**

Requests the device version string

#### **Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTDeviceVersionGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTDeviceVersionGet[&DeviceID=<devId>])

#### **Response**

```
{ "PTDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **PTDeviceInfoGet**

#### **Description**

Requests the device info string

#### **Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=PTDeviceInfoGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTDeviceInfoGet[&DeviceID=<devId>])

#### **Response**

```
{ "PTDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **PTExpertModeSet**

#### **Description**

Sets the configuration for the Expert Communications Mode

#### **Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTExpertModeSet&OnOff=<integer>&Type=<integer>&ETX=<integer>&ERX=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTExpertModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **PTExpertModeGet**

**Description**

Requests the configuration for the Expert Communications Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTExpertModeGet[&DeviceID=<devId>]`

**Response**

```
{ "PTExpertModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Type" : <integer>, "ETX" : <integer>, "ERX" : <integer> } } }
```

- **PTExpertDataWrite**

**Description**

In Expert Mode, transmits raw data and waits for the answer

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTExpertDataWrite&CountTx=<integer>&TimeoutRx=<integer>&DataTx=<string>[&DeviceID=<devId>]`

**Response**

```
{ "PTExpertDataWrite": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : "<string>" } } }
```

- **PTExpertDataRead**

**Description**

In Expert Mode, reads raw data from the device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=PTExpertDataRead&TimeoutRx=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "PTExpertDataRead": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : "<string>" } } }
```

- **VTEngageAutoTracker**

**Description**

This command engages autotracker loop

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTEngageAutoTracker[&DeviceID=<devId>]`

**Response**

```
{ "VTEngageAutoTracker": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDisengageAutoTracker**

**Description**

This command disengages autotracker loop

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDisengageAutoTracker[&DeviceID=<devId>]`

**Response**

```
{ "VTDisengageAutoTracker": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSourceSet**

**Description**

Sets the source video for tracker

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceSet&Source=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTSourceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSourceGet**

**Description**

Requests the source video for tracker

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceGet[&DeviceID=<devId>]`

**Response**

```
{ "VTSourceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Source" : <integer> } } }
```

- **VTElectronicStabSet**

**Description**

Sets the e-stab mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTElectronicStabSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTElectronicStabSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTElectronicStabGet**

**Description**

Requests the e-stab mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTElectronicStabGet[&DeviceID=<devId>]

**Response**

```
{ "VTElectronicStabGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VTElectronicStabParamSet**

**Description**

Sets the e-stab parameter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTElectronicStabParamSet&Param=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTElectronicStabParamSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTElectronicStabParamGet**

**Description**

Requests the e-stab parameter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTElectronicStabParamGet[&DeviceID=<devId>]

**Response**

```
{ "VTElectronicStabParamGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Param" : <integer> } } }
```

- **VTElectronicStabParamIncrement**

**Description**

Increments the e-stab parameter (positive or negative)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTElectronicStabParamIncrement&Param=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTElectronicStabParamIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSourceToOutputSet**

**Description**

Sets one source video for one output

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTSourceToOutputSet&Output=<integer>&Source=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTSourceToOutputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSourceToOutputGet**

**Description**

Requests the source video for one output

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTSourceToOutputGet&Output=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTSourceToOutputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Source" : <integer> } } }
```

- **VTSourceToSecondaryOutputToggle**

**Description**

Toggles the input going through the secondary output

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceToSecondaryOutputToggle[&DeviceID=<devId>]`

**Response**

```
{ "VTSourceToSecondaryOutputToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSourceToPrimaryOutputToggle**

**Description**

Toggles the input going through the primary output

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceToPrimaryOutputToggle[&DeviceID=<devId>]`

**Response**

```
{ "VTSourceToPrimaryOutputToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTElectronicStabToggle**

**Description**

Toggles the e-stab mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTElectronicStabToggle[&DeviceID=<devId>]`

**Response**

```
{ "VTElectronicStabToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDescintillationSet**

**Description**

Sets the De-Scintillation value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationSet&Descintillation=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDescintillationGet**

**Description**

Gets the De-Scintillation value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationGet[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Descintillation" : <integer> } } }
```

- **VTDescintillationToggle**

**Description**

Toggles the De-Scintillation value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationToggle[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTEngageAutoTrackerToggle**

**Description**

This command toggles between engage and disengage autotracker loop

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTEngageAutoTrackerToggle[&DeviceID=<devId>]`

**Response**

```
{ "VTEngageAutoTrackerToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTEngageAutoTrackerPosition**

**Description**

This command engages autotracker loop setting the track initial position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTEngageAutoTrackerPosition&TargetPosX=<float>&TargetPosY=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VTEngageAutoTrackerPosition": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDescintillationParameterSet**

**Description**

Sets the De-Scintillation Parameter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationParameterSet&Parameter=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDescintillationParameterGet**

**Description**

Gets the De-Scintillation Parameter value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationParameterGet[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameter" : <integer> } } }
```

- **VTDescintillationLevelPercentageSet**

**Description**

Sets the value of the Descintillation Level percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationLevelPercentageSet&Level=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationLevelPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDescintillationLevelPercentageGet**

**Description**

Gets the value of the Descintillation Level percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationLevelPercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationLevelPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <float> } } }
```

- **VTDescintillationROISet**

**Description**

Sets the De-Scintillation ROI value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationROISet&Parameter=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationROISet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDescintillationROIGet**

**Description**

Gets the De-Scintillation ROI value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDescintillationROIGet[&DeviceID=<devId>]`

**Response**

```
{ "VTDescintillationROIGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Parameter" : <integer> } } }
```

- **VTModeSet**

**Description**

Sets the algorithm to be used by the tracker

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTModeGet**

**Description**

Requests the algorithm used by the tracker

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTModeGet[&DeviceID=<devId>]`

**Response**

```
{ "VTModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VTGateSizeSet**

**Description**

Sets gate size. Values for X and Y are equal

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTGateSizeSet&Gate\_Size=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTGateSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTGateSizeGet**

**Description**

Requests gate size.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTGateSizeGet[&DeviceID=<devId>]

**Response**

```
{ "VTGateSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gate_Size" : <integer> } } }
```

- **VTGateCustomSizeSet**

**Description**

Sets gate size in pixels x TV lines

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTGateCustomSizeSet&Gate\_Size\_X=<integer>&Gate\_Size\_Y=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTGateCustomSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTGateCustomSizeGet**

**Description**

Requests gate size in pixels x TV lines

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTGateCustomSizeGet[&DeviceID=<devId>]

**Response**

```
{ "VTGateCustomSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gate_Size_X" : <integer>, "Gate_Size_Y" : <integer> } } }
```

- **VTTrackGateSizeModeSet**

**Description**

Sets the tracking gate size mode to manual or automatic

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrackGateSizeModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTTrackGateSizeModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTrackGateSizeModeGet**

**Description**

Requests the tracking gate size mode (Manual or Automatic)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrackGateSizeModeGet[&DeviceID=<devId>]

**Response**

```
{ "VTTrackGateSizeModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VTTrackPolaritySet**

**Description**

Sets the tracking target polarity

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrackPolaritySet&Polarity=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VTTrackPolaritySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTrackPolarityGet**

**Description**

Requests the tracking target polarity

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrackPolarityGet[&DeviceID=<devId>]

**Response**

```
{ "VTTrackPolarityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Polarity" : <integer> } } }
```

- **VTTrackCoastModeSet**

**Description**

Sets the tracking coast mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTrackCoastModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTTrackCoastModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTrackCoastModeGet**

**Description**

Requests the tracking coast mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTrackCoastModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTTrackCoastModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VTModeToggle**

**Description**

Toggles the algorithm to be used by the tracker

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTModeToggle[&DeviceID=<devId>]
```

**Response**

```
{ "VTModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTarSizeSet**

**Description**

Sets Target size in pixels

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTarSizeSet&Target_Size_X=<integer>&Target_Size_Y=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTTarSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTarSizeGet**

**Description**

Requests Target size in pixels

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTarSizeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTTarSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Target_Size_X" : <integer>, "Target_Size_Y" : <integer> } } }
```

- **VTTarPosSet**

**Description**

Sets Target Pos in pixels

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTarPosSet&Target_Pos_X=<integer>&Target_Pos_Y=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTTarPosSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTarPosGet**

**Description**

Requests Target Pos in pixels

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTarPosGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTTarPosGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Target_Pos_X" : <integer>, "Target_Pos_Y" : <integer> } } }
```

- **VTTarSizeIncrementPercentage**

**Description**

Increments Target Size in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTargetSizeIncrementPercentage&Target\_Size\_X=<integer>&Target\_Size\_Y=<integer>[&DeviceID=<devId>]

**Response**

{ "VTTargetSizeIncrementPercentage": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTTargetPosIncrementPercentage**

**Description**

Increments Target Pos in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTargetPosIncrementPercentage&Target\_Pos\_X=<integer>&Target\_Pos\_Y=<integer>[&DeviceID=<devId>]

**Response**

{ "VTTargetPosIncrementPercentage": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTTargetAimpointOffsetSet**

**Description**

Sets Target Aimpoint Offset in pixels

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTargetAimpointOffsetSet&Target\_Offset\_X=<integer>&Target\_Offset\_Y=<integer>[&DeviceID=<devId>]

**Response**

{ "VTTargetAimpointOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTTargetAimpointOffsetGet**

**Description**

Requests Target Aimpoint Offset in pixels

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTargetAimpointOffsetGet[&DeviceID=<devId>]

**Response**

{ "VTTargetAimpointOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Target\_Offset\_X" : <integer>, "Target\_Offset\_Y" : <integer> } } }

- **VTTargetAimpointOffsetIncrementPercentage**

**Description**

Increments Target Aimpoint Offset in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTargetAimpointOffsetIncrementPercentage&Target\_Offset\_X=<integer>&Target\_Offset\_Y=<integer>[&DeviceID=<devId>]

**Response**

{ "VTTargetAimpointOffsetIncrementPercentage": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTTrkGateCenterSizeSet**

**Description**

Specifies center and position for Tracking Gate as FOV percentage top-left origin

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrkGateCenterSizeSet&Center\_X=<float>&Center\_Y=<float>&Size\_X=<float>&Size\_Y=<float>[&DeviceID=<devId>]

**Response**

{ "VTTrkGateCenterSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTTrkGateCenterSizeGet**

**Description**

Request center and position for Tracking Gate as FOV percentage top-left origin

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrkGateCenterSizeGet[&DeviceID=<devId>]

**Response**

{ "VTTrkGateCenterSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Center\_X" : <float>, "Center\_Y" : <float>, "Size\_X" : <float>, "Size\_Y" : <float> } } }

- **VTTrackCoastTimeoutSet**

**Description**

Sets the tracking coast timeout

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTrackCoastTimeoutSet&CoastTimeout=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTTrackCoastTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTTrackCoastTimeoutGet**

**Description**

Requests the tracking coast timeout

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTTrackCoastTimeoutGet[&DeviceID=<devId>]`

**Response**

```
{ "VTTrackCoastTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "CoastTimeout" : <integer> } } }
```

- **VTDISPLAYSET**

**Description**

Enables/disables display of Symbology & Annotation

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDISPLAYSET&Display=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTDISPLAYSET": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTDISPLAYGET**

**Description**

Requests state of display of Symbology & Annotation

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTDISPLAYGET[&DeviceID=<devId>]`

**Response**

```
{ "VTDISPLAYGET": { "Return Code" : "<code>", "Return String" : "<string>", { "Display" : <integer> } } }
```

- **VTPictureInPictureSet**

**Description**

Sets the PIP mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPictureInPictureSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTPictureInPictureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTPictureInPictureGet**

**Description**

Gets the PIP mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPictureInPictureGet[&DeviceID=<devId>]`

**Response**

```
{ "VTPictureInPictureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VTPictureInPicturePositionSet**

**Description**

Sets the PIP position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPictureInPicturePositionSet&Position=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTPictureInPicturePositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTPictureInPicturePositionGet**

**Description**

Gets the PIP position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPictureInPicturePositionGet[&DeviceID=<devId>]`

**Response**

```
{ "VTPictureInPicturePositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Position" : <integer> } } }
```

- **VTSourceToPictureInPictureSet**

**Description**

Sets one input to display in PIP

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceToPictureInPictureSet&PiPInput=<integer>[&DeviceID=<devId>]`

**Response**

{ "VTSourceToPictureInPictureSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTSourceToPictureInPictureGet**

**Description**

Gets the input displayed in PIP

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceToPictureInPictureGet[&DeviceID=<devId>]`

**Response**

{ "VTSourceToPictureInPictureGet": { "Return Code" : "<code>", "Return String" : "<string>", "PiPInput" : <integer> } }

- **VTSourceToPictureInPictureToggle**

**Description**

Toggles between two primary inputs that are not in tracking output

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSourceToPictureInPictureToggle[&DeviceID=<devId>]`

**Response**

{ "VTSourceToPictureInPictureToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTPictureInPictureToggle**

**Description**

Toggles PiP Mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPictureInPictureToggle[&DeviceID=<devId>]`

**Response**

{ "VTPictureInPictureToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTCameraToPictureInPictureGet**

**Description**

Gets the camera displayed in PIP in format deviceType,Id and string

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTCameraToPictureInPictureGet[&DeviceID=<devId>]`

**Response**

{ "VTCameraToPictureInPictureGet": { "Return Code" : "<code>", "Return String" : "<string>", "PiPCameraType" : <integer>, "PiPCamerald" : <integer>, "PiPCamera" : <string> } }

- **VTROIContentSizeSet**

**Description**

Specifies center and position for ROI as FOV percentage top-left origin

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTROIContentSizeSet&Center_X=<float>&Center_Y=<float>&Size_X=<float>&Size_Y=<float>[&DeviceID=<devId>]`

**Response**

{ "VTROIContentSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTROIContentSizeGet**

**Description**

Request center and position for ROI as FOV percentage top-left origin

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTROIContentSizeGet[&DeviceID=<devId>]`

**Response**

{ "VTROIContentSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", "Center\_X" : <float>, "Center\_Y" : <float>, "Size\_X" : <float>, "Size\_Y" : <float> } }

- **VTAutoThresholdSet**

**Description**

Sets auto threshold on/off

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAutoThresholdSet&AutoThreshold=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTAutoThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAutoThresholdGet**

**Description**

Requests state of auto threshold

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAutoThresholdGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTAutoThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoThreshold" : <integer> } } }
```

- **VTWhiteThresholdSet**

**Description**

Sets white threshold percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTWhiteThresholdSet&WhiteThreshold=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTWhiteThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTWhiteThresholdGet**

**Description**

Requests white threshold percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTWhiteThresholdGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTWhiteThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "WhiteThreshold" : <integer> } } }
```

- **VTBlackThresholdSet**

**Description**

Sets black threshold percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTBlackThresholdSet&BlackThreshold=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTBlackThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTBlackThresholdGet**

**Description**

Requests black threshold percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTBlackThresholdGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTBlackThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BlackThreshold" : <integer> } } }
```

- **VTErrorsSet**

**Description**

Sets tracks errors

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTErrorsSet&ErrorX=<float>&ErrorY=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VTErrorsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAcqAlgorithmSet**

**Description**

Sets the acquisition algorithm to be used by the tracker

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqAlgorithmSet&Algorithm=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTAcqAlgorithmSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAcqAlgorithmGet**

**Description**

Requests the acquisition algorithm to be used by the tracker

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqAlgorithmGet[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqAlgorithmGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Algorithm" : <integer> } } }
```

- **VTAcqGateCustomSizeSet**

**Description**

Sets the acquisition window size

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqGateCustomSizeSet&SizeX=<integer>&SizeY=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqGateCustomSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAcqGateCustomSizeGet**

**Description**

Requests the acquisition windows size

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqGateCustomSizeGet[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqGateCustomSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SizeX" : <integer>, "SizeY" : <integer> } } }
```

- **VTAcqPolaritySet**

**Description**

Sets the acquisition target polarity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqPolaritySet&Polarity=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqPolaritySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAcqPolarityGet**

**Description**

Requests the acquisition target polarity

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqPolarityGet[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqPolarityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Polarity" : <integer> } } }
```

- **VTAcqTargetSelectModeSet**

**Description**

Sets the acquisition target selection mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqTargetSelectModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqTargetSelectModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAcqTargetSelectModeGet**

**Description**

Requests the acquisition target selection mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqTargetSelectModeGet[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqTargetSelectModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VTAcqTargetSelectionToggle**

**Description**

Toggles to next target if TargetSelectMode is USER

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTAcqTargetSelectionToggle[&DeviceID=<devId>]`

**Response**

```
{ "VTAcqTargetSelectionToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTAcqTargetSelectionSet**

**Description**

Selects the acquisition target by number if TargetSelectMode is USER

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTAcqTargetSelectionSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

{ "VTAcqTargetSelectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTAcqGateSizeIncrementPercentage**

**Description**

Increments Acq Gate Size in percentage

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTAcqGateSizeIncrementPercentage&Target\_Size\_X=<integer>&Target\_Size\_Y=<integer>[&DeviceID=<devId>]

**Response**

{ "VTAcqGateSizeIncrementPercentage": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTAcqAlgorithmsListGet**

**Description**

Return list of algorithms available

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTAcqAlgorithmsListGet[&DeviceID=<devId>]

**Response**

{ "VTAcqAlgorithmsListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ListArray" : <string> } } }

- **VTTrkAlgorithmsListGet**

**Description**

Return list of algorithms available

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTTrkAlgorithmsListGet[&DeviceID=<devId>]

**Response**

{ "VTTrkAlgorithmsListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ListArray" : <string> } } }

- **VTAcqGateCenterSizeSet**

**Description**

Specifies center and position for Adquisiton Gate as FOV percentage top-left origin

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTAcqGateCenterSizeSet&Center\_X=<float>&Center\_Y=<float>&Size\_X=<float>&Size\_Y=<float>[&DeviceID=<devId>]

**Response**

{ "VTAcqGateCenterSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VTAcqGateCenterSizeGet**

**Description**

Request center and position for Adquisiton Gate as FOV percentage top-left origin

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTAcqGateCenterSizeGet[&DeviceID=<devId>]

**Response**

{ "VTAcqGateCenterSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Center\_X" : <float>, "Center\_Y" : <float>, "Size\_X" : <float>, "Size\_Y" : <float> } } }

- **VTRawCommandSend**

**Description**

Sends a command to the video tracker

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

{ "VTRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx\_data" : <string> } } }

- **VTRawCommandASCIISend**

**Description**

Sends a command to the video tracker

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTRawCommandASCIISend&cmd\_timeout=<integer>&x\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "VTRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **VTParametersSet**

**Description**

Sets the tracker's parameters.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTParametersSet&K1=<float>&K2=<float>&K3=<float>&K4=<float>&K5=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VTParametersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTParametersGet**

**Description**

Gets the tracker's parameters.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTParametersGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTParametersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "K1" : <float>, "K2" : <float>, "K3" : <float>, "K4" : <float>, "K5" : <float> } } }
```

- **VTParametersSave**

**Description**

Saves the tracker's parameters.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTParametersSave[&DeviceID=<devId>]
```

**Response**

```
{ "VTParametersSave": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTBlockFieldIntegerSet**

**Description**

Sets an integer value to the specified block and field

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTBlockFieldIntegerSet&Block=<integer>&Field=<integer>&Value=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTBlockFieldIntegerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTBlockFieldIntegerGet**

**Description**

Gets an integer value from the specified block and field

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTBlockFieldIntegerGet&Block=<integer>&Field=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTBlockFieldIntegerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <integer> } } }
```

- **VTBlockFieldFloatSet**

**Description**

Sets an integer value to the specified block and field

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTBlockFieldFloatSet&Block=<integer>&Field=<integer>&Value=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VTBlockFieldFloatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTBlockFieldFloatGet**

**Description**

Gets float value from the specified block and field

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTBlockFieldFloatGet&Block=<integer>&Field=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTBlockFieldFloatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <float> } } }
```

- **VTPIDAzimuthElevationParametersSet**

**Description**

Sets the tracker's PID Parameters separated for each axis.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPIDAzimuthElevationParametersSet&aP=<float>&al=<float>&aD=<float>&eP=<float>&el=<float>&eD=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VTPIDAzimuthElevationParametersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTPIDAzimuthElevationParametersGet**

**Description**

Gets the tracker's PID Parameters separated for each axis.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTPIDAzimuthElevationParametersGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTPIDAzimuthElevationParametersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "aP" : <float>, "al" : <float>, "aD" : <float>, "eP" : <float>, "el" : <float>, "eD" : <float> } } }
```

- **VTControlLoopPresetIdSet**

**Description**

Sets the closed loop control preset to be used by the tracker

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTControlLoopPresetIdSet&Preset_Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTControlLoopPresetIdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTControlLoopPresetIdGet**

**Description**

Requests the closed loop control preset to be used by the tracker

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTControlLoopPresetIdGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTControlLoopPresetIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset_Id" : <integer> } } }
```

- **VTSubsystemOn**

**Description**

Turns VT subsystem on

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSubsystemOn[&DeviceID=<devId>]
```

**Response**

```
{ "VTSubsystemOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSubsystemOff**

**Description**

Turns VT subsystem off

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSubsystemOff[&DeviceID=<devId>]
```

**Response**

```
{ "VTSubsystemOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSubsystemPowerGet**

**Description**

Requests value of VT subsystem power

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSubsystemPowerGet[&DeviceID=<devId>]
```

**Response**

```
{ "VTSubsystemPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Power" : <integer> } } }
```

- **VTSubsystemPowerSet**

**Description**

Sets value of subsystem power

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VTSubsystemPowerSet&Power=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VTSubsystemPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTSubsystemOnOffToggle**

**Description**

Toggles VT subsystem on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTSubsystemOnOffToggle[&DeviceID=<devId>]

**Response**

```
{ "VTSubsystemOnOffToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTHealthGet[&DeviceID=<devId>]

**Response**

```
{ "VTHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **VTBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTBITExecute[&DeviceID=<devId>]

**Response**

```
{ "VTBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTBITAbort**

**Description**

Aborts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTBITAbort[&DeviceID=<devId>]

**Response**

```
{ "VTBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VTBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTBITResult[&DeviceID=<devId>]

**Response**

```
{ "VTBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **VTLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "VTLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Engaged" : <integer>, "Tracking_State" : <integer>, "Status" : <integer>, "Track_error_X" : <float>, "Track_error_Y" : <float>, "Track_mode" : <integer>, "Target_Polarity" : <integer>, "Gate_Size_X" : <integer>, "Gate_Size_Y" : <integer>, "Plat_Id" : <integer>, "Analog_Input_type_0" : <integer>, "Analog_Input_id_0" : <integer>, "Analog_Input_type_1" : <integer>, "Analog_Input_id_1" : <integer>, "Source" : <integer>, "Display" : <integer>, "Auto_threshold" : <integer>, "White_threshold" : <integer>, "Black_threshold" : <integer>, "eStab" : <integer>, "Power" : <integer>, "Target_Size_X" : <integer>, "Target_Size_Y" : <integer>, "Acquisition_Mode" : <integer>, "Gate_Pos_X" : <integer>, "Gate_Pos_Y" : <integer>, "Analog_Input_type_2" : <integer>, "Analog_Input_id_2" : <integer>, "Source_1" : <integer>, "PixelsX" : <float>, "PixelsY" : <float>, "TargetId" : <string> } } }
```

- **VTLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "VTLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **VTDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "VTDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **VTDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VTDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "VTDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **OSDMenuOn**

**Description**

Shows OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuOn[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuOff**

**Description**

Hides OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuOff[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuUp**

**Description**

Moves to next option of OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuUp[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuUp": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuDown**

**Description**

Moves to previous option of OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuDown[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuDown": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuSelect**

**Description**

Selects highlighted option of menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuSelect[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuSelect": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuOnOffGet**

**Description**

Requests OSD menu state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDMenuCancel**

**Description**

Returns to previous menu or exits

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuCancel[&DeviceID=<devId>]

**Response**

{ "OSDMenuCancel": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDFunctionKeySend**

**Description**

Sends a key stroke to the OSD

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDFunctionKeySend&Key=<integer>[&DeviceID=<devId>]

**Response**

{ "OSDFunctionKeySend": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDFunctionKeyPress**

**Description**

Sends a key press sequence to the osd

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDFunctionKeyPress&Key=<integer>[&DeviceID=<devId>]

**Response**

{ "OSDFunctionKeyPress": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDFunctionKeyRelease**

**Description**

Sends a key release sequence to the osd

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDFunctionKeyRelease&Key=<integer>[&DeviceID=<devId>]

**Response**

{ "OSDFunctionKeyRelease": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDMenuOnByName**

**Description**

Shows corresponding OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuOnByName&Name=<string>[&DeviceID=<devId>]

**Response**

{ "OSDMenuOnByName": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDMenuOnById**

**Description**

Shows corresponding OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuOnById&Menuld=<integer>[&DeviceID=<devId>]

**Response**

{ "OSDMenuOnById": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDMenuToggle**

**Description**

Toggles OSD menu state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuToggle[&DeviceID=<devId>]

**Response**

{ "OSDMenuToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDMenuLeft**

**Description**

Go to left editable digit or cancel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuLeft[&DeviceID=<devId>]

**Response**

{ "OSDMenuLeft": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **OSDMenuRight**

**Description**

Go to right editable digit or select

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuRight[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuRight": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuPanTiltEnabledSet**

**Description**

Setts Pan and Tilt permission status during OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuPanTiltEnabledSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuPanTiltEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDMenuPanTiltEnabledGet**

**Description**

Requests Pan and Tilt permission status during OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDMenuPanTiltEnabledGet[&DeviceID=<devId>]

**Response**

```
{ "OSDMenuPanTiltEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **OSDSaveDefaultSettings**

**Description**

Saves current OSD settings as default for reboot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDSaveDefaultSettings[&DeviceID=<devId>]

**Response**

```
{ "OSDSaveDefaultSettings": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDRestoreDefaultSettings**

**Description**

Restores saved default OSD settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDRestoreDefaultSettings[&DeviceID=<devId>]

**Response**

```
{ "OSDRestoreDefaultSettings": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDGEOOnOffSet**

**Description**

OSD can show georeferenced position information. This function enables and disables this option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDGEOOnOffSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDGEOOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDGEOOnOffGet**

**Description**

Requests state of the georeference option of the OSD menu

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDGEOOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "OSDGEOOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDGEOFormatSet**

**Description**

Georeference information can be shown in UTM or LAT/LON coordinates. This functions sets the format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDGEOFormatSet&Format=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDGEOFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDGEOFormatGet**

**Description**

Requests the format of the georeferenced position information displayed

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDGEOFormatGet[&DeviceID=<devId>]

**Response**

```
{ "OSDGEOFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **OSDAzEIOnOffSet**

**Description**

OSD can display information of the platform's azimuth and elevation values. This function enables and disables this option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDAzEIOnOffSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDAzEIOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDAzEIOnOffGet**

**Description**

Requests state of AzEl option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDAzEIOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "OSDAzEIOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDAzEIFormatSet**

**Description**

Sets format of AzEl option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDAzEIFormatSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDAzEIFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDAzEIFormatGet**

**Description**

Requests format of AzEl option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDAzEIFormatGet[&DeviceID=<devId>]

**Response**

```
{ "OSDAzEIFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDLabelOnOffSet**

**Description**

OSD can display a label. This function enables and disables this option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelOnOffSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelOnOffGet**

**Description**

Requests label option state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDLabelContentSet**

**Description**

Sets content of label to be displayed

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelContentSet&Content=<string>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelContentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelContentGet**

**Description**

Requests content of label

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelContentGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelContentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Content" : <string> } } }
```

- **OSDLabelByIdOnOffSet**

**Description**

OSD can display a label. This function enables and disables this option

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdOnOffSet&Id=<integer>&OnOff=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdOnOffGet**

**Description**

Requests label option state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdOnOffGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDLabelByIdContentSet**

**Description**

Sets content of label to be displayed

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdContentSet&Id=<integer>&Content=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdContentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdContentGet**

**Description**

Requests content of label

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdContentGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdContentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Content" : <string> } } }
```

- **OSDLabelByIdLocationSet**

**Description**

OSD can display labels. This function modifies the location on the screen

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdLocationSet&Id=<integer>&X=<integer>&Y=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdLocationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdLocationGet**

**Description**

Requests label location coordinates

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdLocationGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdLocationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer> } } }
```

- **OSDLabelByIdSizeSet**

**Description**

OSD can display a label. This function sets the size

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdSizeSet&Id=<integer>&Size=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdSizeGet**

**Description**

Requests the label size

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdSizeGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Size" : <integer> } } }
```

- **OSDLabelByIdColorSet**

**Description**

Sets the label color

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdColorSet&Id=<integer>&Color=<string>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdColorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdColorGet**

**Description**

Requests the label color

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdColorGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdColorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Color" : <string> } } }
```

- **OSDLabelByIdBackgroundColorSet**

**Description**

Sets the background label color

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdBackgroundColorSet&Id=<integer>&Color=<string>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdBackgroundColorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdBackgroundColorGet**

**Description**

Requests the background label color

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdBackgroundColorGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdBackgroundColorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Color" : <string> } } }
```

- **OSDLabelByIdBoldSet**

**Description**

Sets the label bold text

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLabelByIdBoldSet&Id=<integer>&Bold=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLabelByIdBoldSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLabelByIdBoldGet**

**Description**

Requests the label bold text

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLabelByIdBoldGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLabelByIdBoldGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Bold" : <integer> } } }
```

- **OSDDateOnOffSet**

**Description**

OSD can display the current date. This function enables and disables this option

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDDateOnOffSet&OnOff=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDDateOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDDateOnOffGet**

**Description**

Requests date option state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDDateOnOffGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDDateOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDDateFormatSet**

**Description**

This function selects different format for date display

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDDateFormatSet&Format=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDDateFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDDateFormatGet**

**Description**

Requests date display format

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDDateFormatGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDDateFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **OSDLRFOnOffSet**

**Description**

OSD can display the current LRF data. This function enables and disables this option

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLRFOnOffSet&OnOff=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLRFOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLRFOnOffGet**

**Description**

Requests LRF option state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLRFOnOffGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLRFOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDLRFFormatSet**

**Description**

This function selects different format for LRF display

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLRFFormatSet&Format=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLRFFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLRFFFormatGet**

**Description**

Requests LRF display format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLRFFFormatGet[&DeviceID=<devId>]

**Response**

```
{ "OSDLRFFFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **OSDLRFAutoSet**

**Description**

This function sets the automatic mode for the LRF option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLRFAutoSet&AutoOnOff=<integer>&Mode=<integer>&Time=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDLRFAutoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLRFAutoGet**

**Description**

This function requests the automatic mode parameters for the LRF option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLRFAutoGet[&DeviceID=<devId>]

**Response**

```
{ "OSDLRFAutoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoOnOff" : <integer>, "Mode" : <integer>, "Time" : <integer> } } }
```

- **OSDCrosshairOnOffSet**

**Description**

OSD can display a crosshair. This function enables and disables this option

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDCrosshairOnOffSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDCrosshairOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDCrosshairOnOffGet**

**Description**

Requests Crosshair option state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDCrosshairOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "OSDCrosshairOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **OSDCrosshairPositionSet**

**Description**

Sets the Crosshair position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDCrosshairPositionSet&PositionX=<integer>&PositionY=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDCrosshairPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDCrosshairPositionGet**

**Description**

Requests the Crosshair position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDCrosshairPositionGet[&DeviceID=<devId>]

**Response**

```
{ "OSDCrosshairPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PositionX" : <integer>, "PositionY" : <integer> } } }
```

- **OSDOverlaySet**

**Description**

Sets the overlay state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDOverlaySet&State=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDOverlaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDOverlayGet**

**Description**

Requests the overlay state

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDOverlayGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDOverlayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **OSDCrosshairToggle**

**Description**

Toggles the value of crosshair

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDCrosshairToggle[&DeviceID=<devId>]
```

**Response**

```
{ "OSDCrosshairToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDPointerSet**

**Description**

Sets pointer in overlay

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDPointerSet&Pointer=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDPointerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDPointerGet**

**Description**

Requests Pointer status in overlay

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDPointerGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDPointerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Pointer" : <integer> } } }
```

- **OSDPointerToggle**

**Description**

Toggles pointer in overlay

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDPointerToggle[&DeviceID=<devId>]
```

**Response**

```
{ "OSDPointerToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDPointerPositionSet**

**Description**

Sets pointer position in overlay

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDPointerPositionSet&x=<integer>&y=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDPointerPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDPointerPositionGet**

**Description**

Requests pointer position in overlay

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDPointerPositionGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDPointerPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "x" : <integer>, "y" : <integer> } } }
```

- **OSDPointerPositionPercentageSet**

**Description**

Sets pointer percentage position in overlay

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDPointerPositionPercentageSet&x=<float>&y=<float> [&DeviceID=<devId>]

**Response**

```
{ "OSDPointerPositionPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDPointerpositionPercentageGet**

**Description**

Requests pointer percentage position in overlay

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDPointerpositionPercentageGet[&DeviceID=<devId>]

**Response**

```
{ "OSDPointerpositionPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "x" : <float>, "y" : <float> } } }
```

- **OSDTemperatureUnitsSet**

**Description**

Sets the unit to display temperature measurements

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDTemperatureUnitsSet&Units=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDTemperatureUnitsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDTemperatureUnitsGet**

**Description**

Returns the unit to display temperature measurements

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDTemperatureUnitsGet[&DeviceID=<devId>]

**Response**

```
{ "OSDTemperatureUnitsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Units" : <integer> } } }
```

- **OSDHelpTextEnabledSet**

**Description**

Enables / disables help texts

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDHelpTextEnabledSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDHelpTextEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDHelpTextEnabledGet**

**Description**

Returns current help text status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDHelpTextEnabledGet[&DeviceID=<devId>]

**Response**

```
{ "OSDHelpTextEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **OSDHelpTextEnabledToggle**

**Description**

Toggles help text status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDHelpTextEnabledToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDHelpTextEnabledToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLanguageSet**

**Description**

Sets the OSD language

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLanguageSet&Language=<string>[&DeviceID=<devId>]

**Response**

```
{ "OSDLanguageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDLanguageGet**

**Description**

Returns the OSD language

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLanguageGet[&DeviceID=<devId>]

**Response**

```
{ "OSDLanguageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Language" : <string> } } }
```

- **OSDVAEnableSet**

**Description**

Sets VA OSD enabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDVAEnableSet&VAEnabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDVAEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDVAEnableGet**

**Description**

Returns VA OSD enabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDVAEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDVAEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "VAEnabled" : <integer> } } }
```

- **OSDVAEnableToggle**

**Description**

Toggles VA OSD enabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDVAEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDVAEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDReset**

**Description**

Resets OSD card

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDReset[&DeviceID=<devId>]

**Response**

```
{ "OSDReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDClearDisplay**

**Description**

Clears display

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDClearDisplay[&DeviceID=<devId>]

**Response**

```
{ "OSDClearDisplay": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconsLevelSet**

**Description**

Sets the level for OSD icons

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconsLevelSet&Level=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconsLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconsLevelGet**

**Description**

Gets the level for OSD icons

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconsLevelGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconsLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <integer> } } }
```

- **OSDIconsLevelToggle**

**Description**

Toggles the level for OSD icons

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconsLevelToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconsLevelToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconPCEnableSet**

**Description**

Sets the PC icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconPCEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconPCEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconPCEnableGet**

**Description**

Gets the PC icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconPCEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconPCEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconPCEnableToggle**

**Description**

Toggles the PC icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconPCEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconPCEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconJCUEnableSet**

**Description**

Sets the JCU icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconJCUEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconJCUEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconJCUEnableGet**

**Description**

Gets the JCU icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconJCUEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconJCUEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconJCUEnableToggle**

**Description**

Toggles the JCU icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconJCUEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconJCUEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconAzimuthEnableSet**

**Description**

Sets the Azimuth icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconAzimuthEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconAzimuthEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconAzimuthEnableGet**

**Description**

Gets the Azimuth icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconAzimuthEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconAzimuthEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconAzimuthEnableToggle**

**Description**

Toggles the Azimuth icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconAzimuthEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconAzimuthEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconElevationEnableSet**

**Description**

Sets the Elevation icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconElevationEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconElevationEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconElevationEnableGet**

**Description**

Gets the Elevation icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconElevationEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconElevationEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconElevationEnableToggle**

**Description**

Toggles the Elevation icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconElevationEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconElevationEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconsStabilizationEnableSet**

**Description**

Sets the Stabilization icons

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconsStabilizationEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconsStabilizationEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconStabilizationEnableGet**

**Description**

Gets the Stabilization icons

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconStabilizationEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconStabilizationEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconStabilizationEnableToggle**

**Description**

Toggles the Stabilization icons

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconStabilizationEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconStabilizationEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDThemeSet**

**Description**

Sets the layout theme

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDThemeSet&Theme=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDThemeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDThemeGet**

**Description**

Returns current layout theme

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDThemeGet[&DeviceID=<devId>]

**Response**

```
{ "OSDThemeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Theme" : <integer> } } }
```

- **OSDIconFLIREnableSet**

**Description**

Sets the FLIR icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconFLIREnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconFLIREnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconFLIREnableGet**

**Description**

Gets the FLIR icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconFLIREnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconFLIREnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconFLIREnableToggle**

**Description**

Toggles the FLIR icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconFLIREnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconFLIREnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconCameraEnableSet**

**Description**

Sets the Camera icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconCameraEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDIconCameraEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDIconCameraEnableGet**

**Description**

Gets the Camera icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconCameraEnableGet[&DeviceID=<devId>]

**Response**

```
{ "OSDIconCameraEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **OSDIconCameraEnableToggle**

**Description**

Toggles the Camera icon

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDIconCameraEnableToggle[&DeviceID=<devId>]

**Response**

```
{ "OSDIconCameraEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDRawCommandSend**

**Description**

Sends a command to the OSD

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **OSDRawCommandASCIISend**

**Description**

Sends a command to the OSD

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **OSDHealthGet**

**Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **OSDBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDBITExecute[&DeviceID=<devId>]
```

**Response**

```
{ "OSDBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDBITAbort**

**Description**

Aborts execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDBITAbort[&DeviceID=<devId>]
```

**Response**

```
{ "OSDBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "OSDBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **OSDLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDLastNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "OSDLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Show_Menu" : <integer>, "Show_Date" : <integer>, "Show_Label" : <integer>, "Show_GEO" : <integer>, "GEO_format" : <integer>, "Show_Az/EI" : <integer>, "Az/EI_format" : <integer>, "Video_Signal" : <integer>, "Camera_type" : <integer>, "Camera_id" : <integer>, "Theme" : <integer>, "IconLevel" : <integer>, "TemperatureUnits" : <integer>, "HelpTextEnabled" : <integer>, "Language" : <string>, "Show_FLIR_Icon" : <integer>, "Show_Camera_Icon" : <integer>, "VA_Enabled" : <integer> } } }
```

- **OSDLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "OSDLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **OSDDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "OSDDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **OSDDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "OSDDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **OSDWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDWebSettingsSet&Settings=<string>[&DeviceID=<devId>]

**Response**

```
{ "OSDWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **OSDWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDWebSettingsGet[&DeviceID=<devId>]

**Response**

```
{ "OSDWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **OSDRestoreFactoryDefault**

**Description**

Restores factory default settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDRestoreFactoryDefault[&DeviceID=<devId>]

**Response**

```
{ "OSDRestoreFactoryDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDExpertModeSet**

**Description**

Sets the configuration for the Expert Communications Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDExpertModeSet&OnOff=<integer>&Type=<integer>&ETX=<integer>&ERX=<integer>[&DeviceID=<devId>]

**Response**

```
{ "OSDExpertModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **OSDExpertModeGet**

**Description**

Requests the configuration for the Expert Communications Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=OSDExpertModeGet[&DeviceID=<devId>]

**Response**

```
{ "OSDExpertModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Type" : <integer>, "ETX" : <integer>, "ERX" : <integer> } } }
```

- **OSDExpertDataWrite**

**Description**

In Expert Mode, transmits raw data and waits for the answer

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDExpertDataWrite&CountTx=<integer>&TimeoutRx=<integer>&DataTx=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDExpertDataWrite": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : "<string>" } } }
```

- **OSDExpertDataRead**

**Description**

In Expert Mode, reads raw data from the device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=OSDExpertDataRead&TimeoutRx=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "OSDExpertDataRead": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : "<string>" } } }
```

- **GEOUTMPositionSet**

**Description**

Sets the position of the sensor to be used for all Georeferenced operations using UTM format.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOUTMPositionSet&UTM_Zone_Number=<byte>&UTM_Zone_Letter=<byte>&X_UTM_Coordinate=<longint>&Y_UTM_Coordinate=<longint>&Height=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOUTMPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOUTMPositionGet**

**Description**

Requests the position fixed for the Sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOUTMPositionGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOUTMPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UTM_Zone_Number" : <byte>, "UTM_Zone_Letter" : <byte>, "X_UTM_Coordinate" : <longint>, "Y_UTM_Coordinate" : <longint>, "Height" : <integer> } } }
```

- **GEOllhPositionSet**

**Description**

Sets the position of the Sensor to be used for all Georeferenced operations using llh format

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOllhPositionSet&Latitude_Degrees=<byte>&Latitude_Sign=<byte>&Latitude_Minutes=<byte>&Latitude_Seconds=<byte>&Latitude_Millisecs=<integer>&Longitude_Degrees=<byte>&Longitude_Sign=<byte>&Longitude_Minutes=<byte>&Longitude_Seconds=<byte>&Longitude_Millisecs=<integer>&Altitude=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOllhPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOllhPositionGet**

**Description**

Requests the position of the Sensor that is currently being used, in llh format

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOllhPositionGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOllhPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude_Degrees" : <byte>, "Latitude_Sign" : <byte>, "Latitude_Minutes" : <byte>, "Latitude_Seconds" : <byte>, "Latitude_Millisecs" : <integer>, "Longitude_Degrees" : <byte>, "Longitude_Sign" : <byte>, "Longitude_Minutes" : <byte>, "Longitude_Seconds" : <byte>, "Longitude_Millisecs" : <integer>, "Altitude" : <integer> } } }
```

- **GEOGPSUTMPositionGet**

**Description**

Requests the current position reading from the GPS in UTM format

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGPSUTMPositionGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOGPSUTMPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UTM_Zone_Number" : <byte>, "UTM_Zone_Letter" : <byte>, "X_UTM_Coordinate" : <longint>, "Y_UTM_Coordinate" : <longint>, "Height" : <integer>, "Height_Error" : <integer>, "GPS_Mode" : <byte>, "Number_Satellites" : <byte> } } }
```

- **GEOGPSIIhPositionGet**

**Description**

Requests the current position reading from the GPS in IIh format

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGPSIIhPositionGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOGPSIIhPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude_Degrees" : <byte>, "Latitude_Sign" : <byte>, "Latitude_Minutes" : <byte>, "Latitude_Seconds" : <byte>, "Latitude_Millisecs" : <integer>, "Longitude_Degrees" : <byte>, "Longitude_Sign" : <byte>, "Longitude_Minutes" : <byte>, "Longitude_Seconds" : <byte>, "Longitude_Millisecs" : <integer>, "Altitude" : <integer>, "Height_Error" : <integer>, "GPS_Mode" : <byte>, "Number_Satellites" : <byte> } } }
```

- **GEOGPSPositionDataApply**

**Description**

Validates the position values provided by the GPS to be used as calibration data for all georeferenced operations

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGPSPositionDataApply[&DeviceID=<devId>]`

**Response**

```
{ "GEOGPSPositionDataApply": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOGPSPDataApplyModeSet**

**Description**

Sets GPS data apply mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGPSPDataApplyModeSet&mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GEOGPSPDataApplyModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOGPSPDataApplyModeGet**

**Description**

Requests GPS data apply mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGPSPDataApplyModeGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOGPSPDataApplyModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "mode" : <integer> } } }
```

- **GEOAltitudeSet**

**Description**

Sets the altitude of the Sensor to be used for all Georeferenced operations

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOAltitudeSet&Altitude=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GEOAltitudeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOAltitudeGet**

**Description**

Requests the altitude of the Sensor that is currently being used

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOAltitudeGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOAltitudeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Altitude" : <integer> } } }
```

- **GEOUTMPositionSet2**

**Description**

Sets the position of the sensor to be used for all Georeferenced operations using UTM format.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOUTMPositionSet2&UTM_Zone_Number=<byte>&UTM_Zone_Letter=<byte>&X_UTM_Coordinate=<double>&Y_UTM_Coordinate=<double>&Height=<double>[&DeviceID=<devId>]`

**Response**

```
{ "GEOUTMPositionSet2": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOUTMPositionGet2**

**Description**

Requests the position fixed for the Sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOUTMPositionGet2[&DeviceID=<devId>]`

**Response**

```
{ "GEOUTMPositionGet2": { "Return Code" : "<code>", "Return String" : "<string>", { "UTM_Zone_Number" : <byte>, "UTM_Zone_Letter" : <byte>, "X_UTM_Coordinate" : <double>, "Y_UTM_Coordinate" : <double>, "Height" : <double> } } }
```

- **GEOIIhPositionSet2**

**Description**

Sets the position of the Sensor to be used for all Georeferenced operations using IIh format

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOIIhPositionSet2&Latitude_Degrees=<byte>&Latitude_Sign=<byte>&Latitude_Minutes=<byte>&Latitude_Seconds=<byte>&Latitude_Millisecs=<integer>&Longitude_Degrees=<byte>&Longitude_Sign=<byte>&Longitude_Minutes=<byte>&Longitude_Seconds=<byte>&Longitude_Millisecs=<integer>&Altitude=<double>[&DeviceID=<devId>]`

**Response**

```
{ "GEOIIhPositionSet2": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOIIhPositionGet2**

**Description**

Requests the position of the Sensor that is currently being used, in IIh format

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOIIhPositionGet2[&DeviceID=<devId>]`

**Response**

```
{ "GEOIIhPositionGet2": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude_Degrees" : <byte>, "Latitude_Sign" : <byte>, "Latitude_Minutes" : <byte>, "Latitude_Seconds" : <byte>, "Latitude_Millisecs" : <integer>, "Longitude_Degrees" : <byte>, "Longitude_Sign" : <byte>, "Longitude_Minutes" : <byte>, "Longitude_Seconds" : <byte>, "Longitude_Millisecs" : <integer>, "Altitude" : <double> } } }
```

- **GEOAltitudeSet2**

**Description**

Sets the altitude of the Sensor to be used for all Georeferenced operations

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOAltitudeSet2&Altitude=<double>[&DeviceID=<devId>]`

**Response**

```
{ "GEOAltitudeSet2": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOAltitudeGet2**

**Description**

Requests the altitude of the Sensor that is currently being used

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOAltitudeGet2[&DeviceID=<devId>]`

**Response**

```
{ "GEOAltitudeGet2": { "Return Code" : "<code>", "Return String" : "<string>", { "Altitude" : <double> } } }
```

- **GEOGroundAltitudeSet**

**Description**

Sets the ground altitude at the Sensor location

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGroundAltitudeSet&Altitude=<float>[&DeviceID=<devId>]`

**Response**

```
{ "GEOGroundAltitudeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOGroundAltitudeGet**

**Description**

Requests the ground altitude at Sensor location

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOGroundAltitudeGet[&DeviceID=<devId>]

**Response**

```
{ "GEOGroundAltitudeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Altitude" : <float> } } }
```

- **GEOInstallationHeightSet**

**Description**

Sets the installation height for the sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOInstallationHeightSet&Height=<float>[&DeviceID=<devId>]

**Response**

```
{ "GEOInstallationHeightSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOInstallationHeightGet**

**Description**

Requests the sensor installation height

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOInstallationHeightGet[&DeviceID=<devId>]

**Response**

```
{ "GEOInstallationHeightGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Height" : <float> } } }
```

- **GEODEMEnabledSet**

**Description**

Enables/disables Digital Elevation Model

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEODEMEnabledSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "GEODEMEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEODEMEnabledGet**

**Description**

Requests the Digital Elevation Model status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEODEMEnabledGet[&DeviceID=<devId>]

**Response**

```
{ "GEODEMEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **GEODEMLocationTerrainAltitudeGet**

**Description**

Returns terrain altitude value for a specific location

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEODEMLocationTerrainAltitudeGet&Latitude=<double>&Longitude=<double>[&DeviceID=<devId>]

**Response**

```
{ "GEODEMLocationTerrainAltitudeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Altitude" : <float> } } }
```

- **GEODEMAreaGet**

**Description**

Returns coverage area for Digital Elevation Model

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEODEMAreaGet[&DeviceID=<devId>]

**Response**

```
{ "GEODEMAreaGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude1" : <double>, "Longitude1" : <double>, "Latitude2" : <double>, "Longitude2" : <double> } } }
```

- **GEOOrientationSet**

**Description**

References the zero azimuth of the Sensor to true North

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOOrientationSet&Azimuth=<float>[&DeviceID=<devId>]

**Response**

```
{ "GEOOrientationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOOrientationGet**

**Description**

Requests the currently used zero azimuth of the Sensor, referenced to true North

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOOrientationGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOOrientationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float> } } }
```

- **GEODeltaAzimuthSet**

**Description**

Sets the value to be used as differential angle between the Gyrocompass and Sensor installation.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEODeltaAzimuthSet&Delta_Azimuth=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "GEODeltaAzimuthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEODeltaAzimuthGet**

**Description**

Requests the currently used delta azimuth of the Sensor, referenced to the Gyrocompass installation.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEODeltaAzimuthGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEODeltaAzimuthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Delta_Azimuth" : <float> } } }
```

- **GEOMagneticDeviationSet**

**Description**

Sets the value to be used as magnetic deviation to convert Gyrocompass readings to true North

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMagneticDeviationSet&Magnetic_Deviation=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMagneticDeviationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOMagneticDeviationGet**

**Description**

Requests the currently used magnetic deviation value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMagneticDeviationGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMagneticDeviationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Magnetic_Deviation" : <float> } } }
```

- **GEOGyrocompassInstallationErrorSet**

**Description**

Sets the value to be used as error in the Gyrocompass readings due to installation

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGyrocompassInstallationErrorSet&Gyrocompass_Error=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOGyrocompassInstallationErrorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOGyrocompassInstallationErrorGet**

**Description**

Requests the currently used value of the error in the Gyrocompass readings due to installation

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGyrocompassInstallationErrorGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOGyrocompassInstallationErrorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gyrocompass_Error" : <float> } } }
```

- **GEOGyrocompassAzimuthGet**

**Description**

Requests the azimuth reading of the Gyrocompass sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGyrocompassAzimuthGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOGyrocompassAzimuthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gyrocompass_Azimuth" : <float> } } }
```

- **GEOGyrocompassOrientationDataApply**

**Description**

Validates the orientation values provided by the Gyrocompass to be used as calibration data for all georeferenced operations. The value applied as absolute orientation is calculated out of the Gyrocompass reading, the magnetic deviation, delta azimuth between the Gyrocompass and platform installations and Gyrocompass error due to installations.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGyrocompassOrientationDataApply[&DeviceID=<devId>]`

**Response**

```
{ "GEOGyrocompassOrientationDataApply": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOGyrocompassDataApplyModeSet**

**Description**

Sets Gyrocompass data apply mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGyrocompassDataApplyModeSet&mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GEOGyrocompassDataApplyModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOGyrocompassDataApplyModeGet**

**Description**

Requests Gyrocompass data apply mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOGyrocompassDataApplyModeGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOGyrocompassDataApplyModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "mode" : <integer> } } }
```

- **GEORelativeLocationHeightOffsetSet**

**Description**

Sets the relative height

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEORelativeLocationHeightOffsetSet&Height_Offset=<float>[&DeviceID=<devId>]`

**Response**

```
{ "GEORelativeLocationHeightOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEORelativeLocationHeightOffsetGet**

**Description**

Requests the currently relative height

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEORelativeLocationHeightOffsetGet[&DeviceID=<devId>]`

**Response**

```
{ "GEORelativeLocationHeightOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Height_Offset" : <float> } } }
```

- **GEOLEVELInclinationSet**

**Description**

Sets the absolute inclination values of the Sensor installation to complete calibration of all georeferenced operations.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOLEVELInclinationSet&Longitudinal_inclination=<float>&Transverse_inclination=<float>[&DeviceID=<devId>]`

**Response**

```
{ "GEOLEVELInclinationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOLEVELInclinationGet**

**Description**

Requests the absolute inclination values currently used to complete calibration of all georeferenced operations.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOLEVELInclinationGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOLEVELInclinationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Longitudinal_inclination" : <float>, "Transverse_inclination" : <float> } } }
```

- **GEOLEVELInclinometersGet**

**Description**

Requests the inclination readings of the Inclinometers Set sensor.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOLEVELInclinometersGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOLEVELInclinometersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Longitudinal_inclination" : <float>, "Transverse_inclination" : <float> } } }
```

- **GEOLEVELInclinometersDataApply**

**Description**

Validates the two axis inclination values provided by the Inclinometer Set to be used as complementary calibration data for all georeferenced operations.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOLEVELInclinometersDataApply[&DeviceID=<devId>]
```

**Response**

```
{ "GEOLEVELInclinometersDataApply": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOLEVELInclinometersDataApplyModeSet**

**Description**

Sets Gyrocompass data apply mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOLEVELInclinometersDataApplyModeSet&mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOLEVELInclinometersDataApplyModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOLEVELInclinometersDataApplyModeGet**

**Description**

Requests Gyrocompass data apply mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOLEVELInclinometersDataApplyModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOLEVELInclinometersDataApplyModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "mode" : <integer> } } }
```

- **GEOMAPInitialize**

**Description**

Initializes map information from existing files

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPInitialize[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPInitialize": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOMAPCalibrationPointsSet**

**Description**

Calibrates the map using the information provided

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPCalibrationPointsSet&Id=<integer>&X1=<integer>&Y1=<integer>&Lat1=<double>&Lon1=<double>&X2=<integer>&Y2=<integer>&Lat2=<double>&Lon2=<double>&Width=<integer>&Height=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPCalibrationPointsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOMAPCalibrationPointsGet**

**Description**

Returns Calibration info of the map

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPCalibrationPointsGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPCalibrationPointsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X1" : <integer>, "Y1" : <integer>, "Lat1" : <double>, "Lon1" : <double>, "X2" : <integer>, "Y2" : <integer>, "Lat2" : <double>, "Lon2" : <double>, "Width" : <integer>, "Height" : <integer>, "Calibrated" : <integer> } } }
```

- **GEOMAPTranslationLL2Pxls**

**Description**

Translates Lat/Lon to pixel coordinates in a specific map

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPTranslationLL2Pxls&Id=<integer>&Lat=<double>&Lon=<double>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPTranslationLL2Pxls": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer> } } }
```

- **GEOMAPTranslationPxls2LL**

**Description**

Translates pixel coordinates to Lat/Lon in a specific map

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPTranslationPxls2LL&Id=<integer>&X=<integer>&Y=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPTranslationPxls2LL": { "Return Code" : "<code>", "Return String" : "<string>", { "Lat" : <double>, "Lon" : <double> } } }
```

- **GEOMAPCalibrationDataGet**

**Description**

Returns Calibration info of a specific map

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPCalibrationDataGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPCalibrationDataGet": { "Return Code" : "<code>", "Return String" : "<string>", { "StartX" : <double>, "StartY" : <double>, "Scale" : <float>, "Rotation" : <float>, "Calibrated" : <integer>, "UTMZone" : <string> } } }
```

- **GEOMAPCalibrationDataLLGet**

**Description**

Returns Calibration info of a specific map

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOMAPCalibrationDataLLGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GEOMAPCalibrationDataLLGet": { "Return Code" : "<code>", "Return String" : "<string>", { "StartLat" : <double>, "StartLon" : <double>, "ScaleLat" : <float>, "ScaleLon" : <float>, "ScaleMetric" : <float>, "Calibrated" : <integer> } } }
```

- **GEOHealthGet**

**Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "GEOHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **GEOBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOBITExecute[&DeviceID=<devId>]
```

**Response**

```
{ "GEOBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOBITAbort[&DeviceID=<devId>]

**Response**

```
{ "GEOBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GEOBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOBITResult[&DeviceID=<devId>]

**Response**

```
{ "GEOBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **GEOLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "GEOLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Reference_Ellipsoid" : <integer>, "Latitude" : <double>, "Longitude" : <double>, "Altitude" : <float>, "UTM_X" : <float>, "UTM_Y" : <float>, "UTM_Height" : <float>, "UTM_Zone" : <string>, "Magnetic_Deviation" : <float>, "Compass_Error" : <float>, "Delta_Azimuth" : <float>, "Orientation" : <float>, "Longitudinal_Inclination" : <float>, "Transversal_Inclination" : <float> } } }
```

- **GEOLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "GEOLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **GEODeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEODeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "GEODeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GEODeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEODeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "GEODeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GEOWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GEOWebSettingsSet&Settings=<string>[&DeviceID=<devId>]

**Response**

```
{ "GEOWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **GEOWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GEOWebSettingsGet[&DeviceID=<devId>]`

**Response**

```
{ "GEOWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **LEVELInclinationSet**

**Description**

Sets the absolute inclination values of the Sensor installation to complete calibration of all georeferenced operations.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELInclinationSet&Longitudinal_inclination=<float>&Transverse_inclination=<float>[&DeviceID=<devId>]`

**Response**

```
{ "LEVELInclinationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LEVELInclinationGet**

**Description**

Requests the absolute inclination values currently used to complete calibration of all georeferenced operations.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELInclinationGet[&DeviceID=<devId>]`

**Response**

```
{ "LEVELInclinationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Longitudinal_inclination" : <float>, "Transverse_inclination" : <float> } } }
```

- **LEVELInclinometersGet**

**Description**

Requests the inclination readings of the Inclinometers Set sensor.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELInclinometersGet[&DeviceID=<devId>]`

**Response**

```
{ "LEVELInclinometersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Longitudinal_inclination" : <float>, "Transverse_inclination" : <float> } } }
```

- **LEVELInclinometersDataApply**

**Description**

Validates the two axis inclination values provided by the Inclinometer Set to be used as complementary calibration data for all georeferenced operations.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELInclinometersDataApply[&DeviceID=<devId>]`

**Response**

```
{ "LEVELInclinometersDataApply": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LEVELHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "LEVELHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **LEVELBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELBITExecute[&DeviceID=<devId>]`

**Response**

```
{ "LEVELBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LEVELBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LEVELBITAbort[&DeviceID=<devId>]`

**Response**

```
{ "LEVELBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LEVELBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LEVELBITResult[&DeviceID=<devId>]

**Response**

```
{ "LEVELBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **LEVELLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LEVELLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "LEVELLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string> } } }
```

- **LEVELLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LEVELLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "LEVELLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **LEVELDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LEVELDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "LEVELDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **LEVELDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LEVELDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "LEVELDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **VIDEOStart**

**Description**

Starts unicast video streaming to given port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOStart&Port=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStop**

**Description**

Stops video streaming to given port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOStop[&DeviceID=<devId>]

**Response**

```
{ "VIDEOStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOREset**

**Description**

Resets video hardware

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOREset[&DeviceID=<devId>]

**Response**

```
{ "VIDEOREset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOREstart**

**Description**

Restarts video driver

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORestart[&DeviceID=<devId>]`

**Response**

```
{ "VIDEORestart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEORestartIfRequired**

**Description**

Restarts video driver if required due to dynamic parameter changes.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORestartIfRequired[&DeviceID=<devId>]`

**Response**

```
{ "VIDEORestartIfRequired": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStreamEnabledSet**

**Description**

Enables/Disables video stream

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStreamEnabledSet&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStreamEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStreamEnabledGet**

**Description**

Returns video streaming state.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStreamEnabledGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStreamEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **VIDEOAnalyticsAvailableGet**

**Description**

Returns whether video analytics are available or not

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsAvailableGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAnalyticsAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **VIDEOAnalyticsEnableSet**

**Description**

Enables/Disables video analytics

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsEnableSet&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAnalyticsEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAnalyticsEnableGet**

**Description**

Returns whether video analytics are enabled or not

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsEnableGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAnalyticsEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **VIDEOImageOrientationSet**

**Description**

Changes video image orientation

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOImageOrientationSet&Orientation=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOImageOrientationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOImageOrientationGet**

**Description**

Returns current video image orientation value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOImageOrientationGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOImageOrientationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Orientation" : <integer> } } }
```

- **VIDEOSmartVideoEnableSet**

**Description**

Enables or disables smart video

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSmartVideoEnableSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSmartVideoEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSmartVideoEnableGet**

**Description**

Returns smart video enabled/disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSmartVideoEnableGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSmartVideoEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **VIDEOResolutionListGet**

**Description**

Requests the resolution list in json format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOResolutionListGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOResolutionListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ResolutionList" : <string> } } }
```

- **VIDEOResolutionListByCodecGet**

**Description**

Requests the resolution list by codec in json format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOResolutionListByCodecGet&Codec=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOResolutionListByCodecGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ResolutionList" : <string> } } }
```

- **VIDEOInputSelect**

**Description**

Selects video input

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOInputSelect&Input=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOInputSelect": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOChannelToggle**

**Description**

Toggles video input

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOChannelToggle[&DeviceID=<devId>]

**Response**

```
{ "VIDEOChannelToggle": { "Return Code" : "<code>", "Return String" : "<string>", { "Input" : <integer> } } }
```

- **VIDEOChannelConfigGet**

**Description**

This command returns a summary of the device's configuration related to channels which is made up of the number of channels and for each channel its id, associated camera type and id.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOChannelConfigGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOChannelConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Config" : <string> } } }
```

- **VIDEOInputSelectedGet**

**Description**

Requests video input selected

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOInputSelectedGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOInputSelectedGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Input" : <integer> } } }
```

- **VIDEOBitRateSet**

**Description**

Sets the bit rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOBitRateSet&Bitrate=<longint>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOBitRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOBitRateGet**

**Description**

Requests the value of the current bit rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOBitRateGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOBitRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Bitrate" : <longint> } } }
```

- **VIDEOFormatGet**

**Description**

Requests video format values

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOFormatGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Codec_format" : <integer>, "Multiplex_format" : <integer>, "Width" : <integer>, "Height" : <integer> } } }
```

- **VIDEOIFrameIntervalSet**

**Description**

Sets the I-Frame Interval

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIFrameIntervalSet&Interval=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIFrameIntervalSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIFrameIntervalGet**

**Description**

Requests the value of the current I-frame interval

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIFrameIntervalGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIFrameIntervalGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Interval" : <integer> } } }
```

- **VIDEOFrameRateSet**

**Description**

Sets the Frame Rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOFrameRateSet&Rate=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOFrameRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOFrameRateGet**

**Description**

Requests the value of the current Frame Rate

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOFrameRateGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOFrameRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rate" : <float> } } }
```

- **VIDEOCodecTypeSet**

**Description**

Sets the codec type for the video stream

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOCodecTypeSet&Codec=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOCodecTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOCodecTypeGet**

**Description**

Requests the value of the current Codec Type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOCodecTypeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOCodecTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Codec" : <integer> } } }
```

- **VIDEORateControlTypeSet**

**Description**

Sets the Rate Control Type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORateControlTypeSet&RateControl=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEORateControlTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEORateControlTypeGet**

**Description**

Requests the value of the current Rate Control Type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORateControlTypeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEORateControlTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RateControl" : <integer> } } }
```

- **VIDEOImageSizePresetSet**

**Description**

Sets the video resolution preset, image size

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOImageSizePresetSet&Size=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOImageSizePresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOImageSizePresetGet**

**Description**

Requests the value of the current resolution preset, image size

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOImageSizePresetGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOImageSizePresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Size" : <integer> } } }
```

- **VIDEORTPPortSet**

**Description**

Sets the RTP port

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORTPPortSet&Port=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEORTPPortSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEORTPPortGet**

**Description**

Requests the value of the current RTP Port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEORTPPortGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEORTPPortGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Port" : <integer> } } }
```

- **VIDEORTPNameSet**

**Description**

Sets the RTP name for URL

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEORTPNameSet&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEORTPNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEORTPNameGet**

**Description**

Requests the value of the current RTP Name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEORTPNameGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEORTPNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **VIDEOForceIFrame**

**Description**

Forces the video encoder to send an IFrame

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOForceIFrame[&DeviceID=<devId>]

**Response**

```
{ "VIDEOForceIFrame": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOMulticastConfigurationSet**

**Description**

Sets the configuration parameters for multicast mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOMulticastConfigurationSet&Enabled=<integer>&TTL=<integer>&Port=<longint>&Address=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOMulticastConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOMulticastConfigurationGet**

**Description**

Returns the configuration parameters for multicast mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOMulticastConfigurationGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOMulticastConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "TTL" : <integer>, "Port" : <longint>, "Address" : <string> } } }
```

- **VIDEOQualitySet**

**Description**

Sets the video encoding quality

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOQualitySet&Quality=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOQualitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOQualityGet**

**Description**

Returns current video encoding quality

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOQualityGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOQualityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Quality" : <integer> } } }
```

- **VIDEOSaveFramesToDiskSet**

**Description**

Enables/Disables continuous snapshots creation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaveFramesToDiskSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaveFramesToDiskSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaveFramesToDiskGet**

**Description**

Returns current status of continuous snapshots creation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaveFramesToDiskGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaveFramesToDiskGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **VIDEOSnapshotURLGet**

**Description**

Returns URL to request video snapshot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotURLGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotURLGet": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string> } } }
```

- **VIDEOSourceFormatGet**

**Description**

Returns the source video format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSourceFormatGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSourceFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **VIDEOSnapshotCodecSet**

**Description**

Sets the codec format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotCodecSet&Codec=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotCodecSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSnapshotCodecGet**

**Description**

Returns the codec format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotCodecGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotCodecGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Codec" : <integer> } } }
```

- **VIDEOSnapshotQualitySet**

**Description**

Sets the quality

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotQualitySet&Quality=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotQualitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSnapshotQualityGet**

**Description**

Returns the quality

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotQualityGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotQualityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Quality" : <integer> } } }
```

- **VIDEOSnapshotStore**

**Description**

Stores a snapshot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotStore[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotStore": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSnapshotContinuousEnableSet**

**Description**

Sets the continuous status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotContinuousEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotContinuousEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSnapshotContinuousEnableGet**

**Description**

Returns the countinuous status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSnapshotContinuousEnableGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotContinuousEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **VIDEOHTTPPortSet**

**Description**

Sets the HTTP port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOHTTPPortSet&Port=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOHTTPPortSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOHTTPPortGet**

**Description**

Requests the value of the current HTTP Port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOHTTPPortGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOHTTPPortGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Port" : <integer> } } }
```

- **VIDEOHTTPEnabledSet**

**Description**

Enables/Disables RTP/RTSP over HTTP

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOHTTPEnabledSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOHTTPEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOHTTPEnabledGet**

**Description**

Returns RTP/RTSP over HTTP state.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOHTTPEnabledGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOHTTPEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **VIDEOMulticastModeSet**

**Description**

Sets the Multicast Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOMulticastModeSet&MulticastMode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOMulticastModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOMulticastModeGet**

**Description**

Requests the value of the current Rate Multicas Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOMulticastModeGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOMulticastModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MulticastMode" : <integer> } } }
```

- **VIDEOQualityTimeoutSet**

**Description**

Sets the Quality Timeout

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOQualityTimeoutSet&QTimeout=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOQualityTimeoutSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOQualityTimeoutGet**

**Description**

Returns the value of the current Quality Timeout

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOQualityTimeoutGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOQualityTimeoutGet": { "Return Code" : "<code>", "Return String" : "<string>", { "QTimeout" : <integer> } } }
```

- **VIDEOSourceFormatSet**

**Description**

Sets video source format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSourceFormatSet&Format=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSourceFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEnableMulticastStreaming**

**Description**

enables/disables the video multicast streaming

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEnableMulticastStreaming&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEnableMulticastStreaming": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOImageSizePresetConfigGet**

**Description**

Requests width, height and name of the resolution preset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOImageSizePresetConfigGet&Preset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOImageSizePresetConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Width" : <integer>, "Height" : <integer>, "Name" : <string> } } }
```

- **VIDEONAPSHOTOnDemandURLGet**

**Description**

Returns URL to request a video snapshot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEONAPSHOTOnDemandURLGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSnapshotOnDemandURLGet": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string> } }
```

- **VIDEOBitrateRangeGet**

**Description**

Returns Bitrate limits

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOBitrateRangeGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOBitrateRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Min" : <integer>, "Max" : <integer> } } }
```

- **VIDEOQualityRangeGet**

**Description**

Returns Quality limits

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOQualityRangeGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOQualityRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Min" : <integer>, "Max" : <integer> } } }
```

- **VIDEORTSPAuthenticationEnabledSet**

**Description**

Enables/Disables RTSP authentication

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORTSPAuthenticationEnabledSet&RTSPAuthEnabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEORTSPAuthenticationEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEORTSPAuthenticationEnabledGet**

**Description**

Returns if RTSP authentication is enabled/Disabled

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORTSPAuthenticationEnabledGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEORTSPAuthenticationEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RTSPAuthEnabled" : <integer> } } }
```

- **VIDEOSmartVideoBitRateConfigurationSet**

**Description**

Sets the smart video bit rate configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSmartVideoBitRateConfigurationSet&BitRate=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOSmartVideoBitRateConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSmartVideoBitRateConfigurationGet**

**Description**

Requests the value of the smart video bit rate configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSmartVideoBitRateConfigurationGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOSmartVideoBitRateConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "BitRate" : <longint> } } }
```

- **VIDEOSmartVideoFrameRateConfigurationSet**

**Description**

Sets the the smart vide frame rate configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSmartVideoFrameRateConfigurationSet&FrameRate=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOSmartVideoFrameRateConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSmartVideoFrameRateConfigurationGet**

**Description**

Requests the value of the smart video frame rate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSmartVideoFrameRateConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSmartVideoFrameRateConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FrameRate" : <float> } } }
```

- **VIDEOContrastSet**

**Description**

Sets contrast of video input

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOContrastSet&Contrast=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOContrastSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOContrastGet**

**Description**

Requests the contrast value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOContrastGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOContrastGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Contrast" : <integer> } } }
```

- **VIDEOBrightnessSet**

**Description**

Sets brightness of video input

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOBrightnessSet&Brightness=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOBrightnessSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOBrightnessGet**

**Description**

Requests the brightness value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOBrightnessGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOBrightnessGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Brightness" : <integer> } } }
```

- **VIDEoSaturationSet**

**Description**

Sets color saturation on video input

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEoSaturationSet&Saturation=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEoSaturationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEoSaturationGet**

**Description**

Requests the color saturation value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEoSaturationGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEoSaturationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Saturation" : <integer> } } }
```

- **VIDEOIMDAreaSet**

**Description**

Sets the IMD area parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaSet&Id=<integer>&Points=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAreaSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAreaGet**

**Description**

Gets the IMD area parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAreaGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Points" : <integer> } } }
```

- **VIDEOIMDAreaPointSet**

**Description**

Sets the IMD area point parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaPointSet&Id=<integer>&Point=<integer>&X=<float>&Y=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAreaPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAreaPointGet**

**Description**

Gets the IMD area point parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaPointGet&Id=<integer>&Point=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAreaPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <float>, "Y" : <float> } } }
```

- **VIDEOIMDSensitivitySet**

**Description**

Sets the IMD sensitivity value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDSensitivitySet&Zone=<integer>&Sensitivity=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDSensitivitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDSensitivityGet**

**Description**

Returns the IMD sensitivity value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDSensitivityGet&Zone=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDSensitivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensitivity" : <float> } } }
```

- **VIDEOIMDSizeSet**

**Description**

Sets the IMD size value for target detection.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDSizeSet&Zone=<integer>&TargetType=<integer>&MinX=<float>&MaxX=<float>&MinY=<float>&MaxY=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDSizeGet**

**Description**

Returns the IMD size value for target detection.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDSizeGet&Zone=<integer>&TargetType=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinX" : <float>, "MaxX" : <float>, "MinY" : <float>, "MaxY" : <float> } } }
```

- **VIDEOIMDModeSet**

**Description**

Sets the IMD mode (Off, Trip, VMD..).

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDModeGet**

**Description**

Returns current IMD mode value.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VIDEOIMDTamperEnableSet**

**Description**

Sets the IMD tamper feature.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDTamperEnableSet&Tamper=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDTamperEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDTamperEnableGet**

**Description**

Returns current status of IMD tamper

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDTamperEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDTamperEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Tamper" : <integer> } } }
```

- **VIDEOIMDAreaActiveSet**

**Description**

Sets specified area active/not active

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaActiveSet&Zone=<integer>&Active=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDAreaActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAreaActiveGet**

**Description**

Gets if specified area is active or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaActiveGet&Zone=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDAreaActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOIMDAreaAdd**

**Description**

Creates a new IMD Area and returns the Id

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaAdd[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIMDAreaAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Zone" : <integer> } } }
```

- **VIDEOIMDAreaPointAdd**

**Description**

Creates a new point in an existing IMD Area and returns the Point Id

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaPointAdd&Zone=<integer>&X=<float>&Y=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAreaPointAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Point" : <integer> } } }
```

- **VIDEOIMDAreaRemove**

**Description**

Removes a specific IMD Area

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaRemove&Zone=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAreaRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZAreaSet**

**Description**

Sets the TZ area parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaSet&Id=<integer>&Points=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTZAreaSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZAreaGet**

**Description**

Gets the TZ area parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTZAreaGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Points" : <integer> } } }
```

- **VIDEOTZAreaPointSet**

**Description**

Sets the TZ area point parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaPointSet&Id=<integer>&Point=<integer>&X=<float>&Y=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTZAreaPointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZAreaPointGet**

**Description**

Gets the TZ area point parameters.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaPointGet&Id=<integer>&Point=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTZAreaPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <float>, "Y" : <float> } } }
```

- **VIDEOTZSensitivitySet**

**Description**

Sets the TZ sensitivity value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZSensitivitySet&Zone=<integer>&Sensitivity=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTZSensitivitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZSensitivityGet**

**Description**

Returns the TZ sensitivity value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZSensitivityGet&Zone=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTZSensitivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensitivity" : <float> } } }
```

- **VIDEOTZSizeSet**

**Description**

Sets the TZ size value for target detection.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZSizeSet&Zone=<integer>&TargetType=<integer>&MinX=<float>&MaxX=<float>&MinY=<float>&MaxY=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZSizeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZSizeGet**

**Description**

Returns the TZ size value for target detection.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZSizeGet&Zone=<integer>&TargetType=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZSizeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinX" : <float>, "MaxX" : <float>, "MinY" : <float>, "MaxY" : <float> } } }
```

- **VIDEOTZModeSet**

**Description**

Sets the TZ mode (Off, Trip, VMD..).

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZModeGet**

**Description**

Returns current TZ mode value.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VIDEOTZAreaActiveSet**

**Description**

Sets specified area active/not active

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaActiveSet&Zone=<integer>&Active=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZAreaActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZAreaActiveGet**

**Description**

Gets if specified area is active or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaActiveGet&Zone=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZAreaActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOTZAreaAdd**

**Description**

Creates a new TZ Area and returns the Id

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaAdd[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOTZAreaAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Zone" : <integer> } } }
```

- **VIDEOTZAreaPointAdd**

**Description**

Creates a new point in an existing TZ Area and returns the Point Id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAreaPointAdd&Zone=<integer>&X=<float>&Y=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAreaPointAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Point" : <integer> } } }
```

- **VIDEOTZAreaRemove**

**Description**

Removes a specific TZ Area

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAreaRemove&Zone=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAreaRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAreasGet**

**Description**

Returns a list of existing IMD zones

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAreasGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAreasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zones" : <string> } } }
```

- **VIDEOTZAreasGet**

**Description**

Returns a list of existing TZ zones

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAreasGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAreasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zones" : <string> } } }
```

- **VIDEOIMDAvailableGet**

**Description**

Returns whether video Intelligent Motion Detection is available or not

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAvailableGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **VIDEOTZAvailableGet**

**Description**

Returns whether video Trip Zones are available or not

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAvailableGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **VIDEOIMDAreaPointsSet**

**Description**

Sets the position of an IMD Area

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAreaPointsSet&Zone=<integer>&Points=<integer>&Coordinates=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAreaPointsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAreaPointsGet**

**Description**

Returns the position of an IMD Area

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAreaPointsGet&Zone=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAreaPointsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Points" : <integer>, "Coordinates" : <string> } } }
```

- **VIDEOIMDAreaWithPointsAdd**

**Description**

Adds a new IMD Area including the list of points. Returns the new area index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAreaWithPointsAdd&Points=<integer>&Coordinates=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAreaWithPointsAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Zone" : <integer> } } }
```

- **VIDEOIMDSizeToleranceSet**

**Description**

Sets the IMD size tolerance for human or vehicle detection

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDSizeToleranceSet&Zone=<integer>&Type=<integer>&Tolerance=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDSizeToleranceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDSizeToleranceGet**

**Description**

Returns the IMD size tolerance for human or vehicle detection

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDSizeToleranceGet&Zone=<integer>&Type=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDSizeToleranceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Tolerance" : <float> } } }
```

- **VIDEOIMDBoxDisplaySet**

**Description**

Sets the visibility value for IMD detection boxes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDBoxDisplaySet&Zone=<integer>&Visible=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDBoxDisplaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDBoxDisplayGet**

**Description**

Returns the visibility value for IMD detection boxes

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDBoxDisplayGet&Zone=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDBoxDisplayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Visible" : <integer> } } }
```

- **VIDEOIMDAAlarmDwellSet**

**Description**

Sets the IMD Alarm Dwell value.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAAlarmDwellSet&Zone=<integer>&AlarmDwell=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAAlarmDwellSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAAlarmDwellGet**

**Description**

Returns the IMD Alarm Dwell value.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOIMDAAlarmDwellGet&Zone=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOIMDAAlarmDwellGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AlarmDwell" : <integer> } } }
```

- **VIDEOIMDAAlarmDampeningSet**

**Description**

Sets the IMD Alarm Dampening value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAlarmDampeningSet&Zone=<integer>&AlarmDampening=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAlarmDampeningSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDAlarmDampeningGet**

**Description**

Returns the IMD Alarm Dampening value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAlarmDampeningGet&Zone=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDAlarmDampeningGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AlarmDampening" : <integer> } } }
```

- **VIDEOIMDTriggerOnAlarmStateSet**

**Description**

Sets the IMD Trigger On Alarm State value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDTriggerOnAlarmStateSet&Zone=<integer>&TriggerOnAlarmState=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDTriggerOnAlarmStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDTriggerOnAlarmStateGet**

**Description**

Returns the IMD Trigger On Alarm State value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDTriggerOnAlarmStateGet&Zone=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDTriggerOnAlarmStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TriggerOnAlarmState" : <integer> } } }
```

- **VIDEOIMDFramesSet**

**Description**

Sets the IMD Frames value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDFramesSet&Zone=<integer>&Frames=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDFramesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIMDFramesGet**

**Description**

Returns the IMD Frames value.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDFramesGet&Zone=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIMDFramesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Frames" : <integer> } } }
```

- **VIDEOPresenceConfigurationSet**

**Description**

Sets the general configuration parameters for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceConfigurationSet&StartupRecallTimeout=<integer>&RecallTimeout=<integer>&TimeOff=<integer>&Outputs=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOPresenceConfigurationGet**

**Description**

Returns the general configuration parameters for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceConfigurationGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "StartupRecallTimeout" : <integer>, "RecallTimeout" : <integer>, "TimeOff" : <integer>, "Outputs" : <integer> } } }
```

- **VIDEOPresenceQualityConfigurationSet**

**Description**

Sets the quality configuration settings for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceQualityConfigurationSet&Threshold=<integer>&QualityTimeout=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceQualityConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOPresenceQualityConfigurationGet**

**Description**

Returns the quality configuration settings for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceQualityConfigurationGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceQualityConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <integer>, "QualityTimeout" : <integer> } } }
```

- **VIDEOPresenceReflectionSuppressionSet**

**Description**

Sets the reflection suppression settings for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceReflectionSuppressionSet&Activate=<integer>&ReflectionTimeout=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceReflectionSuppressionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOPresenceReflectionSuppressionGet**

**Description**

Returns the reflection suppression settings for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceReflectionSuppressionGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceReflectionSuppressionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Activate" : <integer>, "ReflectionTimeout" : <integer> } } }
```

- **VIDEOPresenceZoneConfigurationSet**

**Description**

Sets the specific zone settings for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceZoneConfigurationSet&ZoneId=<integer>&ZoneType=<integer>&Direction=<integer>&DelayTime=<float>&ExtendTime=<float>&FailSafe=<integer>&InverseDirectionTime=<integer>&InverseDirectionSensitivity=<integer>&TreeShadowSuppression=<integer>&IgnoreSmallObjects=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceZoneConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOPresenceZoneConfigurationGet**

**Description**

Returns the zone settings for Presence Detection

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOPresenceZoneConfigurationGet&ZoneId=<integer>&Direction=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOPresenceZoneConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ZoneType" : <integer>, "DelayTime" : <float>, "ExtendTime" : <float>, "FailSafe" : <integer>, "InverseDirectionTime" : <integer>, "InverseDirectionSensitivity" : <integer>, "TreeShadowSuppression" : <integer>, "IgnoreSmallObjects" : <integer> } } }
```

- **VIDEOPresenceZoneCameraMovementSuppressionSet**

**Description**

Sets the specific zone camera movement suppression settings for Presence Detection

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOPresenceZoneCameraMovementSuppressionSet&ZoneId=<integer>&Mode=<integer>&Level=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOPresenceZoneCameraMovementSuppressionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOPresenceZoneCameraMovementSuppressionGet**

**Description**

Returns the zone camera movement suppression settings for Presence Detection

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOPresenceZoneCameraMovementSuppressionGet&ZoneId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOPresenceZoneCameraMovementSuppressionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer>, "Level" : <integer> } } }
```

- **VIDEOPresenceZoneOccupancySet**

**Description**

Sets the occupancy threshold values for a specific presence detection zone

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOPresenceZoneOccupancySet&ZoneId=<integer>&MinThreshold=<integer>&MaxThreshold=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOPresenceZoneOccupancySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOPresenceZoneOccupancyGet**

**Description**

Returns the occupancy threshold values of a specific presence detection zone

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOPresenceZoneOccupancyGet&ZoneId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOPresenceZoneOccupancyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinThreshold" : <integer>, "MaxThreshold" : <integer> } } }
```

- **VIDEOTZAreaPointsSet**

**Description**

Sets the position of a Trip Zone

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAreaPointsSet&Zone=<integer>&Points=<integer>&Coordinates=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAreaPointsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTZAreaPointsGet**

**Description**

Returns the position of an Trip Zone

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAreaPointsGet&Zone=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAreaPointsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Points" : <integer>, "Coordinates" : <string> } } }
```

- **VIDEOTZAreaWithPointsAdd**

**Description**

Adds a new Trip Zone including the list of points. Returns the new zone index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTZAreaWithPointsAdd&Points=<integer>&Coordinates=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOTZAreaWithPointsAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Zone" : <integer> } } }
```

- **VIDEOIntrusionConfigurationSet**

**Description**

Sets Analytics Intrusion configuration basic parameters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionConfigurationSet&ShowDetection=<integer>&UseTimings=<integer>&UseDebugInfo=<integer>&ShowTracks=<integer>&EngineerMode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIntrusionConfigurationGet**

**Description**

Returns Analytics Intrusion configuration basic parameters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ShowDetection" : <integer>, "UseTimings" : <integer>, "UseDebugInfo" : <integer>, "ShowTracks" : <integer>, "EngineerMode" : <integer> } } }
```

- **VIDEOIntrusionAreaConfigurationSet**

**Description**

Sets Analytics Intrusion Area settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionAreaConfigurationSet&Index=<integer>&Sensitivity=<integer>&Humans=<integer>&Vehicles=<integer>&Objects=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionAreaConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIntrusionAreaConfigurationGet**

**Description**

Returns Analytics Intrusion Area settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionAreaConfigurationGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionAreaConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensitivity" : <integer>, "Humans" : <integer>, "Vehicles" : <integer>, "Objects" : <integer> } } }
```

- **VIDEOIntrusionWireConfigurationSet**

**Description**

Sets Analytics Intrusion Wire settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionWireConfigurationSet&Index=<integer>&Sensitivity=<integer>&Direction=<integer>&Humans=<integer>&Vehicles=<integer>&Objects=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionWireConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIntrusionWireConfigurationGet**

**Description**

Returns Analytics Intrusion Wire settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionWireConfigurationGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionWireConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensitivity" : <integer>, "Direction" : <integer>, "Humans" : <integer>, "Vehicles" : <integer>, "Objects" : <integer> } } }
```

- **VIDEOIntrusionDetectionOverlayEnableSet**

**Description**

Sets intrusion detection overlay status

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionDetectionOverlayEnableSet&Overlay=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionDetectionOverlayEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIntrusionDetectionOverlayEnableGet**

**Description**

Returns intrusion detection overlay status

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionDetectionOverlayEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionDetectionOverlayEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Overlay" : <integer> } } }
```

- **VIDEOIntrusionDetectionOverlayEnableToggle**

**Description**

Toggles intrusion detection overlay status (on/off)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionDetectionOverlayEnableToggle[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionDetectionOverlayEnableToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAnalyticsCalibrationModeSet**

**Description**

Sets the analytics calibration mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsCalibrationModeSet&Calibration=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAnalyticsCalibrationModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAnalyticsCalibrationModeGet**

**Description**

Gets the analytics calibration mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsCalibrationModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAnalyticsCalibrationModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Calibration" : <integer> } } }
```

- **VIDEOAnalyticsCalibrationAreaSet**

**Description**

Sets the analytics calibration areas

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsCalibrationAreaSet&AreaIndex=<integer>&XCoord=<float>&YCoord=<float>&Width=<float>&Height=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAnalyticsCalibrationAreaSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAnalyticsCalibrationAreaGet**

**Description**

Gets the analytics calibration areas

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsCalibrationAreaGet&AreaIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAnalyticsCalibrationAreaGet": { "Return Code" : "<code>", "Return String" : "<string>", { "XCoord" : <float>, "YCoord" : <float>, "Width" : <float>, "Height" : <float> } } }
```

- **VIDEOMaskingAreaPointsSet**

**Description**

Sets the position of a masking zone

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOMaskingAreaPointsSet&Zone=<integer>&Points=<integer>&Coordinates=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOMaskingAreaPointsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOMaskingAreaPointsGet**

**Description**

Returns the position of a masking zone

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOMaskingAreaPointsGet&Zone=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOMaskingAreaPointsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Points" : <integer>, "Coordinates" : <string> } } }
```

- **VIDEOMaskingAreaWithPointsAdd**

**Description**

Adds a new masking zone including the list of points. Returns the new zone index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOMaskingAreaWithPointsAdd&Points=<integer>&Coordinates=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOMaskingAreaWithPointsAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Zone" : <integer> } } }
```

- **VIDEOMaskingAreaRemove**

**Description**

Removes a specific masking zone

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOMaskingAreaRemove&Zone=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOMaskingAreaRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOMaskingAreasGet**

**Description**

Returns a list of existing masking zones

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOMaskingAreasGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOMaskingAreasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zones" : <string> } } }
```

- **VIDEOIntrusionSensitivitySet**

**Description**

Sets Intrusion Sensitivity

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionSensitivitySet&Sensitivity=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionSensitivitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIntrusionSensitivityGet**

**Description**

Gets Intrusion Sensitivity

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionSensitivityGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOIntrusionSensitivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensitivity" : <float> } } }
```

- **VIDEOAutoMaskingEnableSet**

**Description**

Enables or disables auto masking

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAutoMaskingEnableSet&AutoMasking=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAutoMaskingEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAutoMaskingEnableGet**

**Description**

Gets if auto masking is enabled or not

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAutoMaskingEnableGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAutoMaskingEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoMasking" : <integer> } } }
```

- **VIDEOIntrusionDetectionExtendTimeSet**

**Description**

Sets intrusion detection extend time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionDetectionExtendTimeSet&ExtendTime=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIntrusionDetectionExtendTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOIntrusionDetectionExtendTimeGet**

**Description**

Gets intrusion detection extend time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIntrusionDetectionExtendTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOIntrusionDetectionExtendTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ExtendTime" : <integer> } } }
```

- **VIDEOAutoCalibrationInfoGet**

**Description**

Gets auto calibration process info and percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAutoCalibrationInfoGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAutoCalibrationInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Percent" : <float>, "Info" : "<string>" } } }
```

- **VIDEOTamperThresholdSet**

**Description**

Sets tamper alarm threshold as percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTamperThresholdSet&TamperThreshold=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTamperThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOTamperThresholdGet**

**Description**

Gets tamper alarm threshold as percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTamperThresholdGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOTamperThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TamperThreshold" : <float> } } }
```

- **VIDEOOnlyShowTriggeredTracksSet**

**Description**

Show only triggered tracks

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOOnlyShowTriggeredTracksSet&ShowTriggered=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOOnlyShowTriggeredTracksSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOOnlyShowTriggeredTracksGet**

**Description**

Gets Show only triggered tracks

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOOnlyShowTriggeredTracksGet[&DeviceID=<devId>]`

**Response**

`{ "VIDEOOnlyShowTriggeredTracksGet": { "Return Code" : "<code>", "Return String" : "<string>", "ShowTriggered" : <integer> } }`

- **VIDEOIMDAreaDependencyConfigurationSet**

**Description**

Sets IMD zone dependency configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaDependencyConfigurationSet&ZoneId=<integer>&Enabled=<integer>&DependencyZoneId=<integer>&Interval=<integer>[&DeviceID=<devId>]`

**Response**

`{ "VIDEOIMDAreaDependencyConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **VIDEOIMDAreaDependencyConfigurationGet**

**Description**

Gets IMD zone dependency configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOIMDAreaDependencyConfigurationGet&ZoneId=<integer>[&DeviceID=<devId>]`

**Response**

`{ "VIDEOIMDAreaDependencyConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", "Enabled" : <integer>, "DependencyZoneId" : <integer>, "Interval" : <integer> } }`

- **VIDEOTZAreaDependencyConfigurationSet**

**Description**

Sets TZ zone dependency configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaDependencyConfigurationSet&ZoneId=<integer>&Enabled=<integer>&DependencyZoneId=<integer>&Interval=<integer>[&DeviceID=<devId>]`

**Response**

`{ "VIDEOTZAreaDependencyConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **VIDEOTZAreaDependencyConfigurationGet**

**Description**

Gets TZ zone dependency configuration

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOTZAreaDependencyConfigurationGet&ZoneId=<integer>[&DeviceID=<devId>]`

**Response**

`{ "VIDEOTZAreaDependencyConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", "Enabled" : <integer>, "DependencyZoneId" : <integer>, "Interval" : <integer> } }`

- **VIDEOAnalyticsOSDEnableSet**

**Description**

Enables/disables analytics OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsOSDEnableSet&OSDEnabled=<integer>[&DeviceID=<devId>]`

**Response**

`{ "VIDEOAnalyticsOSDEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **VIDEOAnalyticsOSDEnableGet**

**Description**

Returns if analytics OSD is enabled

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAnalyticsOSDEnableGet[&DeviceID=<devId>]`

**Response**

`{ "VIDEOAnalyticsOSDEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", "OSDEnabled" : <integer> } }`

- **VIDEOTriggerAlarm**

**Description**

Internal Use Only

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOTriggerAlarm&Id=<integer>&Alarm=<string>[&DeviceID=<devId>]

**Response**

{ "VIDEOTriggerAlarm": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VIDEOProfileActiveSet**

**Description**

Changes and applies the video profile

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOProfileActiveSet&Index=<integer>[&DeviceID=<devId>]

**Response**

{ "VIDEOProfileActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VIDEOProfileActiveGet**

**Description**

Returns current video profile. 0 means custom

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOProfileActiveGet[&DeviceID=<devId>]

**Response**

{ "VIDEOProfileActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }

- **VIDEOProfileNameGet**

**Description**

Returns the name of a video profile

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOProfileNameGet&Index=<integer>[&DeviceID=<devId>]

**Response**

{ "VIDEOProfileNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }

- **VIDEOMaskAllSet**

**Description**

Enables/disables video mask

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOMaskAllSet&Enabled=<integer>[&DeviceID=<devId>]

**Response**

{ "VIDEOMaskAllSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VIDEOMaskAllGet**

**Description**

Requests video mask status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOMaskAllGet[&DeviceID=<devId>]

**Response**

{ "VIDEOMaskAllGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }

- **VIDEOEEGradientGainSet**

**Description**

EE Gradient Gain.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEGradientGainSet&GradientGain=<float>[&DeviceID=<devId>]

**Response**

{ "VIDEOEEGradientGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VIDEOEEGradientGainGet**

**Description**

EE Gradient Gain.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEGradientGainGet[&DeviceID=<devId>]

**Response**

{ "VIDEOEEGradientGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GradientGain" : <float> } } }

- **VIDEOEEGradientOffsetSet**

**Description**

EE Gradient Offset.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEGradientOffsetSet&GradientOffset=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEGradientOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEEGradientOffsetGet**

**Description**

EE Gradient Offset.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEGradientOffsetGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEGradientOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "GradientOffset" : <float> } } }
```

- **VIDEOEEHaloReductionSet**

**Description**

Sets EE Halo Reduction (Off, on).

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEHaloReductionSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEHaloReductionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEEHaloReductionGet**

**Description**

Sets EE Halo Reduction (Off, on).

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEHaloReductionGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEHaloReductionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOEEHpfShiftSet**

**Description**

EE Hpf Shift.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEHpfShiftSet&HpfShift=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEHpfShiftSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEEHpfShiftGet**

**Description**

EE Hpf Shift.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEHpfShiftGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEHpfShiftGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HpfShift" : <float> } } }
```

- **VIDEOEEMethodSet**

**Description**

Sets EE Method (sum, absmax).

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEMethodSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEMethodSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEEMethodGet**

**Description**

Sets EE Method (sum, absmax).

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEMethodGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEMethodGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOEEPreLutThresholdSet**

**Description**

EE Pre Lut Threshold.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEEPreLutThresholdSet&PreLutThresh=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEEPreLutThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEEPreLutThresholdGet**

**Description**

EE Pre Lut Threshold.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEEPreLutThresholdGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEEPreLutThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PreLutThresh" : <float> } } }
```

- **VIDEOEESharpenerGainSet**

**Description**

EE Sharpener Gain.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEESharpenerGainSet&SharpenerGain=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEESharpenerGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEESharpenerGainGet**

**Description**

EE Sharpener Gain.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEESharpenerGainGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEESharpenerGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SharpenerGain" : <float> } } }
```

- **VIDEOEESharpenerOffsetSet**

**Description**

EE Sharpener Offset.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEESharpenerOffsetSet&SharpenerOffset=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEESharpenerOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEESharpenerOffsetGet**

**Description**

EE Sharpener Offset.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEESharpenerOffsetGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEESharpenerOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SharpenerOffset" : <float> } } }
```

- **VIDEOEESharpenerThresholdHighSet**

**Description**

EE Sharpener Threshold High.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOEESharpenerThresholdHighSet&SharpenerThresHigh=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOEESharpenerThresholdHighSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEESharpenerThresholdHighGet**

**Description**

EE Sharpener Threshold High.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEESharpenerThresholdHighGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEESharpenerThresholdHighGet": { "Return Code" : "<code>", "Return String" : "<string>", "SharpenerThreshHigh" : <float> } }
```

- **VIDEOEESharpenerThresholdLowSet**

**Description**

EE Sharpener Threshold Low.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEESharpenerThresholdLowSet&SharpenerThreshLow=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEESharpenerThresholdLowSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEESharpenerThresholdLowGet**

**Description**

EE Sharpener Threshold Low.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEESharpenerThresholdLowGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEESharpenerThresholdLowGet": { "Return Code" : "<code>", "Return String" : "<string>", "SharpenerThreshLow" : <float> } }
```

- **VIDEOEEImageFiltersSet**

**Description**

Sets EE (Off, on).

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEImageFiltersSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEImageFiltersSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOEEImageFiltersGet**

**Description**

Sets EE (Off, on).

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOEEImageFiltersGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOEEImageFiltersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOSaldreGBEStrengthSet**

**Description**

Set Saldre GBE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldreGBEStrengthSet&SalreGBEStrength=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldreGBEStrengthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldreGBEStrengthGet**

**Description**

Get Saldre GBE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldreGBEStrengthGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldreGBEStrengthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SalreGBEStrength" : <float> } } }
```

- **VIDEOSaldreGCEStrengthSet**

**Description**

Set Saldre GCE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrGCEStrengthSet&SaldreGCEStrength=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrGCEStrengthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldrGCEStrengthGet**

**Description**

Get Saldre GCE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrGCEStrengthGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrGCEStrengthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SaldreGCEStrength" : <float> } } }
```

- **VIDEOSaldrLBESTrengthSet**

**Description**

Set Saldre LBE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrLBESTrengthSet&SaldreLBESTrength=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrLBESTrengthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldrLBESTrengthGet**

**Description**

Get Saldre LBE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrLBESTrengthGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrLBESTrengthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SaldreLBESTrength" : <float> } } }
```

- **VIDEOSaldrLCESTrengthSet**

**Description**

Set Saldre LCE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrLCESTrengthSet&SaldreLCESTrength=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrLCESTrengthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldrLCESTrengthGet**

**Description**

Get Saldre LCE Strength.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrLCESTrengthGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrLCESTrengthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SaldreLCESTrength" : <float> } } }
```

- **VIDEOSaldrIpipeGainSet**

**Description**

Set Saldre Ipipe Gain.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrIpipeGainSet&SaldreIpipeGain=<float>[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrIpipeGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldrIpipeGainGet**

**Description**

Get Saldre Ipipe Gain.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOSaldrIpipeGainGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOSaldrepipeGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SaldrepipeGain" : <float> } }
```

- **VIDEOSaldreModeSet**

**Description**

Saldre Mode (global, local, off).

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldreModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldreModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldreModeGet**

**Description**

Get Saldre Mode (global, local, off).

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldreModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldreModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VIDEOSaldreNframesSet**

**Description**

Set Saldre Nframes.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldreNframesSet&SaldreNframes=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldreNframesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldreNframesGet**

**Description**

Get Saldre Nframes.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldreNframesGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldreNframesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SaldreNframes" : <float> } } }
```

- **VIDEOSaldrePresetSet**

**Description**

Saldre Preset (low, medium, high).

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldrePresetSet&Preset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldrePresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldrePresetGet**

**Description**

Get Saldre Preset (low, medium, high).

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldrePresetGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldrePresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **VIDEOSaldreSensorGainSet**

**Description**

Set Saldre Sensor Gain.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldreSensorGainSet&SaldreSensorGain=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOSaldreSensorGainSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOSaldreSensorGainGet**

**Description**

Get Saldre Sensor Gain.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOSaldrSensorGainGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOSaldrSensorGainGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SaldreSensorGain" : <float> } } }
```

- **VIDEOStabDisplayModeSet**

**Description**

VSTAB Display Mode (cropped, full).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabDisplayModeSet&Mode=<integer>[&DeviceID=D=<devId>]`

**Response**

```
{ "VIDEOStabDisplayModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStabDisplayModeGet**

**Description**

Get VSTAB Display Mode (cropped, full).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabDisplayModeGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabDisplayModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOStabIconsSet**

**Description**

VSTAB Icons (off, on).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabIconsSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabIconsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStabIconsGet**

**Description**

Get VSTAB Icons (off, on).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabIconsGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabIconsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOStabDisplayStateSet**

**Description**

VSTAB Display State (off, on).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabDisplayStateSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabDisplayStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStabDisplayStateGet**

**Description**

Get VSTAB Display State (off, on).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabDisplayStateGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabDisplayStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOStabSubWindowBoxSet**

**Description**

VSTAB Sub Window Box (off, on).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabSubWindowBoxSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabSubWindowBoxSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOStabSubWindowBoxGet**

**Description**

Get VSTAB Sub Window Box (off, on).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOStabSubWindowBoxGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOStabSubWindowBoxGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **VIDEOAudioEnabledSet**

**Description**

Enables/disables video audio

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioEnabledSet&AudioEnabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioEnabledGet**

**Description**

Requests if video audio is enabled/disabled

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioEnabledGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AudioEnabled" : <integer> } } }
```

- **VIDEOAudioBitRateSet**

**Description**

Sets the audio bit rate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioBitRateSet&Bitrate=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioBitRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioBitRateGet**

**Description**

Requests the value of the current audio bit rate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioBitRateGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioBitRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Bitrate" : <longint> } } }
```

- **VIDEOAudioCodecTypeSet**

**Description**

Sets the audio codec

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioCodecTypeSet&Codec=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioCodecTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioCodecTypeGet**

**Description**

Requests the value of the current audio codec

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioCodecTypeGet[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioCodecTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Codec" : <longint> } } }
```

- **VIDEOAudioSampleRateSet**

**Description**

Sets the audio sample rate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioSampleRateSet&Samplerate=<longint>[&DeviceID=<devId>]`

**Response**

```
{ "VIDEOAudioSampleRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioSampleRateGet**

**Description**

Requests the value of the current audio sample rate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioSampleRateGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioSampleRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Samplerate" : <longint> } } }
```

- **VIDEOAudioGainPercentageSet**

**Description**

Sets audio gain percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioGainPercentageSet&Gain=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioGainPercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioGainPercentageGet**

**Description**

Gets audio gain percentage

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioGainPercentageGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioGainPercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Gain" : <float> } } }
```

- **VIDEOAudioEncoderConfigurationSet**

**Description**

Sets the audio encoder configuration parameters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioEncoderConfigurationSet&Codec=<longint>&Bitrate=<longint>&Samplerate=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioEncoderConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioEncoderConfigurationGet**

**Description**

Returns the audio encoder configuration parameters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioEncoderConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioEncoderConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Codec" : <longint>, "Bitrate" : <longint>, "Samplerate" : <longint> } } }
```

- **VIDEOAudioMulticastConfigurationSet**

**Description**

Sets the audio configuration parameters for multicast mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioMulticastConfigurationSet&Enabled=<integer>&TTL=<integer>&Port=<longint>&Address=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioMulticastConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOAudioMulticastConfigurationGet**

**Description**

Returns the audio configuration parameters for multicast mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOAudioMulticastConfigurationGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOAudioMulticastConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "TTL" : <integer>, "Port" : <longint>, "Address" : <string> } } }
```

- **VIDEOHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOHealthGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **VIDEOBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOBITExecute[&DeviceID=<devId>]

**Response**

```
{ "VIDEOBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOBITAbort[&DeviceID=<devId>]

**Response**

```
{ "VIDEOBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOBITResult[&DeviceID=<devId>]

**Response**

```
{ "VIDEOBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **VIDEOLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEOLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Source_Type" : <integer>, "Source_Id" : <integer>, "Transmission_type" : <integer>, "Destination_net" : <string>, "Destination_port" : <integer>, "CODEC_Format" : <integer>, "Input" : <integer>, "Inputs" : <integer>, "Width" : <integer>, "Height" : <integer>, "MuxFormat" : <integer>, "Bitrate" : <longint>, "Deinterlace" : <integer>, "AnalyticsChangedTimestamp" : <string> } } }
```

- **VIDEOLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEOLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "VIDEOLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **VIDEODeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEODeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEODeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **VIDEODeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEODeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "VIDEODeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **VIDEOWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOWebSettingsSet&Settings=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **VIDEOWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOWebSettingsGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **VIDEORestoreFactoryDefault**

**Description**

Restores factory default settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEORestoreFactoryDefault[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEORestoreFactoryDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOExpertModeSet**

**Description**

Sets the configuration for the Expert Communications Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOExpertModeSet&OnOff=<integer>&Type=<integer>&ETX=<integer>&ERX=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOExpertModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDEOExpertModeGet**

**Description**

Requests the configuration for the Expert Communications Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOExpertModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOExpertModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Type" : <integer>, "ETX" : <integer>, "ERX" : <integer> } } }
```

- **VIDEOExpertDataWrite**

**Description**

In Expert Mode, transmits raw data and waits for the answer

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOExpertDataWrite&CountTx=<integer>&TimeoutRx=<integer>&DataTx=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOExpertDataWrite": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **VIDEOExpertDataRead**

**Description**

In Expert Mode, reads raw data from the device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDEOExpertDataRead&TimeoutRx=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDEOExpertDataRead": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **VIDEORawCommandSend**

**Description**

Sends a command to the VIDEO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEORawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEORawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : "<string>" } } }
```

- **VIDEORawCommandASCIISend**

**Description**

Sends a command to the VIDEO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VIDEORawCommandASCIISend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "VIDEORawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : "<string>" } } }
```

- **UAVIdle**

**Description**

Sends idle packet to maintain the communications link alive

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVIdle[&DeviceID=<devId>]

**Response**

```
{ "UAVIdle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVSetTime**

**Description**

Sets the mission or bingo time

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVSetTime&Idx=<byte>&Time=<longint>[&DeviceID=<devId>]

**Response**

```
{ "UAVSetTime": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVCommsOnOff**

**Description**

Enables/disables autopilot communications

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVCommsOnOff&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "UAVCommsOnOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVClearAlarms**

**Description**

Clears alarms reported by the SYSTEM packet.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVClearAlarms[&DeviceID=<devId>]

**Response**

```
{ "UAVClearAlarms": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVControl**

**Description**

5-surface control packet for direct action on surface servos

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVControl&dtc0=<float>&dtc1=<float>&dtc2=<float>&dtc3=<float>[&DeviceID=<devId>]

**Response**

```
{ "UAVControl": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVSituation**

**Description**

Requests aircraft information

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVSituation[&DeviceID=<devId>]

**Response**

```
{ "UAVSituation": { "Return Code" : "<code>", "Return String" : "<string>", { "latitude" : <double>, "longitude" : <double>, "altitude" : <float>, "Vt0" : <float>, "Vt1" : <float>, "Vt2" : <float>, "mode" : <byte> } } }
```

- **UAVWaypointSet**

**Description**

Set coordinates of flight plan waypoint

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVWaypointSet&n=<byte>&latitude=<double>&longitude=<double>&altitude=<float>&active=<byte>[&DeviceID=<devId>]

**Response**

```
{ "UAVWaypointSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVWaypointGet**

**Description**

Read waypoint information from autopilot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVWaypointGet&index=<byte>[&DeviceID=<devId>]

**Response**

```
{ "UAVWaypointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "n" : <byte>, "latitude" : <double>, "longitude" : <double>, "altitude" : <float>, "active" : <byte> } } }
```

- **UAVWaypointGoTo**

**Description**

Choose waypoint as current destination within flight plan

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVWaypointGoTo&n=<byte>[&DeviceID=<devId>]

**Response**

```
{ "UAVWaypointGoTo": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVWaypointWhereTo**

**Description**

Poll current destination waypoint from autopilot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVWaypointWhereTo[&DeviceID=<devId>]

**Response**

```
{ "UAVWaypointWhereTo": { "Return Code" : "<code>", "Return String" : "<string>", { "n" : <byte>, "latitude" : <double>, "longitude" : <double>, "altitude" : <float> } } }
```

- **UAVRunwaySet**

**Description**

Set coordinates of runway

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVRunwaySet&latitude=<double>&longitude=<double>&altitude=<float>&heading=<float>[&DeviceID=<devId>]

**Response**

```
{ "UAVRunwaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVRunwayGet**

**Description**

Read runway information from autopilot

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVRunwayGet[&DeviceID=<devId>]

**Response**

```
{ "UAVRunwayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "latitude" : <double>, "longitude" : <double>, "altitude" : <float>, "heading" : <float> } } }
```

- **UAVIASSet**

**Description**

Set target indicated airspeed. Only has effect in directed mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVIASSet&IAS=<double>[&DeviceID=<devId>]

**Response**

```
{ "UAVIASSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVAltitudeSet**

**Description**

Set target indicated altitude. Only has effect in directed mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVAltitudeSet&Altitude=<float>[&DeviceID=<devId>]

**Response**

```
{ "UAVAltitudeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVBearingSet**

**Description**

Set target indicated bearing. Only has effect in directed mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVBearingSet&Bearing=<float>[&DeviceID=<devId>]

**Response**

```
{ "UAVBearingSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVDirectionGet**

**Description**

Poll current indicated airspeed, altitude and bearing from autopilot. Only has effect in directed mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVDirectionGet[&DeviceID=<devId>]

**Response**

```
{ "UAVDirectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IAS" : <double>, "Altitude" : <float>, "Bearing" : <float> } } }
```

- **UAVModeSet**

**Description**

Set autopilot mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVModeSet&mode=<byte>[&DeviceID=<devId>]

**Response**

```
{ "UAVModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVModeGet**

**Description**

Requests autopilot mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVModeGet[&DeviceID=<devId>]

**Response**

```
{ "UAVModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "mode" : <byte> } } }
```

- **UAVLand**

**Description**

Generate landing flight plan according to the currently defined runway.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVLand[&DeviceID=<devId>]

**Response**

```
{ "UAVLand": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVClearFlightPlan**

**Description**

Clear flight plan, set all waypoints to inactive.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVClearFlightPlan[&DeviceID=<devId>]

**Response**

```
{ "UAVClearFlightPlan": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVTakeOff**

**Description**

Generate takeoff flight plan according to the currently defined runway, and set AUTO mode to start takeoff procedure.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=UAVTakeOff[&DeviceID=<devId>]

**Response**

```
{ "UAVTakeOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVGroundReferencedAimSet**

**Description**

Set ground-referenced pan and tilt angles to aim payload

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVGroundReferencedAimSet&n=<byte>&pan=<float>&tilt=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "UAVGroundReferencedAimSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVGroundReferencedAimGet**

**Description**

Request ground-referenced pan and tilt angles at which a given payload is aiming

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVGroundReferencedAimGet&index=<byte>[&DeviceID=<devId>]
```

**Response**

```
{ "UAVGroundReferencedAimGet": { "Return Code" : "<code>", "Return String" : "<string>", { "n" : <byte>, "pan" : <float>, "tilt" : <float> } } }
```

- **UAVGEOAimSet**

**Description**

Set geographical coordinates for aiming payload

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVGEOAimSet&n=<byte>&latitude=<double>&longitude=<double>&altitude=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "UAVGEOAimSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVGEOAimGet**

**Description**

Request geographical coordinates at which a given payload is aiming

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVGEOAimGet&index=<byte>[&DeviceID=<devId>]
```

**Response**

```
{ "UAVGEOAimGet": { "Return Code" : "<code>", "Return String" : "<string>", { "n" : <byte>, "latitude" : <double>, "longitude" : <double>, "altitude" : <float> } } }
```

- **UAVServoCalSet**

**Description**

Calibrate a servo PWM signal generator

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVServoCalSet&n=<byte>&min=<longint>&ctr=<longint>&max=<longint>&rng=<float>&inv=<byte>[&DeviceID=<devId>]
```

**Response**

```
{ "UAVServoCalSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVServoCalGet**

**Description**

Get servo PWM signal generator calibration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVServoCalGet&index=<byte>[&DeviceID=<devId>]
```

**Response**

```
{ "UAVServoCalGet": { "Return Code" : "<code>", "Return String" : "<string>", { "n" : <byte>, "min" : <longint>, "ctr" : <longint>, "max" : <longint>, "rng" : <float>, "inv" : <byte> } } }
```

- **UAVHealthGet**

**Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "UAVHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **UAVBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVBITExecute[&DeviceID=<devId>]`

**Response**

```
{ "UAVBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVBITAbort[&DeviceID=<devId>]`

**Response**

```
{ "UAVBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **UAVBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVBITResult[&DeviceID=<devId>]`

**Response**

```
{ "UAVBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **UAVLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVLastNMEAGet[&DeviceID=<devId>]`

**Response**

```
{ "UAVLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : "<string>" } } }
```

- **UAVLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVLongBITResult[&DeviceID=<devId>]`

**Response**

```
{ "UAVLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **UAVDeviceVersionGet**

**Description**

Requests the device version string

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVDeviceVersionGet[&DeviceID=<devId>]`

**Response**

```
{ "UAVDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **UAVDeviceInfoGet**

**Description**

Requests the device info string

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=UAVDeviceInfoGet[&DeviceID=<devId>]`

**Response**

```
{ "UAVDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **FOVEUSDigitalZoomSet**

**Description**

Changes the digital zoom factor of the selected video source

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSDigitalZoomSet&source=<integer>&percent=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSDigitalZoomSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSVideoWindowOffsetSet**

**Description**

Specifies the viewable window within the entire available raw input video

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSVideoWindowOffsetSet&source=<integer>&x_offset=<integer>&y_offset=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSVideoWindowOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSAnalogOutputSet**

**Description**

Selects which video source is presented to the analog output

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSAnalogOutputSet&source=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSAnalogOutputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSAnalogOutputGet**

**Description**

Returns which video source is presented to the analog output

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSAnalogOutputGet[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSAnalogOutputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "source" : <integer> } } }
```

- **FOVEUSFlatFieldCorrection**

**Description**

Informs the underlying DSPs that a manually driven flat field correction is imminent

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSFlatFieldCorrection&ffc=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSFlatFieldCorrection": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSHeatingStateSet**

**Description**

Enables/disables active heating

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSHeatingStateSet&state=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSHeatingStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSTemperatureGet**

**Description**

Requests temperature in degrees Celsius

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSTemperatureGet[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "temperatuve" : <integer> } } }
```

- **FOVEUSFocusPercentSet**

**Description**

Moves the NFOV camera's focus position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSFocusPercentSet&percent=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSFocusPercentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSFocusPercentGet**

**Description**

Requests focus motor position in percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=FOVEUSFocusPercentGet[&DeviceID=<devId>]`

**Response**

```
{ "FOVEUSFocusPercentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "percent" : <integer> } } }
```

- **FOVEUSMergeOffsetSet**

**Description**

Sets X and Y offset

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSMergeOffsetSet&XOffset=<integer>&YOffset=<integer>[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSMergeOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUHealthGet[&DeviceID=<devId>]

**Response**

```
{ "FOVEUHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **FOVEUSBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSBITExecute[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSBITAbort[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **FOVEUSBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSBITResult[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **FOVEUSLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "X_Offset" : <longint>, "Y_Offset" : <longint>, "Associated_IR_Id" : <integer>, "Wide_FOV" : <float>, "Narrow_FOV" : <float>, "Current_FOV" : <float>, "Temperature" : <float>, "Humidity" : <float> } } }
```

- **FOVEUSLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **FOVEUSDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **FOVEUSDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=FOVEUSDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "FOVEUSDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **LRFMeasurementValuesGet**

**Description**

Requests target values (first, second and last)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFMeasurementValuesGet[&DeviceID=<devId>]

**Response**

```
{ "LRFMeasurementValuesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "First" : <longint>, "Last" : <longint> } } }
```

- **LRFReset**

**Description**

Resets LRF

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFReset[&DeviceID=<devId>]

**Response**

```
{ "LRFReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LRFModeSet**

**Description**

Sets the LRF mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFModeSet&mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "LRFModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LRFMeasurementValueByIndexGet**

**Description**

Returns a specific target distance value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFMeasurementValueByIndexGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "LRFMeasurementValueByIndexGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <longint> } } }
```

- **LRFTotalNumberOfShotsGet**

**Description**

Returns the total number of shots done by the LRF unit

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFTotalNumberOfShotsGet[&DeviceID=<devId>]

**Response**

```
{ "LRFTotalNumberOfShotsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <longint> } } }
```

- **LRFGateRangeSet**

**Description**

Sets range gate values

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFGateRangeSet&Minimum=<longint>&Maximum=<longint>[&DeviceID=<devId>]

**Response**

```
{ "LRFGateRangeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LRFGateRangeGet**

**Description**

Requests range gate values

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFGateRangeGet[&DeviceID=<devId>]

**Response**

```
{ "LRFGateRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Minimum" : <longint>, "Maximum" : <longint> } } }
```

- **LRFRawCommandSend**

**Description**

Sends a command to the LRF

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "LRFRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **LRFRawCommandASCIISend**

**Description**

Sends a command to the LRF

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFRawCommandASCIISend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "LRFRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **LRFHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFHealthGet[&DeviceID=<devId>]

**Response**

```
{ "LRFHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **LRFBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFBITExecute[&DeviceID=<devId>]

**Response**

```
{ "LRFBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LRFBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFBITAbort[&DeviceID=<devId>]

**Response**

```
{ "LRFBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LRFBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFBITResult[&DeviceID=<devId>]

**Response**

```
{ "LRFBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **LRFLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LRFLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "LRFLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Number_Of_Targets" : <longint>, "First_Range" : <longint>, "Last_Range" : <longint>, "Min_Range_Gate" : <longint>, "Max_Range_Gate" : <longint>, "Mode" : <integer>, "Target_id" : <longint>, "Target_Timestamp" : <string>, "Target_latitude_1" : <float>, "Target_longitude_1" : <float> } }
```

```
"Target_longitude_1" : <float>, "Target_latitude_2" : <float>, "Target_longitude_2" : <float>, "Total_number_of_shots" : <longint> } } }
```

- **LRFLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LRFLongBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "LRFLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **LRFDeviceVersionGet**

**Description**

Requests the device version string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LRFDeviceVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "LRFDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **LRFDeviceInfoGet**

**Description**

Requests the device info string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LRFDeviceInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "LRFDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DVRChannelNumberGet**

**Description**

Requests number of channels configured in DVR

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelNumberGet[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }
```

- **DVRChannelConfigurationGet**

**Description**

Requests configuration data of a channel

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelConfigurationGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ServerIT" : <string>, "ServerName" : <string>, "ServerIP" : <string>, "VideoID" : <integer>, "CameraType" : <integer>, "CameraID" : <integer> } } }
```

- **DVRChannelAdd**

**Description**

Adds a new channel and returns the new channel Id

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelAdd&ServerIP=<string>&ServerTCPPort=<integer>&VideoID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <integer> } } }
```

- **DVRChannelRemove**

**Description**

Removes a specific channel given its channel Id

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelRemove&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRChannelConfigurationSet**

**Description**

Sets configuration data of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRChannelConfigurationSet&ServerIP=<string>&ServerTCPPort=<integer>&VideoID=<integer>&Id=<integer>[&DeviceID=<devId>]

**Response**

{ "DVRChannelConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DVRRecordStart**

**Description**

Starts recording

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRecordStart&ChannelID=<integer>[&DeviceID=<devId>]

**Response**

{ "DVRRecordStart": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DVRRecordStop**

**Description**

Stops recording

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRecordStop&ChannelID=<integer>[&DeviceID=<devId>]

**Response**

{ "DVRRecordStop": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DVRRecordState**

**Description**

Requests recording state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRecordState&ChannelID=<integer>[&DeviceID=<devId>]

**Response**

{ "DVRRecordState": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }

- **DVRRecordModeSet**

**Description**

Enable continuous record mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRecordModeSet&ChannelID=<integer>&Record\_Mode=<integer>[&DeviceID=<devId>]

**Response**

{ "DVRRecordModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **DVRRecordModeGet**

**Description**

Gets the current record mode.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRecordModeGet&ChannelID=<integer>[&DeviceID=<devId>]

**Response**

{ "DVRRecordModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <integer> } } }

- **DVRCamerasQuery**

**Description**

Queries database for existing cameras

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRCamerasQuery[&DeviceID=<devId>]

**Response**

{ "DVRCamerasQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }

- **DVRMonthsQuery**

**Description**

Queries database for existing months for a given camera

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRMonthsQuery&Server\_IT=<string>&Video\_ID=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DVRMonthsQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRDaysQuery**

**Description**

Queries database for existing days for a given camera in a given month

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDaysQuery&Server_IT=<string>&Video_ID=<integer>&Year=<integer>&Month=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRDaysQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRRRecordsQuery**

**Description**

Queries database for existing records for a given camera in a given date

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRRecordsQuery&Server_IT=<string>&Video_ID=<integer>&Year=<integer>&Month=<integer>&Day=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRRRecordsQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRCamerasTimeQuery**

**Description**

Queries database

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRCamerasTimeQuery&Year=<integer>&Month=<integer>&Day=<integer>&Hour=<integer>&Minute=<integer>&Second=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRCamerasTimeQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRAccountQuery**

**Description**

Queries database for the number of existing alarms for a given sensor in a given date

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRAccountQuery&Server_IT=<string>&Year=<integer>&Month=<integer>&Day=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRAccountQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <longint> } } }
```

- **DVRAlarmInfoQuery**

**Description**

Returns the alarm info for a selected date starting at the selected index (pipe separated)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRAlarmInfoQuery&Server_IT=<string>&Year=<integer>&Month=<integer>&Day=<integer>&Start_Index=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRAlarmInfoQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string>, "End_Index" : <longint> } } }
```

- **DVRAlarmDaysQuery**

**Description**

Returns the list of the days with stored alarms for the selected month

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRAlarmDaysQuery&Server_IT=<string>&Year=<integer>&Month=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRAlarmDaysQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRAlarmMonthsQuery**

**Description**

Returns the list of the months with stored alarms for the selected server

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRAlarmMonthsQuery&Server_IT=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRAlarmMonthsQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRAccountDevicesQuery**

**Description**

Returns the list of the devices with stored alarms

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRAccountDevicesQuery[&DeviceID=<devId>]

**Response**

```
{ "DVRAccountDevicesQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRAccountSensorTotalCount**

**Description**

Queries database for the number of existing alarms for a given sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRAccountSensorTotalCount&Server\_IT=<string>[&DeviceID=<devId>]

**Response**

```
{ "DVRAccountSensorTotalCount": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <longint> } } }
```

- **DVRAccountSensorRetrieve**

**Description**

Queries database for a number of alarms starting at a given index. The index of the last returned alarm is provided so the user can check if all the alarms were retrieved

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRAccountSensorRetrieve&Server\_IT=<string>&Start\_Index=<longint>&Alarms\_to\_Return=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DVRAccountSensorRetrieve": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string>, "End_Index" : <longint> } } }
```

- **DVRAccountSensorTimePeriodTotalCount**

**Description**

Queries database for the number of existing alarms for a given sensor during the time interval defined by the start and end dates provided

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRAccountSensorTimePeriodTotalCount&Server\_IT=<string>&Start\_Year=<integer>&Start\_Month=<integer>&Start\_Day=<integer>&End\_Year=<integer>&End\_Month=<integer>&End\_Day=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DVRAccountSensorTimePeriodTotalCount": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <longint> } } }
```

- **DVRAccountSensorPeriodRetrieve**

**Description**

Queries database for a number of alarms for a given sensor during the time interval defined by the start and end dates provided, starting at a given index. The index of the last returned alarm is provided so the user can check if all the alarms were retrieved

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRAccountSensorPeriodRetrieve&Server\_IT=<string>&Start\_Year=<integer>&Start\_Month=<integer>&Start\_Day=<integer>&End\_Year=<integer>&End\_Month=<integer>&End\_Day=<integer>&Start\_Index=<longint>[&DeviceID=<devId>]

**Response**

```
{ "DVRAccountSensorPeriodRetrieve": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string>, "End_Index" : <longint> } } }
```

- **DVRClipCreate**

**Description**

Creates a clip and returns the URL for the player to connect

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRClipCreate&Server\_IT=<string>&Video\_ID=<integer>&Year\_Start=<integer>&Month\_Start=<integer>&Day\_Start=<integer>&Hour\_Start=<integer>&Minute\_Start=<integer>&Second\_Start=<integer>&Year\_End=<integer>&Month\_End=<integer>&Day\_End=<integer>&Hour\_End=<integer>&Minute\_End=<integer>&Second\_End=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DVRClipCreate": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "ClipId" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRClipCreateLength**

**Description**

Creates a clip and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRClipCreateLength&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Length=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRClipCreateLength": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "ClipId" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRClipCreateExt**

**Description**

Creates a clip and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRClipCreateExt&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Year_End=<integer>&Month_End=<integer>&Day_End=<integer>&Hour_End=<integer>&Minute_End=<integer>&Second_End=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRClipCreateExt": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "ClipId" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartYear" : <integer>, "RealStartMonth" : <integer>, "RealStartDay" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRClipCreateLengthExt**

**Description**

Creates a clip and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRClipCreateLengthExt&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Length=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRClipCreateLengthExt": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "ClipId" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartYear" : <integer>, "RealStartMonth" : <integer>, "RealStartDay" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRFileCreate**

**Description**

Creates a clip and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRFileCreate&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Year_End=<integer>&Month_End=<integer>&Day_End=<integer>&Hour_End=<integer>&Minute_End=<integer>&Second_End=<integer>&Speed=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRFileCreate": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "Id" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRFileCreateLength**

**Description**

Creates a clip and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRFileCreateLength&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Length=<longint>&Speed=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRFileCreateLength": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "Id" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRFileCreateExt**

**Description**

Creates a clip and returns the URL for the player to connect

#### **Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRFileCreateExt&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Year_End=<integer>&Month_End=<integer>&Day_End=<integer>&Hour_End=<integer>&Minute_End=<integer>&Second_End=<integer>&Speed=<longint>[&DeviceID=<devId>]
```

#### **Response**

```
{ "DVRFileCreateExt": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "Id" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartYear" : <integer>, "RealStartMonth" : <integer>, "RealStartDay" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRFileCreateLengthExt**

#### **Description**

Creates a clip and returns the URL for the player to connect

#### **Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRFileCreateLengthExt&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Length=<longint>&Speed=<longint>[&DeviceID=<devId>]
```

#### **Response**

```
{ "DVRFileCreateLengthExt": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "Id" : <integer>, "Width" : <integer>, "Height" : <integer>, "RealStartYear" : <integer>, "RealStartMonth" : <integer>, "RealStartDay" : <integer>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRBackupCreate**

#### **Description**

Creates a backup between the dates and times specified

#### **Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupCreate&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Year_End=<integer>&Month_End=<integer>&Day_End=<integer>&Hour_End=<integer>&Minute_End=<integer>&Second_End=<integer>[&DeviceID=<devId>]
```

#### **Response**

```
{ "DVRBackupCreate": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <longint>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRBackupCreateLength**

#### **Description**

Creates a backup that starts at the given date and time and has the given length

#### **Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupCreateLength&Server_IT=<string>&Video_ID=<integer>&Year_Start=<integer>&Month_Start=<integer>&Day_Start=<integer>&Hour_Start=<integer>&Minute_Start=<integer>&Second_Start=<integer>&Length=<longint>[&DeviceID=<devId>]
```

#### **Response**

```
{ "DVRBackupCreateLength": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <longint>, "RealStartHour" : <integer>, "RealStartMin" : <integer>, "RealStartSec" : <integer>, "RealLength" : <longint> } } }
```

- **DVRBackupCamerasQuery**

#### **Description**

Queries database for cameras for which there are backups

#### **Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupCamerasQuery[&DeviceID=<devId>]
```

#### **Response**

```
{ "DVRBackupCamerasQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRBackupMonthsQuery**

#### **Description**

Queries database for months on which there are backups of a given camera

#### **Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupMonthsQuery&Server_IT=<string>&Video_ID=<integer>[&DeviceID=<devId>]
```

#### **Response**

```
{ "DVRBackupMonthsQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRBackupDaysQuery**

**Description**

Queries database for days on which there are backups for a given camera in a given month

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupDaysQuery&Server_IT=<string>&Video_ID=<integer>&Year=<integer>&Month=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupDaysQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRBackupIdsQuery**

**Description**

Queries database for backup ids of a given camera in a given month and day. Result is given as a list of ids. The pointer to the first id is returned.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupIdsQuery&Server_IT=<string>&Video_ID=<integer>&Year=<integer>&Month=<integer>&Day=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupIdsQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Ids" : <longint> } } }
```

- **DVRBackupCamerasTimeQuery**

**Description**

Queries database for existing backups on the given date

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupCamerasTimeQuery&Year=<integer>&Month=<integer>&Day=<integer>&Hour=<integer>&Minute=<integer>&Second=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupCamerasTimeQuery": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRBackupData**

**Description**

Requests data of a backup

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupData&Id=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupData": { "Return Code" : "<code>", "Return String" : "<string>", { "ServerIT" : <string>, "ServerName" : <string>, "ServerIP" : <string>, "VideoID" : <integer>, "CameraType" : <integer>, "CameraID" : <integer>, "StartYear" : <integer>, "StartMonth" : <integer>, "StartDay" : <integer>, "StartHour" : <integer>, "StartMin" : <integer>, "StartSec" : <integer>, "Length" : <longint>, "Path" : <string> } } }
```

- **DVRBackupDelete**

**Description**

Deletes an existing backup

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupDelete&Id=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupDelete": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBackupClipCreate**

**Description**

Creates a clip from a given backup and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupClipCreate&Id=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupClipCreate": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "ClipId" : <integer>, "Width" : <integer>, "Height" : <integer>, "StartYear" : <integer>, "StartMonth" : <integer>, "StartDay" : <integer>, "StartHour" : <integer>, "StartMin" : <integer>, "StartSec" : <integer>, "Length" : <longint> } } }
```

- **DVRBackupFileCreate**

**Description**

Creates a clip from a given backup and returns the URL for the player to connect

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupFileCreate&Id=<longint>&Speed=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupFileCreate": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string>, "ClipId" : <integer>, "Width" : <integer>, "Height" : <integer>, "StartYear" : <integer>, "StartMonth" : <integer>, "StartDay" : <integer>, "StartHour" : <integer>, "StartMin" : <integer>, "StartSec" : <integer>, "Length" : <longint> } } }
```

- **DVRChannelSchedulerIntervalsGet**

**Description**

Returns the scheduling intervals defined on a channel. FORMAT: Interval ID,Start Hour,Start Min,End Hour,End Min,Start Day,End Day. Intervals separated by |

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalsGet&ChannelID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRChannelSchedulerIntervalsRemoveAll**

**Description**

Deletes ALL the scheduling intervals defined on a channel

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalsRemoveAll&ChannelID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalsRemoveAll": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRChannelSchedulerIntervalRemove**

**Description**

Deletes a scheduling interval

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalRemove&ChannelID=<integer>&Interval=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRChannelSchedulerIntervalAdd**

**Description**

Adds an scheduling interval to a channel with the lowest ID available.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalAdd&IntervalName=<string>&ChannelID=<integer>&StartDay=<integer>&StartHour=<integer>&StartMin=<integer>&EndDay=<integer>&EndHour=<integer>&EndMin=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRChannelSchedulerIntervalNameGet**

**Description**

Returns the name of an interval

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalNameGet&ChannelID=<integer>&Interval=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRChannelSchedulerIntervalGet**

**Description**

Returns the information of a single scheduling interval. FORMAT: Interval ID,Interval Name,Start Hour,Start Min,End Hour,End Min,Start Day,End Day

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalGet&ChannelID=<integer>&Interval=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Result" : <string> } } }
```

- **DVRChannelSchedulerIntervalSet**

**Description**

Changes the configuration for the specified interval

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalSet&IntervalName=<string>&ChannelID=<integer>&Interval=<integer>&StartDay=<integer>&StartHour=<integer>&StartMin=<integer>&EndDay=<integer>&EndHour=<integer>&EndMin=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRChannelSchedulerIntervalNameSet**

**Description**

Changes the name of an existing interval

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRChannelSchedulerIntervalNameSet&IntervalName=<string>&ChannelID=<integer>&Interval=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRChannelSchedulerIntervalNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRVideoPathAdd**

**Description**

Adds a video path. Requires server restart.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoPathAdd&Path=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRVideoPathAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "PathID" : <integer> } } }
```

- **DVRVideoPathGet**

**Description**

Gets a Video Path.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoPathGet&PathID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRVideoPathGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Path" : <string> } } }
```

- **DVRVideoPathSet**

**Description**

Changes a Video Path. Requires server restart.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoPathSet&Path=<string>&PathID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRVideoPathSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRVideoPathRemove**

**Description**

Removes a video path. Requires server restart.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoPathRemove&PathID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRVideoPathRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBackupPathAdd**

**Description**

Adds a Backup Path. Requires server restart.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupPathAdd&Path=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupPathAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "PathID" : <integer> } } }
```

- **DVRBackupPathGet**

**Description**

Gets a Backup Path.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupPathGet&PathID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupPathGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Path" : <string> } } }
```

- **DVRBackupPathSet**

**Description**

Changes a Backup Path. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupPathSet&Path=<string>&PathID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupPathSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBackupPathRemove**

**Description**

Removes a Backup Path. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupPathRemove&PathID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupPathRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBackupEnableSet**

**Description**

Enables or Disables the backups. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupEnableSet&State=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBackupEnableGet**

**Description**

Returns the Backup State (Enabled or Disabled).

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupEnableGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **DVRBackupMaxLengthSet**

**Description**

Sets the maximum duration for backups. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupMaxLengthSet&Length=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupMaxLengthSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBackupMaxLengthGet**

**Description**

Gets the maximum duration for backups.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupMaxLengthGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRBackupMaxLengthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Length" : <integer> } } }
```

- **DVRRTSPInterfaceAddressSet**

**Description**

Changes the nDVR RTSP Interface Address. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRTSPInterfaceAddressSet&Address=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DVRRTSPInterfaceAddressSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRRTSPIfaceAddressGet**

**Description**

Returns the nDVR RTSP Interface Address.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRTSPIfaceAddressGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRRTSPIfaceAddressGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IP" : <string> } } }
```

- **DVRRTSPIfacePortSet**

**Description**

Changes the nDVR RTSP Interface Port. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRTSPIfacePortSet&Port=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRRTSPIfacePortSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRRTSPIfacePortGet**

**Description**

Returns the nDVR RTSP Interface Port.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRTSPIfacePortGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRRTSPIfacePortGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Port" : <integer> } } }
```

- **DVRVideoFilesPartialCloseTimeSet**

**Description**

Sets the video files update on HDD frequency. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoFilesPartialCloseTimeSet&Seconds=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRVideoFilesPartialCloseTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRVideoFilesPartialCloseTimeGet**

**Description**

Returns the video files update on HDD frequency.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoFilesPartialCloseTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRVideoFilesPartialCloseTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Seconds" : <integer> } } }
```

- **DVRRotationCheckPeriodSet**

**Description**

Sets the Rotation Period. Requires server restart.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRotationCheckPeriodSet&Minutes=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRRotationCheckPeriodSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRRotationCheckPeriodGet**

**Description**

Gets the Rotation Period.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRRotationCheckPeriodGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRRotationCheckPeriodGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Minutes" : <integer> } } }
```

- **DVRVideoPathIdsGet**

**Description**

Gets the Ids for the defined Video Drives.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoPathIdsGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRVideoPathIdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IDs" : <string> } } }
```

**• DVRVideoPathStatsGet****Description**

Gets the statistics of a Video Path.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRVideoPathStatsGet&PathID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRVideoPathStatsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Statistics" : <string> } } }
```

**• DVRBackupPathIdsGet****Description**

Gets the IDs for the defined Backup Drives.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupPathIdsGet[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupPathIdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IDs" : <string> } } }
```

**• DVRBackupPathStatsGet****Description**

Gets the statistics of a Backup Path.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRBackupPathStatsGet&PathID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRBackupPathStatsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Statistics" : <string> } } }
```

**• DVRDatabaseEraseRecordsByChannel****Description**

Erases the nDVR records associated to the selected Server ID/Video ID.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseEraseRecordsByChannel&Server_ID=<string>&Video_ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRDatabaseEraseRecordsByChannel": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRDatabaseEraseAll****Description**

Erases all the nDVR content (video files and database entries)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseEraseAll[&DeviceID=<devId>]
```

**Response**

```
{ "DVRDatabaseEraseAll": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRDatabaseEraseAllByDate****Description**

Erases all the nDVR content from StartDate to EndDate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseEraseAllByDate&StartYear=<integer>&StartMonth=<integer>&StartDay=<integer>&StartHour=<integer>&StartMinute=<integer>&StartSecond=<integer>&EndYear=<integer>&EndMonth=<integer>&EndDay=<integer>&EndHour=<integer>&EndMinute=<integer>&EndSecond=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRDatabaseEraseAllByDate": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRDatabaseEraseRecordsByChannelDate****Description**

Erases the nDVR records associated to the selected Served ID/Video ID from StartDate to EndDate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseEraseRecordsByChannelDate&Server_ID=<string>&Video_ID=<integer>&StartYear=<integer>&StartMonth=<integer>&StartDay=<integer>&StartHour=<integer>&StartMinute=<integer>&StartSecond=<integer>&EndYear=<integer>&EndMonth=<integer>&EndDay=<integer>&EndHour=<integer>&EndMinute=<integer>&EndSecond=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRDatabaseEraseRecordsByChannelDate": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRDatabaseStatusCheck**

**Description**

Checks the nDVR Database status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRDatabaseStatusCheck[&DeviceID=<devId>]

**Response**

```
{ "DVRDatabaseStatusCheck": { "Return Code" : "<code>", "Return String" : "<string>", { "DBStatus" : <integer> } } }
```

- **DVRDatabaseRepair**

**Description**

Attempts to repair the nDVR Database

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRDatabaseRepair[&DeviceID=<devId>]

**Response**

```
{ "DVRDatabaseRepair": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **DVRRotationDiskParamsSet**

**Description**

Sets the disk rotation parameters. When free disk is below the limit and status is active, files older than Rotation Time Limit will be deleted

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRotationDiskParamsSet&Limit=<integer>&Status=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DVRRotationDiskParamsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRRotationDiskParamsGet**

**Description**

Gets the disk rotation parameters.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRotationDiskParamsGet[&DeviceID=<devId>]

**Response**

```
{ "DVRRotationDiskParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Limit" : <integer>, "Status" : <integer> } } }
```

- **DVRRotationTimeParamsSet**

**Description**

Sets the time rotation limit. When Rotation Time Limit is greater than 0, files older than Rotation Time Limit will be deleted

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRotationTimeParamsSet&Limit=<integer>&Status=<integer>[&DeviceID=<devId>]

**Response**

```
{ "DVRRotationTimeParamsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRRotationTimeParamsGet**

**Description**

Gets the time rotation parameters.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRRotationTimeParamsGet[&DeviceID=<devId>]

**Response**

```
{ "DVRRotationTimeParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Limit" : <integer>, "Status" : <integer> } } }
```

- **DVRDatabasePathStatsGet**

**Description**

Gets the statistics of the nDVR Database Path.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRDatabasePathStatsGet[&DeviceID=<devId>]

**Response**

```
{ "DVRDatabasePathStatsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Statistics" : <string> } } }
```

- **DVRDatabaseInfoGet**

**Description**

Gets the nDVR Database Info.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseInfoGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRDatabaseInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Database_Info" : <string> } } }
```

- **DVRDatabaseEraseAllByServer**

**Description**

Erases all the nDVR content associated to the selected Served ID

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseEraseAllByServer&Server_ID=<string>[&DeviceID=<devId>]`

**Response**

```
{ "DVRDatabaseEraseAllByServer": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRDatabaseEraseAllByServerDate**

**Description**

Erases all the nDVR content associated to the selected Served ID from StartDate to EndDate

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRDatabaseEraseAllByServerDate&Server_ID=<string>&StartYear=<integer>&StartMonth=<integer>&StartDay=<integer>&StartHour=<integer>&StartMinute=<integer>&StartSecond=<integer>&EndYear=<integer>&EndMonth=<integer>&EndDay=<integer>&EndHour=<integer>&EndMinute=<integer>&EndSecond=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRDatabaseEraseAllByServerDate": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorAdd**

**Description**

Adds a Sensor.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorAdd&IP=<string>&TCPPort=<integer>&CreateVideo=<integer>&AutoStart=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "ID" : <integer> } } }
```

- **DVRSensorRemove**

**Description**

Removes a Sensor and all the associated video channels found on the nDVR.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRemove&ID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorListGet**

**Description**

Returns a list containing the active Sensor IDs.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorListGet[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IDs" : <string> } } }
```

- **DVRSensorStartRecording**

**Description**

Starts the recording of the Sensor Data and all its associated video channels

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorStartRecording&ID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorStartRecording": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorStopRecording**

**Description**

Stops the recording of the Sensor Data and all its associated video channels

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorStopRecording&ID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorStopRecording": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRSensorRecConfigGet****Description**

Returns the recording settings for the Sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigGet&ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Recording_Mode" : <integer>, "Data_Interval" : <longint> } } }
```

**• DVRSensorRecConfigSet****Description**

Sets the recording settings for the Sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigSet&ID=<integer>&Recording_Mode=<integer>&Data_Interval=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRSensorRecConfigAlarmsGet****Description**

Returns the recording settings for the Sensor's Alarms Metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigAlarmsGet&ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigAlarmsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rec_Alarms" : <integer> } } }
```

**• DVRSensorRecConfigAlarmsSet****Description**

Sets the recording settings for the Sensor's Alarms Metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigAlarmsSet&ID=<integer>&Rec_Alarms=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigAlarmsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRSensorRecConfigTHGGet****Description**

Returns the recording settings for the Sensor's THG Metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigTHGGet&ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigTHGGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rec_THG" : <integer> } } }
```

**• DVRSensorRecConfigTHGSet****Description**

Sets the recording settings for the Sensor's THG Metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigTHGSet&ID=<integer>&Rec_THG=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigTHGSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• DVRSensorRecConfigMetadataGet****Description**

Returns the recording settings for the Sensor's VIDEO,IR,DLTV,GEO and PLAT metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigMetadataGet&ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigMetadataGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rec_Metadata" : "<string>" } } }
```

- **DVRSensorRecConfigMetadataSet**

**Description**

Sets the recording settings for the Sensor's VIDEO,IR,DLTV,GEO and PLAT metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigMetadataSet&Rec_Metadata=<string>&ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigMetadataSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorRecConfigRawGet**

**Description**

Returns the recording settings for the Sensor's Raw Metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigRawGet&ID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigRawGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rec_Raw" : <integer> } } }
```

- **DVRSensorRecConfigRawSet**

**Description**

Sets the recording settings for the Sensor's Raw Metadata

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigRawSet&ID=<integer>&Rec_Raw=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigRawSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorConfigGet**

**Description**

Returns the Sensor configuration settings for IP and Port

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorConfigGet&SensorID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IP" : <string>, "TCPPort" : <integer> } } }
```

- **DVRSensorRecConfigVideoIndexGet**

**Description**

Returns the IDs of the Active Sensors

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigVideoIndexGet&SensorID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigVideoIndexGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Indexes" : <string> } } }
```

- **DVRSensorRecConfigVideoGet**

**Description**

Tells whether a video ID is enabled or not, and its configuration.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigVideoGet&SensorID=<integer>&VideoID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorRecConfigVideoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "ChannelID" : <integer>, "Device_Type" : <integer>, "Device_ID" : <integer> } } }
```

- **DVRSensorRecConfigVideoSet**

**Description**

Sets a video ID status ( 1 to create it, 0 to delete it )

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigVideoSet&SensorID=<integer>&VideoID=<integer>&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigVideoSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorRecConfigAlarmSnapSet**

**Description**

Sets the recording settings for the Sensor's Alarm Triggered Snapshots

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigAlarmSnapSet&ID=<integer>&Status=<integer>&Snapshots=<integer>&Mode=<integer>&Interval=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigAlarmSnapSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorRecConfigAlarmSnapGet**

**Description**

Returns the recording settings for the Sensor's Alarm Triggered Snapshots

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigAlarmSnapGet&ID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigAlarmSnapGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer>, "Sapshots" : <integer>, "Mode" : <integer>, "Interval" : <integer> } } }
```

- **DVRSensorRecConfigScanlistSnapSet**

**Description**

Sets the recording settings for the Sensor's Scanlist Snapshots

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigScanlistSnapSet&ID=<integer>&Status=<integer>&Settle_Time=<integer>&Acquisition_Time=<integer>&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigScanlistSnapSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorRecConfigScanlistSnapGet**

**Description**

Returns the recording settings for the Sensor's Scanlist Snapshots

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigScanlistSnapGet&ID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigScanlistSnapGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer>, "Settle_Time" : <integer>, "Acquisition_Time" : <integer>, "Mode" : <integer> } } }
```

- **DVRSensorRecConfigPeriodicSnapSet**

**Description**

Sets the recording settings for the Sensor's Periodic Snapshots

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigPeriodicSnapSet&ID=<integer>&Status=<integer>&Interval=<longint>&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigPeriodicSnapSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorRecConfigPeriodicSnapGet**

**Description**

Returns the recording settings for the Sensor's Periodic Snapshots

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorRecConfigPeriodicSnapGet&ID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorRecConfigPeriodicSnapGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer>, "Interval" : <longint>, "Mode" : <integer> } } }
```

- **DVRSensorSchdIntervalListGet**

**Description**

Returns the list of configured interval IDs

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalListGet&SensorID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Intervals" : <string> } } }
```

- **DVRSensorSchdIntervalConfigGet**

**Description**

Returns the basic configuration for the selected interval

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalConfigGet&SensorID=<integer>&IntervalID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : <string> } } }
```

- **DVRSensorSchdIntervalConfigSet**

**Description**

Sets the basic configuration for the selected interval

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalConfigSet&Name=<string>&SensorID=<integer>&IntervalID=<integer>&StartDay=<integer>&StartHour=<integer>&StartMin=<integer>&EndDay=<integer>&EndHour=<integer>&EndMin=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalConfigSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorSchdIntervalRecConfigGet**

**Description**

Returns the recording configuration for the selected interval

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalRecConfigGet&SensorID=<integer>&IntervalID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalRecConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : <string> } } }
```

- **DVRSensorSchdIntervalRecConfigSet**

**Description**

Sets the basic configuration for the selected interval

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalRecConfigSet&Configuration=<string>&SensorID=<integer>&IntervalID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalRecConfigSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorSchdIntervalAdd**

**Description**

Adds a new interval with the selected basic configuration. The recording configuration must be set later. Initially, the INI parameters are set for the recording parameteres

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalAdd&Name=<string>&SensorID=<integer>&StartDay=<integer>&StartHour=<integer>&StartMin=<integer>&EndDay=<integer>&EndHour=<integer>&EndMin=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "IntervalID" : <integer> } } }
```

- **DVRSensorSchdIntervalRemove**

**Description**

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalRemove&SensorID=<integer>&IntervalID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "DVRSensorSchdIntervalRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorSchdIntervalRemoveAll**

**Description**

Removes all the intervals defined for the sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSchdIntervalRemoveAll&SensorID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorSchdIntervalRemoveAll": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorSnapChannel**

**Description**

Gets an snapshot for the selected channel ID on Sensor ID

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSnapChannel&SensorID=<integer>&ChannelID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorSnapChannel": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorSnapDevice**

**Description**

Gets an snapshot for the selected Device Type - Device ID combination on Sensor ID

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSnapDevice&SensorID=<integer>&DeviceType=<integer>&DeviceID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorSnapDevice": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSensorSnap**

**Description**

Gets all the available snapshots for the selected Sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSensorSnap&SensorID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSensorSnap": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRSnapshotURLGet**

**Description**

Returns the URL where the snapshot with the specified snapshot ID can be opened

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRSnapshotURLGet&SnapshotID=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRSnapshotURLGet": { "Return Code" : "<code>", "Return String" : "<string>", { "URL" : <string> } } }
```

- **DVRAlarmSnapshotsURLsGet**

**Description**

Returns the info of the Snapshot(s) corresponding to the AlarmID index found in the nDVR database.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRAlarmSnapshotsURLsGet&AlarmID=<longint>&Start_Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRAlarmSnapshotsURLsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Snapshot_Info" : <string>, "End_Index" : <integer> } } }
```

- **DVRAlarmSnapshotsCountGet**

**Description**

Returns the number of Snapshot(s) corresponding to the AlarmID index found in the nDVR database.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=DVRAlarmSnapshotsCountGet&AlarmID=<longint>[&DeviceID=<devId>]
```

**Response**

```
{ "DVRAlarmSnapshotsCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **DVRBITEExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRBITExecute[&DeviceID=<devId>]

**Response**

```
{ "DVRBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRBITAbort[&DeviceID=<devId>]

**Response**

```
{ "DVRBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **DVRBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRBITResult[&DeviceID=<devId>]

**Response**

```
{ "DVRBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **DVRLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "DVRLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "RTP_Interface" : <string>, "RTP_Port" : <integer>, "Channels" : <integer> } } }
```

- **DVRLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "DVRLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **DVRDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "DVRDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **DVRDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=DVRDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "DVRDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **VPUChannelNumberGet**

**Description**

Requests number of channels configured in VPU

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUChannelNumberGet[&DeviceID=<devId>]

**Response**

```
{ "VPUChannelNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }
```

- **VPUChannelConfigurationGet**

**Description**

Requests configuration data of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUChannelConfigurationGet&Id=<integer>[&DeviceID=<devId>]

**Response**

{ "VPUChannelConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ServerIT" : <string>, "ServerName" : <string>, "ServerIP" : <string>, "VideoID" : <integer>, "CameraType" : <integer>, "CameralD" : <integer> } } }

- **VPUVideoFormatGet**

**Description**

Requests video format values of a VPU channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUVideoFormatGet&Id=<integer>[&DeviceID=<devId>]

**Response**

{ "VPUVideoFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Codec\_format" : <integer>, "MUX\_Format" : <integer>, "Width" : <integer>, "Height" : <integer> } } }

- **VPUVideoRecastConfigGet**

**Description**

Requests recast configuration of a VPU channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUVideoRecastConfigGet&Id=<integer>[&DeviceID=<devId>]

**Response**

{ "VPUVideoRecastConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Address" : <string>, "Port" : <integer>, "Transmission\_Type" : <integer> } } }

- **VPUPreprocessedVideoRecastConfigGet**

**Description**

Requests preprocessed video recast configuration of a VPU channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUPreprocessedVideoRecastConfigGet&Id=<integer>[&DeviceID=<devId>]

**Response**

{ "VPUPreprocessedVideoRecastConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "Address" : <string>, "Port" : <integer>, "Type" : <integer> } } }

- **VPUProfileUpload**

**Description**

Uploads a profile from a local file to the server

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUProfileUpload&Channel=<integer>&Profile=<string>&File=<string>[&DeviceID=<devId>]

**Response**

{ "VPUProfileUpload": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VPUProfileDownload**

**Description**

Downloads an existing profile to a local file

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUProfileDownload&Channel=<integer>&Profile=<string>&File=<string>[&DeviceID=<devId>]

**Response**

{ "VPUProfileDownload": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VPUProfilesList**

**Description**

Lists profiles available in server

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUProfilesList&Channel=<integer>[&DeviceID=<devId>]

**Response**

{ "VPUProfilesList": { "Return Code" : "<code>", "Return String" : "<string>", { "Profiles" : <string> } } }

- **VPUProfileApply**

**Description**

Applies a profile to a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUProfileApply&Channel=<integer>&Profile=<string>[&DeviceID=<devId>]

**Response**

```
{ "VPUProfileApply": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VPUProfileDelete**

**Description**

Deletes a profile

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUProfileDelete&Channel=<integer>&Profile=<string>[&DeviceID=<devId>]

**Response**

```
{ "VPUProfileDelete": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VPUProfileRequest**

**Description**

Asks the server what profile is being used by a given channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUProfileRequest&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VPUProfileRequest": { "Return Code" : "<code>", "Return String" : "<string>", { "Profile" : <string> } } }
```

- **VPUAlarmReset**

**Description**

Resets alarm of a given channel and area

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUAlarmReset&Channel=<integer>&AreaId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VPUAlarmReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VPUAllAlarmsReset**

**Description**

Resets all alarm of a given channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUAllAlarmsReset&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VPUAllAlarmsReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VPUBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUBITExecute[&DeviceID=<devId>]

**Response**

```
{ "VPUBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VPUBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUBITAbort[&DeviceID=<devId>]

**Response**

```
{ "VPUBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VPUBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VPUBITResult[&DeviceID=<devId>]

**Response**

```
{ "VPUBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

**• VPULastNMEAGet****Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VPULastNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "VPULastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : "<string>" } } }
```

**• VPULongBITResult****Description**

Requests result string of last BIT routine executed associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VPULongBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "VPULongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

**• VPUDeviceVersionGet****Description**

Requests the device version string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VPUDeviceVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "VPUDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

**• VPUDeviceInfoGet****Description**

Requests the device info string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VPUDeviceInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "VPUDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

**• GPSRawCommandSend****Description**

Sends a command to the GPS

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "GPSRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

**• GPSRawCommandASCIISend****Description**

Sends a command to the GPS

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "GPSRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

**• GPSHealthGet****Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "GPSHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

**• GPSBITExecute****Description**

Starts execution of BIT routine associated to this device

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSBITExecute\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSBITExecute[&DeviceID=<devId>])

**Response**

```
{ "GPSBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GPSBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSBITAbort\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSBITAbort[&DeviceID=<devId>])

**Response**

```
{ "GPSBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GPSBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSBITResult\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSBITResult[&DeviceID=<devId>])

**Response**

```
{ "GPSBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **GPSLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSLastNMEAGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSLastNMEAGet[&DeviceID=<devId>])

**Response**

```
{ "GPSLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "UTC_Time" : <string>, "Latitude" : <string>, "Latitude_Sign" : <string>, "Longitude" : <string>, "Longitude_Sign" : <string>, "Position_Fix" : <integer>, "Satellites_Used" : <integer>, "HDOP" : <float>, "Altitude" : <float>, "Altitude_Units" : <string>, "Geoid_Separation" : <float>, "Separation_Units" : <string>, "DGPS_Age" : <integer>, "Last_field" : <string> } } }
```

- **GPSLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSLongBITResult\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSLongBITResult[&DeviceID=<devId>])

**Response**

```
{ "GPSLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **GPSDeviceVersionGet**

**Description**

Requests the device version string

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSDeviceVersionGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSDeviceVersionGet[&DeviceID=<devId>])

**Response**

```
{ "GPSDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GPSDeviceInfoGet**

**Description**

Requests the device info string

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GPSDeviceInfoGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GPSDeviceInfoGet[&DeviceID=<devId>])

**Response**

```
{ "GPSDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GYROCalibrationStart**

**Description**

Starts a calibration routine

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=GYROCalibrationStart\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GYROCalibrationStart[&DeviceID=<devId>])

**Response**

```
{ "GYROCalibrationStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GYROCalibrationStop**

**Description**

Stops a calibration routine

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROCalibrationStop[&DeviceID=<devId>]

**Response**

```
{ "GYROCalibrationStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GYROCalibrationNoiseScoreGet**

**Description**

Requests noise score of a previous calibration routine

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROCalibrationNoiseScoreGet[&DeviceID=<devId>]

**Response**

```
{ "GYROCalibrationNoiseScoreGet": { "Return Code" : "<code>", "Return String" : "<string>", { "NoiseScore" : <float> } } }
```

- **GYRORawCommandSend**

**Description**

Sends a command to the GYRO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYRORawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "GYRORawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GYRORawCommandASCIISend**

**Description**

Sends a command to the GYRO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYRORawCommandASCIISend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "GYRORawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GYROHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROHealthGet[&DeviceID=<devId>]

**Response**

```
{ "GYROHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **GYROBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROBITExecute[&DeviceID=<devId>]

**Response**

```
{ "GYROBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GYROBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROBITAbort[&DeviceID=<devId>]

**Response**

```
{ "GYROBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GYROBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROBITResult[&DeviceID=<devId>]

**Response**

```
{ "GYROBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **GYROLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROLastNMEAGet[&DeviceID=<devId>]

**Response**

```
{ "GYROLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Heading" : <float>, "Last_field" : <string> } } }
```

- **GYROLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYROLongBITResult[&DeviceID=<devId>]

**Response**

```
{ "GYROLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **GYRODeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYRODeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "GYRODeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GYRODeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GYRODeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "GYRODeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IOSENSORStateGet**

**Description**

Requests state of IO sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOSENSORStateGet[&DeviceID=<devId>]

**Response**

```
{ "IOSENSORStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **IOSENORAcknowledgeSend**

**Description**

Acknowledges an input channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOSENORAcknowledgeSend&Input=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IOSENORAcknowledgeSend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOENSORResetSend**

**Description**

Resets input state

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOENSORResetSend&Input=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IOENSORResetSend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOENSORTriggerActionSend**

**Description**

Triggers an action in given input

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOENSORTriggerActionSend&Input=<integer>[&DeviceID=<devId>]

**Response**

```
{ "IOSENSORTriggerActionSend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORPortStateGet**

**Description**

Requests state of a port of an IO sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORPortStateGet&Port=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORPortStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **IOSENSORPortStateSet**

**Description**

Sets state of a port on an IO sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORPortStateSet&Port=<integer>&State=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORPortStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORTOutputStateSet**

**Description**

Sets state of an output on an IO sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORTOutputStateSet&Port=<integer>&Output=<integer>&State=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORTOutputStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORTOutputStateGet**

**Description**

Requests state of an output on an IO sensor

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORTOutputStateGet&Port=<integer>&Output=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORTOutputStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **IOSENSTORAlarmStatusSet**

**Description**

Sets the alarm status of an IO

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSTORAlarmStatusSet&io=<integer>&Status=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSTORAlarmStatusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSTORAlarmStatusGet**

**Description**

Requests the alarm status of an IO

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSTORAlarmStatusGet&io=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSTORAlarmStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **IOSENSORTOutputResetIntervalSet**

**Description**

Sets the alarm status of an IO

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORTOutputResetIntervalSet&io=<integer>&ResetInterval=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORTOutputResetIntervalSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSOROutputResetIntervalGet**

**Description**

Requests the alarm status of an IO

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSOROutputResetIntervalGet&io=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSOROutputResetIntervalGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ResetInterval" : <integer> } } }
```

- **IOSENSOROutputDefaultsSet**

**Description**

Sets current state as default

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSOROutputDefaultsSet&io=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSOROutputDefaultsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSOROutputDefaultsRestore**

**Description**

Restores default state value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSOROutputDefaultsRestore&io=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSOROutputDefaultsRestore": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORSaveToDefaults**

**Description**

Sets current state as default

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORSaveToDefaults[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORSaveToDefaults": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENRORestoreToDefaults**

**Description**

Restores default state value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORestoreToDefaults[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENRORestoreToDefaults": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORPortConfigurationSet**

**Description**

Sets configuration af an IO sensor port

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORPortConfigurationSet&Port=<integer>&Configuration=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORPortConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORPortConfigurationGet**

**Description**

Requests configuration af an IO sensor port

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORPortConfigurationGet&Port=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "IOSENSORPortConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : <integer> } } }
```

- **IOSENSORIOConfigurationSet**

**Description**

Sets configuration of an IO sensor IO

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORIOConfigurationSet&Port=<integer>&io=<integer>&Configuration=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENSORIOConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORIOConfigurationGet**

**Description**

Requests configuration of an IO sensor IO

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORIOConfigurationGet&Port=<integer>&io=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENSORIOConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : <integer> } } }
```

- **IOSENSORIOConfigurationRegisterSet**

**Description**

Sets contents of an IO sensor configuration register

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORIOConfigurationRegisterSet&Address_Hi=<integer>&Address_Lo=<integer>&Data_Hi=<integer>&Data_Lo=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENSORIOConfigurationRegisterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENSORIOConfigurationRegisterGet**

**Description**

Requests contents of an IO sensor configuration register

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORIOConfigurationRegisterGet&Address_Hi=<integer>&Address_Lo=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENSORIOConfigurationRegisterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Data_Hi" : <integer>, "Data_Lo" : <integer> } } }
```

- **IOSENGORGeolocationSet**

**Description**

Sets the location of a sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENGORGeolocationSet&Port=<integer>&Id=<integer>&Latitude=<double>&Longitude=<double>&Height=<float>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENGORGeolocationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENGORGeolocationGet**

**Description**

Requests configuration of an IO sensor IO

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENGORGeolocationGet&Port=<integer>&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENGORGeolocationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude" : <double>, "Longitude" : <double>, "Height" : <float> } } }
```

- **IOSENGORRawCommandSend**

**Description**

Sends a command to the IOSENSOR

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENGORRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENGORRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IOSENGORRawCommandASCIISend**

**Description**

Sends a command to the IOSENSOR

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "IOSENSORRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : "<string>" } } }
```

- **IOSENSORHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENSORHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "IOSENSORHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **IOSENRORBIEExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORBIEExecute[&DeviceID=<devId>]`

**Response**

```
{ "IOSENRORBIEExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENRORBIAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORBIAbort[&DeviceID=<devId>]`

**Response**

```
{ "IOSENRORBIAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **IOSENRORBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORBITResult[&DeviceID=<devId>]`

**Response**

```
{ "IOSENRORBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **IOSENRORLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORLastNMEAGet[&DeviceID=<devId>]`

**Response**

```
{ "IOSENRORLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "NumberOfIOs" : <integer>, "RawNotification" : <string> } } }
```

- **IOSENRORLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORLongBITResult[&DeviceID=<devId>]`

**Response**

```
{ "IOSENRORLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **IOSENRORDeviceVersionGet**

**Description**

Requests the device version string

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=IOSENRORDeviceVersionGet[&DeviceID=<devId>]`

**Response**

```
{ "IOSENRORDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **IOSENSORDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOSENSORDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "IOSENSORDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : "<string>" } } }
```

- **IOSENSORWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOSENSORWebSettingsSet&Settings=<string>[&DeviceID=<devId>]

**Response**

```
{ "IOSENSORWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : "<string>" } } }
```

- **IOSENSORWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOSENSORWebSettingsGet[&DeviceID=<devId>]

**Response**

```
{ "IOSENSORWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : "<string>" } } }
```

- **IOSENRORestoreFactoryDefault**

**Description**

Restores factory default settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=IOSENRORestoreFactoryDefault[&DeviceID=<devId>]

**Response**

```
{ "IOSENRORestoreFactoryDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARModeSet**

**Description**

Sets operating mode of radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARModeGet**

**Description**

Sets operating mode of radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARModeGet[&DeviceID=<devId>]

**Response**

```
{ "RADARModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **RADARVelocityThresholdsSet**

**Description**

Sets minimum and maximum velocity thresholds of radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARVelocityThresholdsSet&Min\_Velocity\_Threshold=<float>&Max\_Velocity\_Threshold=<float>[&DeviceID=<devId>]

**Response**

```
{ "RADARVelocityThresholdsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARVelocityThresholdsGet**

**Description**

Requests minimum and maximum velocity thresholds of radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARVelocityThresholdsGet[&DeviceID=<devId>]

**Response**

```
{
  "RADARVelocityThresholdsGet": { "Return Code" : "<code>", "Return String" : "<string>", {
    "Min_Velocity_Threshold" : <float>, "Max_Velocity_Threshold" : <float> } } }
```

- **RADARFrequencySet**

**Description**

Sets transmitted pulse frequency of the radar

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RADARFrequencySet&Frequency=<float>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARFrequencySet&Frequency=<float>[&DeviceID=<devId>])

**Response**

```
{ "RADARFrequencySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARFrequencyGet**

**Description**

Requests transmitted pulse frequency of the radar

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RADARFrequencyGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARFrequencyGet[&DeviceID=<devId>])

**Response**

```
{ "RADARFrequencyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Frequency" : <float> } } }
```

- **RADARFrequencyIndexSet**

**Description**

Sets transmitted pulse frequency of the radar by index

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RADARFrequencyIndexSet&FrequencyIndex=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARFrequencyIndexSet&FrequencyIndex=<integer>[&DeviceID=<devId>])

**Response**

```
{ "RADARFrequencyIndexSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARFrequencyIndexGet**

**Description**

Requests index of transmitted pulse frequency of the radar

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RADARFrequencyIndexGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARFrequencyIndexGet[&DeviceID=<devId>])

**Response**

```
{ "RADARFrequencyIndexGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FrequencyIndex" : <integer> } } }
```

- **RadarDetectionThresholdSet**

**Description**

Sets the sensitivity threshold of the radar

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RADARDetectionThresholdSet&Detection\\_Threshold=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARDetectionThresholdSet&Detection_Threshold=<integer>[&DeviceID=<devId>])

**Response**

```
{ "RADARDetectionThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarDetectionThresholdGet**

**Description**

Requests the sensitivity threshold of the radar

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RADARDetectionThresholdGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARDetectionThresholdGet[&DeviceID=<devId>])

**Response**

```
{ "RADARDetectionThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Detection_Threshold" : <integer> } } }
```

- **RadarSTCCurveSet**

**Description**

Sets the sensitivity time control curve

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=RadarSTCCurveSet&STC=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarSTCCurveSet&STC=<integer>[&DeviceID=<devId>])

**Response**

```
{ "RadarSTCCurveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARSTCCurveGet**

**Description**

Requests the value of the sensitivity time control curve used by the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARSTCCurveGet[&DeviceID=<devId>]

**Response**

```
{ "RADARSTCCurveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "STC" : <integer> } } }
```

- **RADARRPMSet**

**Description**

Sets the scan speed of the radar in RPMs

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRPMSet&RPM=<float>[&DeviceID=<devId>]

**Response**

```
{ "RADARRPMSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARRPMGet**

**Description**

Requests the scan speed of the radar in RPMs

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRPMGet[&DeviceID=<devId>]

**Response**

```
{ "RADARRPMGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RPM" : <float> } } }
```

- **RADARRPMIndexSet**

**Description**

Sets the scan speed of the radar by index

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRPMIndexSet&RPMIndex=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARRPMIndexSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARRPMIndexGet**

**Description**

Requests index of scan speed of the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRPMIndexGet[&DeviceID=<devId>]

**Response**

```
{ "RADARRPMIndexGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RPMIndex" : <integer> } } }
```

- **RADARScanSensitivitySet**

**Description**

Sets the sensitivity value for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARScanSensitivitySet&Sensitivity=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARScanSensitivitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARScanSensitivityGet**

**Description**

Requests the sensitivity value for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARScanSensitivityGet[&DeviceID=<devId>]

**Response**

```
{ "RADARScanSensitivityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensitivity" : <integer> } } }
```

- **RADARScanClutterCutoffSet**

**Description**

Sets the Clutter Cutoff value for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARScanClutterCutoffSet&ClutterCutoff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARScanClutterCutoffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARScanClutterCutoffGet**

**Description**

Requests the Clutter Cutoff value for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARScanClutterCutoffGet[&DeviceID=<devId>]

**Response**

```
{ "RADARScanClutterCutoffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ClutterCutoff" : <integer> } } }
```

- **RADARScanRainFilterSet**

**Description**

Sets the Rain Filter value for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARScanRainFilterSet&RainFilter=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARScanRainFilterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARScanRainFilterGet**

**Description**

Requests the Rain Filter value for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARScanRainFilterGet[&DeviceID=<devId>]

**Response**

```
{ "RADARScanRainFilterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RainFilter" : <integer> } } }
```

- **RADARRangeIndexSet**

**Description**

Sets the Range for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRangeIndexSet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARRangeIndexSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARRangeIndexGet**

**Description**

Requests the Range of the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRangeIndexGet[&DeviceID=<devId>]

**Response**

```
{ "RADARRangeIndexGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Index" : <integer> } } }
```

- **RADARRangeCountGet**

**Description**

Requests the number of available Range for the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRangeCountGet[&DeviceID=<devId>]

**Response**

```
{ "RADARRangeCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **RADARRangeNameGet**

**Description**

Requests the Range name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRangeNameGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARRangeNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **RADARRangeListGet**

**Description**

Requests the Range List in json format

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARRangeListGet[&DeviceID=<devId>]

**Response**

```
{ "RADARRangeListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "List" : <string> } } }
```

- **RADARFrequencyIndexRangeGet**

**Description**

Requests the minimum and maximum index of transmitted pulse frequency of the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARFrequencyIndexRangeGet[&DeviceID=<devId>]

**Response**

```
{ "RADARFrequencyIndexRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Min" : <integer>, "Max" : <integer> } } }
```

- **RadarStandaloneSet**

**Description**

Sets if the Radar is Standalone

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarStandaloneSet&Standalone=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RadarStandaloneSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarStandaloneGet**

**Description**

Requests if the Radar is Standalone

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarStandaloneGet[&DeviceID=<devId>]

**Response**

```
{ "RadarStandaloneGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Standalone" : <integer> } } }
```

- **RadarTargetClassificationEnableSet**

**Description**

Enables or disables the target classification filter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarTargetClassificationEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RadarTargetClassificationEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarTargetClassificationEnableGet**

**Description**

Requests if the target classification feature is enabled or disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarTargetClassificationEnableGet[&DeviceID=<devId>]

**Response**

```
{ "RadarTargetClassificationEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **RadarTargetClassificationFilterEnableSet**

**Description**

Enables or disables de target classification filter

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarTargetClassificationFilterEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RadarTargetClassificationFilterEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarTargetClassificationFilterEnableGet**

**Description**

Requests if the target classification filter feature is enabled or disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarTargetClassificationFilterEnableGet[&DeviceID=<devId>]

**Response**

```
{ "RadarTargetClassificationFilterEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **RADARTargetClassificationFilterConfigurationSet**

**Description**

Sends target classification filter configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARTargetClassificationFilterConfigurationSet&Configuration=<string>[&DeviceID=<devId>]

**Response**

```
{ "RADARTargetClassificationFilterConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARTargetClassificationFilterConfigurationGet**

**Description**

Requests target classification filter configuration

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARTargetClassificationFilterConfigurationGet[&DeviceID=<devId>]

**Response**

```
{ "RADARTargetClassificationFilterConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : "<string>" } } }
```

- **RadarScanSectorSet**

**Description**

Sets parameters of scan sector

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarScanSectorSet&MinimumRange=<float>&MaximumRange=<float>&MinimumAzimuth=<float>&MaximumAzimuth=<float>&ElevationAngle=<float>[&DeviceID=<devId>]

**Response**

```
{ "RadarScanSectorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarScanSectorGet**

**Description**

Requests parameters of scan sector

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarScanSectorGet[&DeviceID=<devId>]

**Response**

```
{ "RadarScanSectorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MinimumRange" : <float>, "MaximumRange" : <float>, "MinimumAzimuth" : <float>, "MaximumAzimuth" : <float>, "ElevationAngle" : <float> } } }
```

- **RadarAreaEditionStart**

**Description**

Starts edition mode to create an exclusion or detection area

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaEditionStart[&DeviceID=<devId>]

**Response**

```
{ "RadarAreaEditionStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarAreaEditionAddPoint**

**Description**

Adds a point to the edition of exclusion or detection area

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaEditionAddPoint&Latitude=<float>&Longitude=<float>[&DeviceID=<devId>]

**Response**

```
{ "RadarAreaEditionAddPoint": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarAreaEditionClose**

**Description**

Closes the edition mode to create an exclusion or detection area and send this new area to the radar

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaEditionClose&AreaType=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RadarAreaEditionClose": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarAreaEditionCancel**

**Description**

Cancels area edition mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaEditionCancel[&DeviceID=<devId>]

**Response**

{ "RadarAreaEditionCancel": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarAreaParamsGet**

**Description**

Returns the parameters of a specific area.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaParamsGet&AreaId=<integer>[&DeviceID=<devId>]

**Response**

{ "RadarAreaParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AreaType" : <integer>, "Enabled" : <integer>, "NumberOfPoints" : <integer> } } }

- **RadarAreaPointGet**

**Description**

Returns the coordinates for the requested point in the area.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaPointGet&AreaId=<integer>&PointId=<integer>[&DeviceID=<devId>]

**Response**

{ "RadarAreaPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude" : <float>, "Longitude" : <float> } } }

- **RadarAreaDelete**

**Description**

Deletes a specific area.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaDelete&AreaId=<integer>[&DeviceID=<devId>]

**Response**

{ "RadarAreaDelete": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarAreaDeleteAll**

**Description**

Deletes all areas.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarAreaDeleteAll[&DeviceID=<devId>]

**Response**

{ "RadarAreaDeleteAll": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarGuardZonesNumberSet**

**Description**

Sets the number of guard zones

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarGuardZonesNumberSet&Number=<integer>[&DeviceID=<devId>]

**Response**

{ "RadarGuardZonesNumberSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarGuardZonesNumberGet**

**Description**

Gets the number of guard zones

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarGuardZonesNumberGet[&DeviceID=<devId>]

**Response**

{ "RadarGuardZonesNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }

- **RadarGuardZoneParameterSet**

**Description**

Sets parameters of specific guard zone

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARGuardZoneParameterSet&Id=<integer>&Enabled=d=<integer>&Type=<integer>&MinRange=<float>&MaxRange=<float>&MinRelAzimuth=<float>&MaxRelAzimuth=<float>[&DeviceID=<devId>]`

**Response**

```
{ "RADARGuardZoneParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARGuardZoneParameterGet**

**Description**

Gets parameters of specific guard zone

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARGuardZoneParameterGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RADARGuardZoneParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "Type" : <integer>, "MinRange" : <float>, "MaxRange" : <float>, "MinRelAzimuth" : <float>, "MaxRelAzimuth" : <float> } } }
```

- **RADARGuardZoneEnabledSet**

**Description**

Sets the Enabled status of specific guard zone

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARGuardZoneEnabledSet&Id=<integer>&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RADARGuardZoneEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARGuardZoneEnabledGet**

**Description**

Gets the Enabled status of specific guard zone

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARGuardZoneEnabledGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RADARGuardZoneEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **RADARAreasNumberGet**

**Description**

Gets the number of areas

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARAreasNumberGet[&DeviceID=<devId>]`

**Response**

```
{ "RADARAreasNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }
```

- **RadarWireDirectionSet**

**Description**

Sets the direction of crossing to trigger an alarm. The reference is from the first point to the latest

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarWireDirectionSet&Id=<integer>&Direction=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarWireDirectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarWireDirectionGet**

**Description**

Gets the direction of crossing to trigger an alarm. The reference is from the first point to the latest

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarWireDirectionGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarWireDirectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Direction" : <integer> } } }
```

- **RadarTrackAlarmAcknowledgeSet**

**Description**

Acknowledges a track's alarm.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackAlarmAcknowledgeSet&TrackId=<integer>&Ack=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackAlarmAcknowledgeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarTrackBFTTagSet**

**Description**

Sets the BFT Tag of specific track

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackBFTTagSet&Id=<integer>&Tag=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackBFTTagSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarTrackBFTTagGet**

**Description**

Gets the BFT Tag of specific track

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackBFTTagGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackBFTTagGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Tag" : <integer> } } }
```

- **RadarTrackHideSet**

**Description**

Sets the hidden status of specific track

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackHideSet&Id=<integer>&Hidden=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackHideSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarTrackHideGet**

**Description**

Gets the hidden status of specific track

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackHideGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackHideGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Hidden" : <integer> } } }
```

- **RadarTrackAliasSet**

**Description**

Sets the alias of specific track

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackAliasSet&Id=<integer>&Alias=<string>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackAliasSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RadarTrackAliasGet**

**Description**

Gets the alias of specific track

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarTrackAliasGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RadarTrackAliasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Alias" : <string> } } }
```

- **RadarListenToSecondaryRadarSet**

**Description**

Enables or disables listening to secondary radar

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarListenToSecondaryRadarSet&Enabled=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "RADARListenToSecondaryRadarSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARListenToSecondaryRadarGet**

**Description**

Gets if enabled or disabled listening to a secondary radar

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARListenToSecondaryRadarGet[&DeviceID=<devId>]
```

**Response**

```
{ "RADARListenToSecondaryRadarGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **RADARSecondaryRadarInfoGet**

**Description**

Gets the secondary radar info by index

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARSecondaryRadarInfoGet&RadarId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "RADARSecondaryRadarInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RadarInfo" : <string> } } }
```

- **RADARSecondaryRadarActiveSet**

**Description**

Sets the secondary radar active

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARSecondaryRadarActiveSet&RadarId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "RADARSecondaryRadarActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARSecondaryRadarActiveGet**

**Description**

Gets the secondary radar active

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARSecondaryRadarActiveGet[&DeviceID=<devId>]
```

**Response**

```
{ "RADARSecondaryRadarActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RadarId" : <integer> } } }
```

- **RADARSecondaryRadarNumberGet**

**Description**

Gets the number of secondary radars connected

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARSecondaryRadarNumberGet[&DeviceID=<devId>]
```

**Response**

```
{ "RADARSecondaryRadarNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }
```

- **RADARTacksFusionEnableSet**

**Description**

Enables the tracks fusion feature

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARTacksFusionEnableSet&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "RADARTacksFusionEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARTacksFusionEnableGet**

**Description**

Request the tracks fusion feature enable status

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARTacksFusionEnableGet[&DeviceID=<devId>]
```

**Response**

```
{ "RADARTracksFusionEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } }
```

- **RADARTracksFusionRadarListSet**

**Description**

Sends the list of radars to fuse the tracks

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARTracksFusionRadarListSet&RadarList=<string>[&DeviceID=<devId>]

**Response**

```
{ "RADARTracksFusionRadarListSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARTracksFusionRadarListGet**

**Description**

Sends the list of radars to fuse the tracks

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARTracksFusionRadarListGet[&DeviceID=<devId>]

**Response**

```
{ "RADARTracksFusionRadarListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "RadarList" : <string> } } }
```

- **RADARTracksFusionRadarListStatusGet**

**Description**

Request the status of the radars list

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARTracksFusionRadarListStatusGet[&DeviceID=<devId>]

**Response**

```
{ "RADARTracksFusionRadarListStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <string> } } }
```

- **RADARSubsystemOn**

**Description**

Turns RADAR subsystem on

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARSubsystemOn[&DeviceID=<devId>]

**Response**

```
{ "RADARSubsystemOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARSubsystemOff**

**Description**

Turns RADAR subsystem off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARSubsystemOff[&DeviceID=<devId>]

**Response**

```
{ "RADARSubsystemOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARSubsystemPowerGet**

**Description**

Requests value of RADAR subsystem power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARSubsystemPowerGet[&DeviceID=<devId>]

**Response**

```
{ "RADARSubsystemPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Power" : <integer> } } }
```

- **RADARSubsystemPowerSet**

**Description**

Sets value of subsystem power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARSubsystemPowerSet&Power=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARSubsystemPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARReset**

**Description**

Resets device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarReset[&DeviceID=<devId>]

**Response**

{ "RadarReset": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarRawCommandSend**

**Description**

Sends a command to the RADAR

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

{ "RadarRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx\_data" : "<string>" } } }

- **RadarRawCommandASCIISend**

**Description**

Sends a command to the RADAR

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarRawCommandASCIISend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

{ "RadarRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx\_data" : "<string>" } } }

- **RadarHealthGet**

**Description**

Requests health state of device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarHealthGet[&DeviceID=<devId>]

**Response**

{ "RadarHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : "<integer>" } } }

- **RadarBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarBITExecute[&DeviceID=<devId>]

**Response**

{ "RadarBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarBITAbort[&DeviceID=<devId>]

**Response**

{ "RadarBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **RadarBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarBITResult[&DeviceID=<devId>]

**Response**

{ "RadarBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT\_Result" : "<integer>" } } }

- **RadarLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RadarLastNMEAGet[&DeviceID=<devId>]

**Response**

{ "RadarLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : "<integer>", "DeviceId" : "<integer>", "Health" : "<integer>", "BIT" : "<integer>", "Timestamp" : "<string>", "Mode" : "<integer>", "Number\_Of\_Tracks" : "<longint>", "Scan\_Sector\_Id" : "<integer>", "Range\_Min" : "<float>", "Range\_Max" : "<float>" } }

```
"Azimuth_Min" : <float>, "Azimuth_Max" : <float>, "Elevation" : <float>, "Threshold_Velocity_Minimum" : <float>, "Threshold_Velocity_Maximum" : <float>, "Frequency_Index" : <integer>, "Frequency" : <float>, "Threshold_Detection" : <integer>, "STC" : <integer>, "RPM_Index" : <integer>, "RPM" : <float>, "Last_Areas_Update" : <string> } } }
```

- **RADARLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARLongBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "RADARLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **RADARDeviceVersionGet**

**Description**

Requests the device version string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARDeviceVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "RADARDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **RADARDeviceInfoGet**

**Description**

Requests the device info string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RADARDeviceInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "RADARDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **RadarWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarWebSettingsSet&Settings=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "RadarWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **RadarWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarWebSettingsGet[&DeviceID=<devId>]
```

**Response**

```
{ "RadarWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **RadarWebSettingsItemSet**

**Description**

Sets the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarWebSettingsItemSet&ItemType=<integer>&ItemID=<integer>&Settings=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "RadarWebSettingsItemSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **RadarWebSettingsItemGet**

**Description**

Requests the most important settings of camera driver

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=RadarWebSettingsItemGet&ItemType=<integer>&ItemID=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "RadarWebSettingsItemGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **RADARIFRemoteSensorSet**

**Description**

Sets the Remote Sensor IP and Port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARIFRemoteSensorSet&IP=<string>&Port=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARIFRemoteSensorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARIFRemoteSensorGet**

**Description**

Gets the Remote Sensor IP and Port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARIFRemoteSensorGet[&DeviceID=<devId>]

**Response**

```
{ "RADARIFRemoteSensorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "IP" : <string>, "Port" : <integer> } } }
```

- **RADARIFActiveSet**

**Description**

Sets the Active state of the RADARIF Operation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARIFActiveSet&Active=<integer>[&DeviceID=<devId>]

**Response**

```
{ "RADARIFActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **RADARIFActiveGet**

**Description**

Gets the Active state of the RADARIF Operation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=RADARIFActiveGet[&DeviceID=<devId>]

**Response**

```
{ "RADARIFActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **AISMMSIGet**

**Description**

Gets AIS Mobile Marine Service Identifier

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISMMSIGet[&DeviceID=<devId>]

**Response**

```
{ "AISMMSIGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MMSI" : <longint> } } }
```

- **AISModeSet**

**Description**

Sets operating mode of AIS

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "AISModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISModeGet**

**Description**

Sets operating mode of AIS

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISModeGet[&DeviceID=<devId>]

**Response**

```
{ "AISModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **AISVelocityThresholdsSet**

**Description**

Sets minimum and maximum velocity thresholds of AIS

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISVelocityThresholdsSet&Min\_Velocity\_Threshold=<float>&Max\_Velocity\_Threshold=<float>[&DeviceID=<devId>]

**Response**

```
{ "AISVelocityThresholdsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISVelocityThresholdsGet**

**Description**

Requests minimum and maximum velocity thresholds of AIS

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISVelocityThresholdsGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISVelocityThresholdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Min_Velocity_Threshold" : <float>, "Max_Velocity_Threshold" : <float> } } }
```

- **AISMaximumRangeSet**

**Description**

Sets AIS maximum range in meters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISMaximumRangeSet&Max_Range=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "AISMaximumRangeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISMaximumRangeGet**

**Description**

Requests AIS maximum range in meters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISMaximumRangeGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISMaximumRangeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Max_Range" : <float> } } }
```

- **AISNumberOfTracksGet**

**Description**

Requests AIS number of tracks

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISNumberOfTracksGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISNumberOfTracksGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Tracks" : <integer> } } }
```

- **AISAreaEditionStart**

**Description**

Starts edition mode to create an exclusion or detection area

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaEditionStart[&DeviceID=<devId>]
```

**Response**

```
{ "AISAreaEditionStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISAreaEditionAddPoint**

**Description**

Adds a point to the edition of exclusion or detection area

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaEditionAddPoint&Latitude=<float>&Longitude=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "AISAreaEditionAddPoint": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISAreaEditionClose**

**Description**

Closes the edition mode to create an exclusion or detection area and send this new area to the AIS

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaEditionClose&AreaType=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISAreaEditionClose": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISAreaEditionCancel**

**Description**

Cancels area edition mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaEditionCancel[&DeviceID=<devId>]`

**Response**

```
{ "AISAreaEditionCancel": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISAreaParamsGet**

**Description**

Returns the parameters of a specific area.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaParamsGet&AreaId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "AISAreaParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AreaType" : <integer>, "Enabled" : <integer>, "NumberOfPoints" : <integer> } } }
```

- **AISAreaPointGet**

**Description**

Returns the coordinates for the requested point in the area.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaPointGet&AreaId=<integer>&PointId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "AISAreaPointGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude" : <float>, "Longitude" : <float> } } }
```

- **AISAreaDelete**

**Description**

Deletes a specific area.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaDelete&AreaId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "AISAreaDelete": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISAreaDeleteAll**

**Description**

Deletes all areas.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISAreaDeleteAll[&DeviceID=<devId>]`

**Response**

```
{ "AISAreaDeleteAll": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISGuardZonesNumberSet**

**Description**

Sets the number of guard zones

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISGuardZonesNumberSet&Number=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "AISGuardZonesNumberSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISGuardZonesNumberGet**

**Description**

Gets the number of guard zones

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISGuardZonesNumberGet[&DeviceID=<devId>]`

**Response**

```
{ "AISGuardZonesNumberGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Number" : <integer> } } }
```

- **AISGuardZoneParameterSet**

**Description**

Sets parameters of specific guard zone

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISGuardZoneParameterSet&Id=<integer>&Enabled=<integer>&Type=<integer>&MinRange=<float>&MaxRange=<float>&MinRelAzimuth=<float>&MaxRelAzimuth=<float>[&DeviceID=<devId>]`

**Response**

```
{ "AISGuardZoneParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISGuardZoneParameterGet**

**Description**

Gets parameters of specific guard zone

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISGuardZoneParameterGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISGuardZoneParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer>, "Type" : <integer>, "MinRange" : <float>, "MaxRange" : <float>, "MinRelAzimuth" : <float>, "MaxRelAzimuth" : <float> } } }
```

- **AISGuardZoneEnabledSet**

**Description**

Sets the Enabled status of specific guard zone

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISGuardZoneEnabledSet&Id=<integer>&Enabled=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISGuardZoneEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISGuardZoneEnabledGet**

**Description**

Gets the Enabled status of specific guard zone

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISGuardZoneEnabledGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISGuardZoneEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **AISTrackAlarmAcknowledgeSet**

**Description**

Acknowledges a track's alarm.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISTrackAlarmAcknowledgeSet&TrackId=<integer>&Ack=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISTrackAlarmAcknowledgeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISTrackBFTTagSet**

**Description**

Sets the BFT Tag of specific track

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISTrackBFTTagSet&Id=<integer>&Tag=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISTrackBFTTagSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISTrackBFTTagGet**

**Description**

Gets the BFT Tag of specific track

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISTrackBFTTagGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISTrackBFTTagGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Tag" : <integer> } } }
```

- **AISTrackHideSet**

**Description**

Sets the hidden status of specific track

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISTrackHideSet&Id=<integer>&Hidden=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "AISTrackHideSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISTrackHideGet**

**Description**

Gets the hidden status of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackHideGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackHideGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Hidden" : <integer> } } }
```

- **AISTrackAliasSet**

**Description**

Sets the alias of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackAliasSet&Id=<integer>&Alias=<string>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackAliasSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISTrackAliasGet**

**Description**

Gets the alias of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackAliasGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackAliasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Alias" : <string> } } }
```

- **AISTrackLabelSet**

**Description**

Sets the label of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackLabelSet&Id=<integer>&Label=<string>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackLabelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISTrackLabelGet**

**Description**

Gets the label of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackLabelGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackLabelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Label" : <string> } } }
```

- **AISTrackTypeGet**

**Description**

Gets the type of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackTypeGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer> } } }
```

- **AISTrackMMSSIGet**

**Description**

Gets the MMSI of specific track

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISTrackMMSSIGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "AISTrackMMSSIGet": { "Return Code" : "<code>", "Return String" : "<string>", { "MMSI" : <longint> } } }
```

- **AISRawCommandSend**

**Description**

Sends a command to the AIS

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=AISRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "AISRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **AISRawCommandASCIISend**

**Description**

Sends a command to the AIS

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "AISRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **AISHealthGet**

**Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **AISBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISBITExecute[&DeviceID=<devId>]
```

**Response**

```
{ "AISBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISBITAbort[&DeviceID=<devId>]
```

**Response**

```
{ "AISBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **AISBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "AISBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **AISLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISLastNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "MMSI" : <longint>, "Mode" : <integer>, "Number_Of_Tracks" : <longint>, "Range_Max" : <float>, "Threshold_Velocity_Minimum" : <float>, "Threshold_Velocity_Maximum" : <float>, "Last_Areas_Update" : <string> } } }
```

- **AISLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISLongBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "AISLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **AISDeviceVersionGet**

**Description**

Requests the device version string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISDeviceVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **AISDeviceInfoGet**

**Description**

Requests the device info string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=AISDeviceInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "AISDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **WIDEYEVideoCorrectionSet**

**Description**

Sets the Video Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEVideoCorrectionSet&Index=<integer>&Offset_Correction_X=<integer>&Offset_Correction_Y=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "WIDEYEVideoCorrectionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEVideoCorrectionGet**

**Description**

Gets the Video Correction

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEVideoCorrectionGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "WIDEYEVideoCorrectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Offset_Correction_X" : <integer>, "Offset_Correction_Y" : <integer> } } }
```

- **WIDEYEVideoFOVSet**

**Description**

Sets the Field Of View

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEVideoFOVSet&FOV=<float>[&DeviceID=<devId>]
```

**Response**

```
{ "WIDEYEVideoFOVSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEVideoFOVGet**

**Description**

Gets the Field Of View

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEVideoFOVGet[&DeviceID=<devId>]
```

**Response**

```
{ "WIDEYEVideoFOVGet": { "Return Code" : "<code>", "Return String" : "<string>", { "FOV" : <float> } } }
```

- **WIDEYEVideoParamsGet**

**Description**

Gets Video Parameters

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEVideoParamsGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "WIDEYEVideoParamsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Cols" : <integer>, "Rows" : <integer>, "ipaddress" : <string>, "port" : <integer> } } }
```

- **WIDEYEStatusGet**

**Description**

Gets the Status

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEStatusGet[&DeviceID=<devId>]
```

**Response**

```
{ "WIDEYEStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **WIDEYEOrientationGet**

**Description**

Gets the Orientation

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>", { "Azimuth" : <float>, "Elevation" : <float>, "Status" : <integer> } } }
```

- **WIDEYEYEResponse**

**Description**

Gets the Position

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse[&DeviceID=<devId>]

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>", { "UTM_Zone_Number" : <integer>, "UTM_Zone_Letter" : <integer>, "X_UTM_Coordinate" : <float>, "Y_UTM_Coordinate" : <float>, "Height" : <float> } } }
```

- **WIDEYEYEResponse**

**Description**

Gets the AGC value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse[&DeviceID=<devId>]

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEYEResponse**

**Description**

Sets the AGC value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse[&DeviceID=<devId>]

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>", { "AGC" : <integer> } } }
```

- **WIDEYEYEResponse**

**Description**

Sets the AGC value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse[&DeviceID=<devId>]

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEYEResponse**

**Description**

Gets the AGC value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse[&DeviceID=<devId>]

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **WIDEYEYEResponse**

**Description**

Sets the Sensor Host Id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=WIDEYEYEResponse[&DeviceID=<devId>]

**Response**

```
{ "WIDEYEYEResponse": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEYEResponse**

**Description**

Gets the Sensor Host Id

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYEColocatedSensorHostIdGet[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYEColocatedSensorHostIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "HostId" : "<string>" } } }
```

- **WIDEYEYSaveSettings**

**Description**

Saves the settings

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYSaveSettings[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYSaveSettings": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEYEHHealthGet**

**Description**

Get the Health

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYEHHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYEHHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **WIDEYEYEBITExecute**

**Description**

Executes the BIT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYEBITExecute[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYEBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEYEBITAbort**

**Description**

Aborts the BIT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYEBITAbort[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYEBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WIDEYEYEBITResult**

**Description**

Gets the BIT Result

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYEBITResult[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYEBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **WIDEYEYELastNMEAGet**

**Description**

Gets the Last Sent NMEA

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYELastNMEAGet[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYELastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string> } } }
```

- **WIDEYEYELongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WIDEYEYELongBITResult[&DeviceID=<devId>]`

**Response**

```
{ "WIDEYEYELongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **GNDSSStateGet**

**Description**

Requests state of IO sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSStateGet[&DeviceID=<devId>]`

**Response**

```
{ "GNDSStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **GNDSAcknowledgeSend**

**Description**

Acknowledges an input channel

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSAcknowledgeSend&Input=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GNDSAcknowledgeSend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSResetSend**

**Description**

Resets input state

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSResetSend&Input=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GNDSResetSend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSTriggerActionSend**

**Description**

Triggers an action in given input

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSTriggerActionSend&Input=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GNDSTriggerActionSend": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSPortStateGet**

**Description**

Requests state of a port of an IO sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSPortStateGet[&DeviceID=<devId>]`

**Response**

```
{ "GNDSPortStateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **GNDSParametersGet**

**Description**

Requests state of a port of an IO sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSParametersGet&Id=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GNDSParametersGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer>, "Range" : <float>, "Heading" : <float> } } }
```

- **GNDSPortStateSet**

**Description**

Sets state of a port on an IO sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSPortStateSet&State=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GNDSPortStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSOutputStateSet**

**Description**

Sets state of an output on an IO sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSOutputStateSet&Output=<integer>&State=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GNDSOutputStateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSPortConfigurationSet**

**Description**

Sets configuration af an IO sensor port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSPortConfigurationSet&Configuration=<integer>[&DeviceID=<devId>]

**Response**

```
{ "GNDSPortConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSPortConfigurationGet**

**Description**

Requests configuration af an IO sensor port

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSPortConfigurationGet[&DeviceID=<devId>]

**Response**

```
{ "GNDSPortConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : <integer> } } }
```

- **GNDSIOConfigurationSet**

**Description**

Sets configuration of an IO sensor IO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSIOConfigurationSet&io=<integer>&Configuration=<integer>[&DeviceID=<devId>]

**Response**

```
{ "GNDSIOConfigurationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSIOConfigurationGet**

**Description**

Requests configuration of an IO sensor IO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSIOConfigurationGet&io=<integer>[&DeviceID=<devId>]

**Response**

```
{ "GNDSIOConfigurationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Configuration" : <integer> } } }
```

- **GNDSGeolocationSet**

**Description**

Sets the location of a sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSGeolocationSet&Id=<integer>&Latitude=<double>&Longitude=<double>&Height=<float>[&DeviceID=<devId>]

**Response**

```
{ "GNDSGeolocationSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSGeolocationGet**

**Description**

Requests configuration of an IO sensor IO

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSGeolocationGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "GNDSGeolocationGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Latitude" : <double>, "Longitude" : <double>, "Height" : <float> } } }
```

- **GNDSRawCommandSend**

**Description**

Sends a command to the GNDS

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

```
{ "GNDSRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GNDSRawCommandASCIISend**

**Description**

Sends a command to the GNDS

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GNDSHealthGet**

**Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **GNDSBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSBITExecute[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSBITAbort[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GNDSBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **GNDSLasteNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSLasteNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSLasteNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "Deviceld" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string> } } }
```

- **GNDSLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSLongBITResult[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **GNDSDeviceVersionGet**

**Description**

Requests the device version string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GNDSDeviceVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "GNDSDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **GNDSDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GNDSDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "GNDSDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **ONBOARDRelaySet**

**Description**

Sets the state of a relay

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDRelaySet&Index=<integer>&State=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDRelaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDRelayGet**

**Description**

Requests the current state of a relay

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDRelayGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDRelayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **ONBOARDFanSet**

**Description**

Sets the state of a fan

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDFanSet&Index=<integer>&State=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDFanSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDFanGet**

**Description**

Requests the current state of a fan

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDFanGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDFanGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **ONBOARDHeaterSet**

**Description**

Sets the state of a heater

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDHeaterSet&Index=<integer>&State=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDHeaterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDHeaterGet**

**Description**

Requests the current state of a heater

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDHeaterGet&Index=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDHeaterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "State" : <integer> } } }
```

- **ONBOARDLifeTimeReset**

**Description**

Resets the life time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDLifeTimeReset[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDLifeTimeReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDLifeTimeGet**

**Description**

Requests the life time of the system

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDLifeTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDLifeTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <longint> } } }
```

- **ONBOARDUpTimeReset**

**Description**

Resets the up time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDUpTimeReset[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDUpTimeReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDUpTimeGet**

**Description**

Requests the time since last power cycle

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDUpTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDUpTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <longint> } } }
```

- **ONBOARDPowerCyclesCountReset**

**Description**

Resets the count of power cycles

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDPowerCyclesCountReset[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDPowerCyclesCountReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDPowerCyclesCountGet**

**Description**

Requests the number of power cycles

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDPowerCyclesCountGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDPowerCyclesCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <longint> } } }
```

- **ONBOARDDTemperatureGet**

**Description**

Requests the temperature of the board

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDDTemperatureGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDDTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **ONBOARDDTemperatureCPUGet**

**Description**

Requests the temperature of the controller

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDDTemperatureCPUGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDDTemperatureCPUGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **ONBOARDOSDGlobalVisibleSet**

**Description**

Sets the global visibility state for OSD

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDGlobalVisibleSet&Index=<integer>&Visible=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDGlobalVisibleSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDGlobalVisibleGet**

**Description**

Requests the global visibility state for OSD

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDGlobalVisibleGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDGlobalVisibleGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Visible" : <integer> } } }
```

- **ONBOARDOSDLogoVisibleSet**

**Description**

Sets the visibility state for logo

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDLogoVisibleSet&Index=<integer>&Visible=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDLogoVisibleSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDLogoVisibleGet**

**Description**

Requests the visibility state for logo

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDLogoVisibleGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDLogoVisibleGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Visible" : <integer> } } }
```

- **ONBOARDOSDCrosshairVisibleSet**

**Description**

Sets the visibility state for crosshair

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDCrosshairVisibleSet&Index=<integer>&Visible=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDCrosshairVisibleSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDCrosshairVisibleGet**

**Description**

Requests the visibility state for crosshair

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDCrosshairVisibleGet&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDCrosshairVisibleGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Visible" : <integer> } } }
```

- **ONBOARDOSDStringDisplaySet**

**Description**

Displays an OSD text

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDStringDisplaySet&Index=<integer>&Col=<integer>&Row=<integer>&Len=<integer>&Text=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDStringDisplaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDCharacterDisplayGet**

**Description**

Requests the character code in a specific location of OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDCharacterDisplayGet&Index=<integer>&Col=<integer>&Row=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDCharacterDisplayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Character" : <integer> } } }
```

- **ONBOARDOSDRenderModeSet**

**Description**

Sets the render mode for OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDRenderModeSet&Index=<integer>&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDRenderModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDRenderModeGet**

**Description**

Requests the render mode for OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDRenderModeGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDRenderModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **ONBOARDOSDVideoFormatSet**

**Description**

Sets the video format for OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDVideoFormatSet&Index=<integer>&Format=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDVideoFormatSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDVideoFormatGet**

**Description**

Requests the video format for OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDVideoFormatGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDVideoFormatGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Format" : <integer> } } }
```

- **ONBOARDOSDClear**

**Description**

Clears the OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDClear&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDClear": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDInitialize**

**Description**

Initializes the OSD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDInitialize&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDInitialize": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDLowLevelRegisterSet**

**Description**

Sets a new value for a low level field in OSD device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDLowLevelRegisterSet&Index=<integer>&Field=<integer>&Value=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDLowLevelRegisterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDLowLevelRegisterGet**

**Description**

Gets the current value for a low level field in OSD device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDLowLevelRegisterGet&Index=<integer>&Field=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDLowLevelRegisterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <integer> } } }
```

- **ONBOARDOSDLogoPositionSet**

**Description**

Sets the logo position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDLogoPositionSet&Index=<integer>&PositionX=<integer>&PositionY=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDLogoPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDLogoPositionGet**

**Description**

Requests the logo position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDLogoPositionGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDLogoPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PositionX" : <integer>, "PositionY" : <integer> } } }
```

- **ONBOARDOSDCrosshairPositionSet**

**Description**

Sets the Crosshair position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDCrosshairPositionSet&Index=<integer>&PositionX=<integer>&PositionY=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDCrosshairPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDCrosshairPositionGet**

**Description**

Requests the Crosshair position

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDCrosshairPositionGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDCrosshairPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "PositionX" : <integer>, "PositionY" : <integer> } } }
```

- **ONBOARDOSDSplashOnOffSet**

**Description**

Enables/Disables the OSD Splash screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDSplashOnOffSet&Index=<integer>&OnOff=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDSplashOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDSplashOnOffGet**

**Description**

Requests the status of OSD Splash screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDSplashOnOffGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDSplashOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **ONBOARDOSDSplashTimeSet**

**Description**

Sets time interval for OSD Splash screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDSplashTimeSet&Index=<integer>&Time=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDSplashTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDSplashTimeGet**

**Description**

Requests the time interval of OSD Splash screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDSplashTimeGet&Index=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDSplashTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <integer> } } }
```

- **ONBOARDOSDSplashTextSet**

**Description**

Sets custom text line OSD Splash screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDSplashTextSet&Index=<integer>&Line=<integer>&Text=<string>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDSplashTextSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDSplashTextGet**

**Description**

Requests custom text line of OSD Splash screen

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDSplashTextGet&Index=<integer>&Line=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDSplashTextGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Text" : <string> } } }
```

- **ONBOARDOSDVersionCFSet**

**Description**

Sets compact flash version

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDVersionCFSet&Minor=<integer>&Major=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDVersionCFSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDOSDVersionCFGGet**

**Description**

Requests Compact Flash version

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDVersionCFGGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDVersionCFGGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Minor" : <integer>, "Major" : <integer> } } }
```

- **ONBOARDOSDVersionFWSet**

**Description**

Sets Firmware version

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDVersionFWSet&Minor=<integer>&Major=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDOSDVersionFWSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• ONBOARDOSDVersionFWGet****Description**

Requests Firmware version

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDVersionFWGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDVersionFWGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Minor" : <integer>, "Major" : <integer> } } }
```

**• ONBOARDOSDNetworkInterfaceSet****Description**

Sets IP Address/Mask for Netowrk Interface

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDNetworkInterfaceSet&Index=<integer>&Select=<integer>&Address=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDNetworkInterfaceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• ONBOARDOSDNetworkInterfaceGet****Description**

Requests IP Address/Mask for Network Interface

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDOSDNetworkInterfaceGet&Index=<integer>&Select=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDOSDNetworkInterfaceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Address" : <string> } } }
```

**• ONBOARDVideoMuxOutputSet****Description**

Assigns a video input to a mux output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDVideoMuxOutputSet&Output=<integer>&Input=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDVideoMuxOutputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• ONBOARDVideoMuxOutputGet****Description**

Requests the input index assigned to a mux output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDVideoMuxOutputGet&Output=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDVideoMuxOutputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Input" : <integer> } } }
```

**• ONBOARDVideoMuxGlobalOutputSet****Description**

Sets the global video mux configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDVideoMuxGlobalOutputSet&Output1=<integer>&Output2=<integer>&Output3=<integer>&Output4=<integer>&Output5=<integer>&Output6=<integer>&Output7=<integer>&Output8=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDVideoMuxGlobalOutputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

**• ONBOARDVideoMuxGlobalOutputGet****Description**

Requests the global video mux configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDVideoMuxGlobalOutputGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDVideoMuxGlobalOutputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Output1" : <integer>, "Output2" : <integer>, "Output3" : <integer>, "Output4" : <integer>, "Output5" : <integer>, "Output6" : <integer>, "Output7" : <integer>, "Output8" : <integer> } } }
```

- **ONBOARDVideoMuxPresetSet**

**Description**

Sets a defined preset for video mux configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDVideoMuxPresetSet&Preset=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDVideoMuxPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDVideoMuxPresetGet**

**Description**

Sets a defined preset for video mux configuration

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDVideoMuxPresetGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDVideoMuxPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Preset" : <integer> } } }
```

- **ONBOARDLevelValuesGet**

**Description**

Requests the angle values from Level device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDLevelValuesGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDLevelValuesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer>, "Z" : <integer>, "DQ" : <integer> } } }
```

- **ONBOARDAccelerationValuesGet**

**Description**

Requests the acceleration values from Level device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDAccelerationValuesGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDAccelerationValuesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer>, "Z" : <integer> } } }
```

- **ONBOARDMagnetometerValuesGet**

**Description**

Requests the magnetic field values from Level device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDMagnetometerValuesGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDMagnetometerValuesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "X" : <integer>, "Y" : <integer>, "Z" : <integer> } } }
```

- **ONBOARDLevelFirmwareVersionGet**

**Description**

Requests the Firmware Version from the Leveling Device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDLevelFirmwareVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDLevelFirmwareVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Version" : <string> } } }
```

- **ONBOARDRawCommandSend**

**Description**

Sends a command to the ONBOARD

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "ONBOARDRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **ONBOARDRawCommandASCIISend**

**Description**

Sends a command to the ONBOARD

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **ONBOARDHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **ONBOARDBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDBITExecute[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDBITAbort[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDBITResult[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT_Result" : <integer> } } }
```

- **ONBOARDLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDLastNMEAGet[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "Deviceld" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "Temperature" : <float>, "TemperatureCPU" : <float>, "Humidity" : <float>, "Pressure" : <float>, "LifeTime" : <integer>, "UpTime" : <integer>, "CommandCount" : <integer>, "BootCount" : <integer>, "HeaterActive" : <integer>, "HeaterOverride" : <integer>, "FanActive" : <integer>, "FanSpeed" : <integer>, "Name" : <string>, "Model" : <string>, "VersionSW" : <string>, "VersionHW" : <string>, "SerialNumber" : <string>, "PartNumber" : <string>, "ManufacturedDate" : <string>, "Cassette" : <string>, "Voltage1" : <float>, "Voltage2" : <float> } } }
```

- **ONBOARDLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ONBOARDLongBITResult[&DeviceID=<devId>]`

**Response**

```
{ "ONBOARDLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **ONBOARDDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDDeviceVersionGet[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **ONBOARDDeviceInfoGet**

**Description**

Requests the device info string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDDeviceInfoGet[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **ONBOARDExpertModeSet**

**Description**

Sets the configuration for the Expert Communications Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDExpertModeSet&OnOff=<integer>&Type=<integer>&ETX=<integer>&ERX=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDExpertModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ONBOARDExpertModeGet**

**Description**

Requests the configuration for the Expert Communications Mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDExpertModeGet[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDExpertModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer>, "Type" : <integer>, "ETX" : <integer>, "ERX" : <integer> } } }
```

- **ONBOARDExpertDataWrite**

**Description**

In Expert Mode, transmits raw data and waits for the answer

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDExpertDataWrite&CountTx=<integer>&Timeo utRx=<integer>&DataTx=<string>[&DeviceID=<devId>]

**Response**

```
{ "ONBOARDExpertDataWrite": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **ONBOARDExpertDataRead**

**Description**

In Expert Mode, reads raw data from the device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ONBOARDExpertDataRead&TimeoutRx=<integer>[&De viceID=<devId>]

**Response**

```
{ "ONBOARDExpertDataRead": { "Return Code" : "<code>", "Return String" : "<string>", { "CountRx" : <integer>, "DataRx" : <string> } } }
```

- **LIGHTOnOffSet**

**Description**

Sets the state of the light

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTOnOffSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "LIGHTOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTOnOffGet**

**Description**

Requests the current state of the light

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTOnOffGet[&DeviceID=<devId>]

**Response**

```
{ "LIGHTOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **LIGHTPowerLevelSet**

**Description**

Sets the power level value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTPowerLevelSet&Level=<integer>[&DeviceID=<devId>]

**Response**

```
{ "LIGHTPowerLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTPowerLevelGet**

**Description**

Requests the current power level value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTPowerLevelGet[&DeviceID=<devId>]

**Response**

```
{ "LIGHTPowerLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <integer> } } }
```

- **LIGHTOnOffToggle**

**Description**

Toggles power on/off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTOnOffToggle[&DeviceID=<devId>]

**Response**

```
{ "LIGHTOnOffToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTPowerLevelToggle**

**Description**

Toggles power level value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTPowerLevelToggle[&DeviceID=<devId>]

**Response**

```
{ "LIGHTPowerLevelToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTModeSet**

**Description**

Sets light mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "LIGHTModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTModeGet**

**Description**

Gets light mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTModeGet[&DeviceID=<devId>]

**Response**

```
{ "LIGHTModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **LIGHTLaserIlluminatorSet**

**Description**

Sets the state of the laser illuminator

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTLaserIlluminatorSet&OnOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "LIGHTLaserIlluminatorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTLaserIlluminatorGet**

**Description**

Requests the current state of the laser illuminator

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTLaserIlluminatorGet[&DeviceID=<devId>]  
**Response**  
{ "LIGHTLaserIlluminatorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }

- **LIGHTLaserIlluminatorToggle**

**Description**

Toggles laser illuminator

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTLaserIlluminatorToggle[&DeviceID=<devId>]  
**Response**

{ "LIGHTLaserIlluminatorToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTResetSet**

**Description**

Resets light device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTResetSet[&DeviceID=<devId>]

**Response**

{ "LIGHTResetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTWatchdogSet**

**Description**

Resets watchdog

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTWatchdogSet[&DeviceID=<devId>]

**Response**

{ "LIGHTWatchdogSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTModeToggle**

**Description**

Toggles mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTModeToggle[&DeviceID=<devId>]

**Response**

{ "LIGHTModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTDefaultsSet**

**Description**

Sets the current settings as defaults

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTDefaultsSet[&DeviceID=<devId>]

**Response**

{ "LIGHTDefaultsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTDefaultsRestore**

**Description**

restores default settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTDefaultsRestore[&DeviceID=<devId>]

**Response**

{ "LIGHTDefaultsRestore": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTZoomPositionSet**

**Description**

Sets the zoom value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTZoomPositionSet&Zoom=<integer>[&DeviceID=<devId>]

**Response**

{ "LIGHTZoomPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **LIGHTZoomPositionGet**

**Description**

Requests the current zoom value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=LIGHTZoomPositionGet[&DeviceID=<devId>]

**Response**

```
{ "LIGHTZoomPositionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Zoom" : <integer> } } }
```

- **LIGHTZoomIncrement**

**Description**

Increments/Decrements the zoom value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTZoomIncrement&Increment=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTZoomIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTZoomRateIncrement**

**Description**

Increments/Decrements the zoom rate

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTZoomRateIncrement&Increment=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTZoomRateIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTZoomInitialPositionSet**

**Description**

Sets current zoom value as initial position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTZoomInitialPositionSet[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTZoomInitialPositionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTZoomInitialPositionGoTo**

**Description**

Commands the zoom to the initial zoom position

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTZoomInitialPositionGoTo[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTZoomInitialPositionGoTo": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTStrobeRateSet**

**Description**

Sets the strobe rate value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeRateSet&Rate=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTStrobeRateSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTStrobeRateGet**

**Description**

Requests the current strobe rate value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeRateGet[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTStrobeRateGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Rate" : <integer> } } }
```

- **LIGHTStrobeIntensitySet**

**Description**

Sets the strobe intensity value

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeIntensitySet&Intensity=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTStrobeIntensitySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTStrobeIntensityGet**

**Description**

Requests the current strobe intensity value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeIntensityGet[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTStrobeIntensityGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Intensity" : <integer> } } }
```

- **LIGHTStrobeFrequencySet**

**Description**

Sets the strobe frequency value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeFrequencySet&Frequency=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTStrobeFrequencySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTStrobeFrequencyGet**

**Description**

Requests the current strobe frequency value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeFrequencyGet[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTStrobeFrequencyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Frequency" : <integer> } } }
```

- **LIGHTStrobeFrequencyIncrement**

**Description**

Increments/Decrements the strobe frequency value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeFrequencyIncrement&Increment=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTStrobeFrequencyIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTStrobeDurationIncrement**

**Description**

Increments/Decrements the strobe duration value

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeDurationIncrement&Increment=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTStrobeDurationIncrement": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTStrobeStop**

**Description**

Start the SOS signal

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTStrobeStop[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTStrobeStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTSOSStart**

**Description**

Stops the SOS signal

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTSOSStart[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTSOSStart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTSOSStop**

**Description**

Stops the SOS signal

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTSOSStop[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTSOSStop": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **LIGHTRawCommandSend**

**Description**

Sends a command to the LIGHT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTRawCommandSend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

`{ "LIGHTRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", "rx_data" : "<string>" } }`

- **LIGHTRawCommandASCIISend**

**Description**

Sends a command to the LIGHT

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTRawCommandASCIISend&cmd_timeout=<integer>&rx_expected=<integer>&tx_data=<string>[&DeviceID=<devId>]`

**Response**

`{ "LIGHTRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", "rx_data" : "<string>" } }`

- **LIGHTHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTHealthGet[&DeviceID=<devId>]`

**Response**

`{ "LIGHTHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", "Health" : "<integer>" } }`

- **LIGHTBITExecute**

**Description**

Starts execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTBITExecute[&DeviceID=<devId>]`

**Response**

`{ "LIGHTBITExecute": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **LIGHTBITAbort**

**Description**

Stops execution of BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTBITAbort[&DeviceID=<devId>]`

**Response**

`{ "LIGHTBITAbort": { "Return Code" : "<code>", "Return String" : "<string>" } }`

- **LIGHTBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTBITResult[&DeviceID=<devId>]`

**Response**

`{ "LIGHTBITResult": { "Return Code" : "<code>", "Return String" : "<string>", "BIT_Result" : "<integer>" } }`

- **LIGHTLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTLastNMEAGet[&DeviceID=<devId>]`

**Response**

`{ "LIGHTLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", "DeviceType" : "<integer>", "DeviceId" : "<integer>", "Health" : "<integer>", "BIT" : "<integer>", "Timestamp" : "<string>", "OnOff" : "<integer>", "PowerLevel" : "<integer>", "Zoom" : "<integer>", "StrobeRate" : "<integer>", "StrobeIntensity" : "<integer>", "Mode" : "<integer>", "StrobeFrequency" : "<integer>" } }`

- **LIGHTLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTLongBITResult[&DeviceID=<devId>]`

**Response**

```
{ "LIGHTLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }
```

- **LIGHTDeviceVersionGet**

**Description**

Requests the device version string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTDeviceVersionGet[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **LIGHTDeviceInfoGet**

**Description**

Requests the device info string

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=LIGHTDeviceInfoGet[&DeviceID=<devId>]
```

**Response**

```
{ "LIGHTDeviceInfoGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx_data" : <string> } } }
```

- **WSGUIStatus**

**Description**

Internal Use Only

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSGUIStatus&Status=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "WSGUIStatus": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WSGUIUserAction**

**Description**

Internal Use Only

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSGUIUserAction&Action=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "WSGUIUserAction": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WSGUIHealthGet**

**Description**

Requests health state of device

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSGUIHealthGet[&DeviceID=<devId>]
```

**Response**

```
{ "WSGUIHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **WSGUILastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSGUILastNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "WSGUILastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "Deviceld" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "LastChange" : <string>, "WatchdogInterval" : <integer>, "UserName" : <string>, "UserGroup" : <string>, "Licenses" : <string>, "Version" : <string>, "ScreenRes" : <string>, "UserActionTS" : <string>, "UserAction" : <string> } } }
```

- **WSMAPStatus**

**Description**

Internal Use Only

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSMAPStatus&Status=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "WSMAPStatus": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WSMAPTriggerAlarm**

**Description**

Internal Use Only

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSMAPTriggerAlarm&Id=<integer>&Alarm=<string>[&DeviceID=<devId>]`

**Response**

```
{ "WSMAPTriggerAlarm": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WSMAPHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSMAPHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "WSMAPHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **WSVWALLStatus**

**Description**

Internal Use Only

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSVWALLStatus&Status=<string>[&DeviceID=<devId>]`

**Response**

```
{ "WSVWALLStatus": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **WSVWALLHealthGet**

**Description**

Requests health state of device

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=WSVWALLHealthGet[&DeviceID=<devId>]`

**Response**

```
{ "WSVWALLHealthGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Health" : <integer> } } }
```

- **INTERFACEJoystickAircraftModeSet**

**Description**

Sets the Aircraft mode for Joystick

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=INTERFACEJoystickAircraftModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "INTERFACEJoystickAircraftModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEJoystickAircraftModeGet**

**Description**

Requests the Aircraft mode for Joystick

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=INTERFACEJoystickAircraftModeGet[&DeviceID=<devId>]`

**Response**

```
{ "INTERFACEJoystickAircraftModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **INTERFACEJoystickTwistModeSet**

**Description**

Sets the Twist mode for Joystick

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=INTERFACEJoystickTwistModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "INTERFACEJoystickTwistModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEJoystickTwistModeGet**

**Description**

Requests the Twist mode for Joystick

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=INTERFACEJoystickTwistModeGet[&DeviceID=<devId>]`

**Response**

```
{ "INTERFACEJoystickTwistModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **INTERFACEJoystickUserProgrammableButtonSet**

**Description**

Sets the action for User Programmable Button

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEJoystickUserProgrammableButtonSet&Id=<integer>&Action=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEJoystickUserProgrammableButtonSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEJoystickUserProgrammableButtonGet**

**Description**

Requests the action for User Programmable Button

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEJoystickUserProgrammableButtonGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEJoystickUserProgrammableButtonGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Action" : <integer> } } }
```

- **INTERFACEAuxCommandActionSet**

**Description**

Sets the Auxiliary command action and name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEAuxCommandActionSet&Id=<integer>&Action=<integer>&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEAuxCommandActionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEAuxCommandActionGet**

**Description**

Returns the Auxiliary command action and name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEAuxCommandActionGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEAuxCommandActionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Action" : <integer>, "Name" : <string> } } }
```

- **INTERFACEAuxCommandCountSet**

**Description**

Sets the number of Auxiliary commands

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEAuxCommandCountSet&Count=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEAuxCommandCountSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEAuxCommandCountGet**

**Description**

Returns the number of Auxiliary commands

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEAuxCommandCountGet[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEAuxCommandCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **INTERFACEOutputActionSet**

**Description**

Sets the virtual Output actions

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEOutputActionSet&Id=<integer>&ActionOn=<integer>&ActionOff=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEOutputActionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEOutputActionGet**

**Description**

Returns the virtual Output actions

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEOutputActionGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEOutputActionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ActionOn" : <integer>, "ActionOff" : <integer> } } }
```

- **INTERFACEOutputActionCountSet**

**Description**

Sets the number of virtual outputs

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEOutputActionCountSet&Count=<integer>[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEOutputActionCountSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEOutputActionCountGet**

**Description**

Returns the number of virtual outputs

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEOutputActionCountGet[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEOutputActionCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **INTERFACESubsystemOn**

**Description**

Commands the system to Power On

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACESubsystemOn[&DeviceID=<devId>]

**Response**

```
{ "INTERFACESubsystemOn": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACESubsystemOff**

**Description**

Commands the system to Power Off

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACESubsystemOff[&DeviceID=<devId>]

**Response**

```
{ "INTERFACESubsystemOff": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **INTERFACEPowerGet**

**Description**

Requests the power status of the system

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=INTERFACEPowerGet[&DeviceID=<devId>]

**Response**

```
{ "INTERFACEPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Power" : <integer> } } }
```

- **ALMGRHighPrioritySet**

**Description**

Sets high priority for a specific alarm

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRHighPrioritySet&DeviceType=<integer>&DeviceId=<integer>&ChannelId=<integer>&ServerPort=<integer>&ServerIP=<string>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRHighPrioritySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRestart**

**Description**

There are changes in the configuration file and restart alarm manager is required

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRestart[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRestart": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleCountGet**

**Description**

Returns the number of rules

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleCountGet[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **ALMGRRuleAdd**

**Description**

Adds a new rule

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleAdd[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleRemove**

**Description**

Removes a rule

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleRemove&Index=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRReceptionModeSet**

**Description**

Changes the reception mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRReceptionModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRReceptionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRReceptionModeGet**

**Description**

Returns the reception mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRReceptionModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRReceptionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **ALMGRReceptionModeToggle**

**Description**

Toggles the reception mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRReceptionModeToggle[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRReceptionModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRScanModeSet**

**Description**

Changes the Scan mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRScanModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRScanModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRScanModeGet**

**Description**

Returns the Scan mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRScanModeGet[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRScanModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **ALMGRScanModeToggle**

**Description**

Toggles the Scan mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRScanModeToggle[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRScanModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRDwellingTimeSet**

**Description**

Changes the Dwelling Time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRDwellingTimeSet&Time=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRDwellingTimeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRDwellingTimeGet**

**Description**

Returns the Dwelling Time

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRDwellingTimeGet[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRDwellingTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Time" : <integer> } } }
```

- **ALMGRBackHomeWhenNoAlarmSet**

**Description**

Changes Back home when no alarm mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRBackHomeWhenNoAlarmSet&Back_Home=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRBackHomeWhenNoAlarmSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRBackHomeWhenNoAlarmGet**

**Description**

Returns Back home when no alarm mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRBackHomeWhenNoAlarmGet[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRBackHomeWhenNoAlarmGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Back_Home" : <integer> } } }
```

- **ALMGRBackHomeWhenNoAlarmToggle**

**Description**

Toggles Back home when no alarm mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRBackHomeWhenNoAlarmToggle[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRBackHomeWhenNoAlarmToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRGeneralSettingsDirtyGet**

**Description**

Gets if general settings are dirty or not

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRGeneralSettingsDirtyGet[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRGeneralSettingsDirtyGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Dirty" : <integer> } } }
```

- **ALMGRRuleEnabledSet**

**Description**

Changes the rule status (0 off,1 on)

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleEnabledSet&Rule=<integer>&Enabled=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleEnabledSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleEnabledGet**

**Description**

Returns the rule status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleEnabledGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleEnabledGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enabled" : <integer> } } }
```

- **ALMGRRuleEnabledToggle**

**Description**

Toggles the rule status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleEnabledToggle&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleEnabledToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleSourceDeviceSet**

**Description**

Changes the rule source device type and id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleSourceDeviceSet&Rule=<integer>&Type=<integer>&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleSourceDeviceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleSourceDeviceGet**

**Description**

Returns the rule source device type and id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleSourceDeviceGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleSourceDeviceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer>, "Id" : <integer> } } }
```

- **ALMGRRuleSourceSensorSet**

**Description**

Changes the sensor settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleSourceSensorSet&Rule=<integer>&KeepAliveTime=<integer>&Port=<integer>&Address=<string>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleSourceSensorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleSourceSensorGet**

**Description**

Returns the sensor settings

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleSourceSensorGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleSourceSensorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "KeepAliveTime" : <integer>, "Port" : <integer>, "Address" : <string> } } }
```

- **ALMGRRuleSourceElementIdsSet**

**Description**

Changes the list of element ids

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleSourceElementIdsSet&Rule=<integer>&ElementId=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleSourceElementIdsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleSourceElementIdsGet**

**Description**

Gets the list of element ids

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleSourceElementIdsGet&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleSourceElementIdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ElementId" : "<string>" } } }
```

- **ALMGRRuleActionSet**

**Description**

Changes the rule action

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionSet&Rule=<integer>&Action=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionGet**

**Description**

Returns the rule action

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionGet&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Action" : <integer> } } }
```

- **ALMGRRuleActionToggle**

**Description**

Toggles the rule action

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionToggle&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionAssociatedDeviceIdSet**

**Description**

Changes the device id of a device type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionAssociatedDeviceIdSet&Rule=<integer>&Type=<integer>&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionAssociatedDeviceIdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionAssociatedDeviceIdGet**

**Description**

Returns the device id of a device type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionAssociatedDeviceIdGet&Rule=<integer>&Type=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionAssociatedDeviceIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <integer> } } }
```

- **ALMGRRuleActionScanListNameSet**

**Description**

Changes the scan list name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionScanListNameSet&Rule=<integer>&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionScanListNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionScanListNameGet**

**Description**

Returns the scan list name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionScanListNameGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionScanListNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **ALMGRRuleActionNumberOfCyclesSet**

**Description**

Changes the number of cycles

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNumberOfCyclesSet&Rule=<integer>&Cycles=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNumberOfCyclesSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionNumberOfCyclesGet**

**Description**

Returns number of cycles

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNumberOfCyclesGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNumberOfCyclesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Cycles" : <integer> } } }
```

- **ALMGRRuleActionIOOutputSet**

**Description**

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionIOOutputSet&Rule=<integer>&Port=<integer>&Ids=<string>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionIOOutputSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionIOOutputGet**

**Description**

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionIOOutputGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionIOOutputGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Port" : <integer>, "Ids" : <string> } } }
```

- **ALMGRRuleActionIOOutputStateModeSet**

**Description**

Changes the output state mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionIOOutputStateModeSet&Rule=<integer>&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionIOOutputStateModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionIOOutputStateModeGet**

**Description**

Gets the output state mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionIOOutputStateModeGet&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionIOOutputStateModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **ALMGRRuleActionIOOutputStateModeToggle**

**Description**

Toggles the output state mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionIOOutputStateModeToggle&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionIOOutputStateModeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionPanTiltPresetSet**

**Description**

Changes the number of preset

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionPanTiltPresetSet&Rule=<integer>&Id=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionPanTiltPresetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionPanTiltPresetGet**

**Description**

Gets the number of preset

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionPanTiltPresetGet&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionPanTiltPresetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Ids" : <string> } } }
```

- **ALMGRRuleActionSoundFileSet**

**Description**

Changes the sound file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionSoundFileSet&Rule=<integer>&File=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionSoundFileSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionSoundFileGet**

**Description**

Gets the sound file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionSoundFileGet&Rule=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionSoundFileGet": { "Return Code" : "<code>", "Return String" : "<string>", { "File" : <string> } } }
```

- **ALMGRRuleActionNotificationListSet**

**Description**

Changes the number of notification list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRRuleActionNotificationListSet&Rule=<integer>&List=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "ALMGRRuleActionNotificationListSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionNotificationListGet**

**Description**

Gets the number of notification list

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationListGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "List" : <integer> } }
```

- **ALMGRRuleActionNotificationSubjectSet**

**Description**

Changes the notification subject

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationSubjectSet&Rule=<integer>&Subject=<string>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationSubjectSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionNotificationSubjectGet**

**Description**

Gets the notification subject

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationSubjectGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationSubjectGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Subject" : <string> } } }
```

- **ALMGRRuleActionNotificationImageTypeSet**

**Description**

Changes the image type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationImageTypeSet&Rule=<integer>&Type=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationImageTypeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionNotificationImageTypeGet**

**Description**

Gets the image type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationImageTypeGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationImageTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer> } } }
```

- **ALMGRRuleActionNotificationImageTypeToggle**

**Description**

Toggles the image type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationImageTypeToggle&Rule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationImageTypeToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionNotificationImageAttachSet**

**Description**

Changes the image type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationImageAttachSet&Rule=<integer>&Type=<integer>[&DeviceID=<devId>]

**Response**

```
{ "ALMGRRuleActionNotificationImageAttachSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **ALMGRRuleActionNotificationImageAttachGet**

**Description**

Gets the image type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationImageAttachGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleActionNotificationImageAttachGet": { "Return Code" : "<code>", "Return String" : "<string>", "Type" : <integer> } }

- **ALMGRRuleActionNotificationImageAttachToggle**

**Description**

Toggles the image type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationImageAttachToggle&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleActionNotificationImageAttachToggle": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **ALMGRRuleActionNotificationActivityReportSet**

**Description**

Changes the interval time to send activity report

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationActivityReportSet&Rule=<integer>&Time=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleActionNotificationActivityReportSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **ALMGRRuleActionNotificationActivityReportGet**

**Description**

Gets the interval time to send activity report

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationActivityReportGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleActionNotificationActivityReportGet": { "Return Code" : "<code>", "Return String" : "<string>", "Time" : <integer> } }

- **ALMGRRuleActionNotificationBodySet**

**Description**

Changes the Notification\_Body

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationBodySet&Rule=<integer>&BodyNotification=<string>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleActionNotificationBodySet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **ALMGRRuleActionNotificationBodyGet**

**Description**

Gets the Notification\_Body

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleActionNotificationBodyGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleActionNotificationBodyGet": { "Return Code" : "<code>", "Return String" : "<string>", "BodyNotification" : <string> } }

- **ALMGRRuleDirtyGet**

**Description**

Gets if the rule is dirty or not

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleDirtyGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleDirtyGet": { "Return Code" : "<code>", "Return String" : "<string>", "Dirty" : <integer> } }

- **ALMGRRuleNameSet**

**Description**

Changes the rule name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleNameSet&Rule=<integer>&Name=<string>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **ALMGRRuleNameGet**

**Description**

Gets the rule name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRRuleNameGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRRuleNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }

- **ALMGRMultipleActionsSet**

**Description**

Sets multiple actions for given rule

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRMultipleActionsSet&Rule=<integer>&ActionsMask=<longint>[&DeviceID=<devId>]

**Response**

{ "ALMGRMultipleActionsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **ALMGRMultipleActionsGet**

**Description**

Gets multiple actions mask for given rule

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRMultipleActionsGet&Rule=<integer>[&DeviceID=<devId>]

**Response**

{ "ALMGRMultipleActionsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ActionsMask" : <longint> } } }

- **ALMGRLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRLastNMEAGet[&DeviceID=<devId>]

**Response**

{ "ALMGRLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Timestamp" : <string>, "LastAction" : <integer>, "AlarmTimestamp" : <string>, "RestartTimestamp" : <string> } } }

- **ALMGRWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRWebSettingsSet&Settings=<string>[&DeviceID=<devId>]

**Response**

{ "ALMGRWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }

- **ALMGRWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=ALMGRWebSettingsGet[&DeviceID=<devId>]

**Response**

{ "ALMGRWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }

- **ALMGRWebSettingsItemSet**

**Description**

Sets the most important settings of camera driver

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRWebSettingsItemSet&ItemType=<integer>&ItemID=<integer>&Settings=<string>[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRWebSettingsItemSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : "<string>" } } }
```

- **ALMGRWebSettingsItemGet**

**Description**

Requests the most important settings of camera driver

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=ALMGRWebSettingsItemGet&ItemType=<integer>&ItemID=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "ALMGRWebSettingsItemGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : "<string>" } } }
```

- **SOUNDPlayFile**

**Description**

Plays specified WAV audio file

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDPlayFile&File=<string>[&DeviceID=<devId>]`

**Response**

```
{ "SOUNDPlayFile": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDClearCurrent**

**Description**

Terminates playing the current file

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDClearCurrent[&DeviceID=<devId>]`

**Response**

```
{ "SOUNDClearCurrent": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDClearQueue**

**Description**

Clears only the content of the queue

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDClearQueue[&DeviceID=<devId>]`

**Response**

```
{ "SOUNDClearQueue": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDClearAll**

**Description**

Cancels current and queued audio

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDClearAll[&DeviceID=<devId>]`

**Response**

```
{ "SOUNDClearAll": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDVolumePercentageSet**

**Description**

Sets volume percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDVolumePercentageSet&Volume=<float>[&DeviceID=<devId>]`

**Response**

```
{ "SOUNDVolumePercentageSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDVolumePercentageGet**

**Description**

Gets volume percentage

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDVolumePercentageGet[&DeviceID=<devId>]`

**Response**

```
{ "SOUNDVolumePercentageGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Volume" : <float> } } }
```

- **SOUNDOnOffSet**

**Description**

Sets the state of the Sound

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDOnOffSet&OnOff=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SOUNDOnOffSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDOnOffGet**

**Description**

Requests the current state of the sound

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDOnOffGet[&DeviceID=<devId>]
```

**Response**

```
{ "SOUNDOnOffGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **SOUNDTestPlaySet**

**Description**

Sets the state of the play test

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDTestPlaySet&State=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SOUNDTestPlaySet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SOUNDTestPlayGet**

**Description**

Requests the the state of the play test

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SOUNDTestPlayGet[&DeviceID=<devId>]
```

**Response**

```
{ "SOUNDTestPlayGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OnOff" : <integer> } } }
```

- **SCHEDFileNameSet**

**Description**

Selects the file for the scheduler spec

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDFileNameSet&File=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDFileNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDFileNameGet**

**Description**

Returns the file name of the scheduler spec

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDFileNameGet[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDFileNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "File" : <string> } } }
```

- **SCHEDFileRead**

**Description**

Updates scheduler tasks reading from the XML spec file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDFileRead[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDFileRead": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDFileWrite**

**Description**

Writes current scheduler tasks in the XML spec file

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDFileWrite[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDFileWrite": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDActiveSet**

**Description**

Sets the scheduler to be active or inactive

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDActiveSet&Active=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDActiveSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDActiveGet**

**Description**

Requests current state of the scheduler (active or inactive)

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDActiveGet[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDActiveGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Active" : <integer> } } }
```

- **SCHEDReset**

**Description**

Resets the list of tasks in the scheduler

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDReset[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTick**

**Description**

Forces checking the list of tasks for execution

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTick[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTick": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskEnableSet**

**Description**

Enables/Disables a specific task in the list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskEnableSet&Id=<integer>&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskEnableGet**

**Description**

Enables/Disables a specific task in the list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskEnableGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **SCHEDTaskCreate**

**Description**

Create a new task in the list and assigns the name

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskCreate&File=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskCreate": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <integer> } } }
```

- **SCHEDTaskDateTimeAdd**

**Description**

Adds a DateTime rule to a specific task

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskDateTimeAdd&Id=<integer>&Frequency=<integer>&Sec=<integer>&Min=<integer>&Hour=<integer>&Day=<integer>&Month=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskDateTimeAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskDateTimeRemove**

**Description**

Removes a DateTime rule from a specific task

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskDateTimeRemove&Id=<integer>&Frequency=<integer>&Sec=<integer>&Min=<integer>&Hour=<integer>&Day=<integer>&Month=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskDateTimeRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskDateTimeGet**

**Description**

Returns the parameters of a specific task DateTime rule index retrieved with SCHEDDateTimeMarkIdsListGet function

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskDateTimeGet&TaskId=<integer>&DateTimeIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskDateTimeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Frequency" : <integer>, "Sec" : <integer>, "Min" : <integer>, "Hour" : <integer>, "Day" : <integer>, "Month" : <integer> } } }
```

- **SCHEDTaskActionSet**

**Description**

Sets the task action code or command

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskActionSet&Id=<integer>&Type=<integer>&Action=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskActionSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskActionGet**

**Description**

Returns the action configuration of a specific task

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskActionGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskActionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer>, "Action" : <string> } } }
```

- **SCHEDTaskRemove**

**Description**

Removes a specific task from the list

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskRemove&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskNameSet**

**Description**

Sets the task name

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskNameSet&Id=<integer>&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskNameGet**

**Description**

Returns the name of a specific task

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskNameGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SCHEDTaskNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **SCHEDTaskIdsListGet**

**Description**

Returns the Tasks Ids List in a string

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=SCHEDTaskIdsListGet\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskIdsListGet[&DeviceID=<devId>])

**Response**

```
{ "SCHEDTaskIdsListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TasksIdsList" : <string> } } }
```

- **SCHEDDateTimeMarkIdsListGet**

**Description**

Returns the Date Time Mark Ids List in a string for a specific task

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=SCHEDDateTimeMarkIdsListGet&TaskId=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDDateTimeMarkIdsListGet&TaskId=<integer>[&DeviceID=<devId>])

**Response**

```
{ "SCHEDDateTimeMarkIdsListGet": { "Return Code" : "<code>", "Return String" : "<string>", { "TasksIdsList" : <string> } } }
```

- **SCHEDTaskExecutionModeSet**

**Description**

Sets the Execution Mode for a specific task. (0: Override User Control, 1: Request Token, 2: Execute Only If System Not In Use)

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=SCHEDTaskExecutionModeSet&Id=<integer>&ExecutionMode=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskExecutionModeSet&Id=<integer>&ExecutionMode=<integer>[&DeviceID=<devId>])

**Response**

```
{ "SCHEDTaskExecutionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SCHEDTaskExecutionModeGet**

**Description**

Gets the Execution Mode for a specific task. (0: Override User Control, 1: Request Token, 2: Execute Only If System Not In Use)

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=SCHEDTaskExecutionModeGet&Id=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SCHEDTaskExecutionModeGet&Id=<integer>[&DeviceID=<devId>])

**Response**

```
{ "SCHEDTaskExecutionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "ExecutionMode" : <integer> } } }
```

- **MSGNotificationSend**

**Description**

Send Message with a List of Notifications separated by commas

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=MSGNotificationSend&Subject=<string>&Body=<string>&Attachment=<string>&NotificationGroup=<string>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationSend&Subject=<string>&Body=<string>&Attachment=<string>&NotificationGroup=<string>[&DeviceID=<devId>])

**Response**

```
{ "MSGNotificationSend": { "Return Code" : "<code>", "Return String" : "<string>", { "IdMessage" : <string> } } }
```

- **MSGMessagingSystemAdd**

**Description**

Add a new messaging system

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=MSGMessagingSystemAdd&Type=<integer>&Name=<string>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGMessagingSystemAdd&Type=<integer>&Name=<string>[&DeviceID=<devId>])

**Response**

```
{ "MSGMessagingSystemAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <integer> } } }
```

- **MSGMessagingSystemRemove**

**Description**

Remove Messaging System

**Command**

[http://<ip>:<port>/Nexus.cgi?session=<session\\_id>&action=MSGMessagingSystemRemove&Id=<integer>\[&DeviceID=<devId>\]](http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGMessagingSystemRemove&Id=<integer>[&DeviceID=<devId>])

**Response**

```
{ "MSGMessagingSystemRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGMessagingSystemListIdsGet**

**Description**

Returns list of messaging system Ids separated by commas

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemListIdsGet[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemListIdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "List" : <string> } } }
```

- **MSGMessagingSystemTypeGet**

**Description**

Returns Msg system type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemTypeGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemTypeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Type" : <integer> } } }
```

- **MSGMessagingSystemNameGet**

**Description**

Returns Messaging System Name

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemNameGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **MSGMessagingSystemNameSet**

**Description**

Sets Messaging System Name to Messaging System

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemNameSet&Id=<integer>&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGMessagingSystemEmailSet**

**Description**

Sets email Messaging system parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemEmailSet&Id=<integer>&Port=<longint>&Authentication=<integer>&TLS=<integer>&IPAddress=<string>&FromAddress=<string>&User=<string>&Password=<string>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemEmailSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGMessagingSystemEmailGet**

**Description**

Returns email Messaging system parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemEmailGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemEmailGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Port" : <longint>, "Authentication" : <integer>, "TLS" : <integer>, "IPAddress" : <string>, "FromAddress" : <string>, "User" : <string>, "Password" : <string> } } }
```

- **MSGMessagingSystemMilestoneSet**

**Description**

Sets Milestone Messaging System parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemMilestoneSet&Id=<integer>&Port=<longint>&IPAddress=<string>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemMilestoneSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGMessagingSystemMilestoneGet**

**Description**

Returns Milestone Messaging System parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemMilestoneGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemMilestoneGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Port" : <longint>, "IPAddress" : <string> } } }
```

- **MSGMessagingSystemXMLGenericSet**

**Description**

Sets XML Generic Messaging System parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemXMLGenericSet&Id=<integer>&Protocol=<integer>&Port=<longint>&TransportType=<integer>&IPAddress=<string>&Device\_Name=<string>&Device\_Id=<string>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemXMLGenericSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGMessagingSystemXMLGenericGet**

**Description**

Returns XML Generic Messaging System parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemXMLGenericGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemXMLGenericGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Protocol" : <integer>, "Port" : <longint>, "TransportType" : <integer>, "IPAddress" : <string>, "Device_Name" : <string>, "Device_Id" : <string> } } }
```

- **MSGMessagingSystemXMLGenericProtocolSet**

**Description**

Set Generic Messaging System Protocol type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemXMLGenericProtocolSet&Id=<integer>&Protocol=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemXMLGenericProtocolSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGMessagingSystemXMLGenericProtocolGet**

**Description**

Returns Generic Messaging System protocol type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemXMLGenericProtocolGet&Id=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemXMLGenericProtocolGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Protocol" : <integer> } } }
```

- **MSGMessagingSystemConfigXMLSave**

**Description**

Returns Generic Messaging System protocol type

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGMessagingSystemConfigXMLSave[&DeviceID=<devId>]

**Response**

```
{ "MSGMessagingSystemConfigXMLSave": { "Return Code" : "<code>", "Return String" : "<string>", { "Protocol" : <integer> } } }
```

- **MSGNotificationGroupAdd**

**Description**

Add new Notification Group

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGNotificationGroupAdd&Name=<string>[&DeviceID=<devId>]

**Response**

```
{ "MSGNotificationGroupAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "Id" : <integer> } } }
```

- **MSGNotificationGroupRemove**

**Description**

Remove Notification Group

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupRemove&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGNotificationGroupListIdsGet**

**Description**

Returns Notification Group List

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupListIdsGet[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupListIdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "List" : <string> } } }
```

- **MSGNotificationGroupNameGet**

**Description**

Returns Notification Group Name

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupNameGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupNameGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Name" : <string> } } }
```

- **MSGNotificationGroupNameSet**

**Description**

Sets Notification Group Name

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupNameSet&Id=<integer>&Name=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupNameSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGNotificationGroupAddressAdd**

**Description**

Adds new Address List to Notification Group

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupAddressAdd&Id=<integer>&MessagingSystemId=<integer>&AddressList=<string>[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupAddressAdd": { "Return Code" : "<code>", "Return String" : "<string>", { "AddrId" : <integer> } } }
```

- **MSGNotificationGroupAddressRemove**

**Description**

Removes Address List from Notification Group

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupAddressRemove&Id=<integer>&AddrId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupAddressRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **MSGNotificationGroupAddressListIdsGet**

**Description**

Returns Address List Ids separated by comma

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=MSGNotificationGroupAddressListIdsGet&Id=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "MSGNotificationGroupAddressListIdsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AddressListIds" : <string> } } }
```

- **MSGNotificationGroupAddressGet**

**Description**

Returns Address parameters

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGNotificationGroupAddressGet&Id=<integer>&AddrId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "MSGNotificationGroupAddressGet": { "Return Code" : "<code>", "Return String" : "<string>", "MessagingSystemId" : <integer>, "AddressList" : <string> } }
```

- **MSGNotificationGroupAddressSet**

**Description**

Sets List Addresses and Messaging System

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=MSGNotificationGroupAddressSet&Id=<integer>&AddrId=<integer>&MessagingSystemId=<integer>&AddressList=<string>[&DeviceID=<devId>]

**Response**

```
{ "MSGNotificationGroupAddressSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYRegisteredSensorsGet**

**Description**

Returns the sensors registered in the gateway database

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYRegisteredSensorsGet[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYRegisteredSensorsGet": { "Return Code" : "<code>", "Return String" : "<string>", "Sensors" : <string> } }
```

- **GATEWAYSensorAdd**

**Description**

Adds a sensor to the gateway database

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYSensorAdd&SensorUUID=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYSensorAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSensorRemove**

**Description**

Removes a sensor from the gateway database

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYSensorRemove&SensorUUID=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYSensorRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSensorStatusGet**

**Description**

Returns the sensor status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYSensorStatusGet&SensorUUID=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYSensorStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", "Status" : <integer> } }
```

- **GATEWAYSensorCommandSend**

**Description**

Sends a command to the selected sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYSensorCommandSend&UUID=<string>&Command=<string>&CommandTimeout=<integer>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYSensorCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", "ReturnMessage" : "<string> } }
```

- **GATEWAYSensorLastConfigGet**

**Description**

Returns the last configuration stored for the sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYSensorLastConfigGet&UUID=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYSensorLastConfigGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LastConn" : <string> } }
```

- **GATEWAYUserAdd**

**Description**

Adds a user to the gateway database

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserAdd&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYUserRemove**

**Description**

Removes a user from the gateway database

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserRemove&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYUserIdGet**

**Description**

Returns the user id associated to an email

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserIdGet&UserEmail=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserIdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UserId" : <string> } } }
```

- **GATEWAYUserAliasGet**

**Description**

Returns the alias associated to a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserAliasGet&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserAliasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UserAlias" : <string> } } }
```

- **GATEWAYUserAliasSet**

**Description**

Sets the alias associated to a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserAliasSet&UserId=<string>&UserAlias=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserAliasSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYUserEmailGet**

**Description**

Returns the email associated to a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserEmailGet&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserEmailGet": { "Return Code" : "<code>", "Return String" : "<string>", { "UserEmail" : <string> } } }
```

- **GATEWAYUserEmailSet**

**Description**

Sets the email associated to a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserEmailSet&UserId=<string>&UserEmail=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserEmailSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYUserSensorsGet**

**Description**

Returns the sensors associated to a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserSensorsGet&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserSensorsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensors" : <string> } } }
```

- **GATEWAYUserSensorAdd**

**Description**

Registers the specified sensor to a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserSensorAdd&UserId=<string>&SensorId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserSensorAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYUserSensorRemove**

**Description**

Unregisters the specified sensor from a user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserSensorRemove&UserId=<string>&SensorId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserSensorRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYUserStatusGet**

**Description**

Returns the user status

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserStatusGet&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **GATEWAYUserLastConnectionGet**

**Description**

Returns the info associated to the last connection of the user

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserLastConnectionGet&UserId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserLastConnectionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "LastConn" : <string> } } }
```

- **GATEWAYUserSensorAliasGet**

**Description**

Returns the alias associated to a sensor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=GATEWAYUserSensorAliasGet&UserId=<string>&SensorId=<string>[&DeviceID=<devId>]

**Response**

```
{ "GATEWAYUserSensorAliasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SensorAlias" : <string> } } }
```

- **GATEWAYUserSensorAliasSet**

**Description**

Sets the alias associated to a sensor

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYUserSensorAliasSet&UserId=<string>&SensorId=<string>&SensorAlias=<string>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYUserSensorAliasSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSiteAdd**

**Description**

Adds a site with a given ID to the gateway database

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSiteAdd&SiteId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSiteAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSiteRemove**

**Description**

Removes a site with a given ID from the gateway database

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSiteRemove&SiteId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSiteRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSitesGet**

**Description**

Returns the list of the gateway registered sites

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSitesGet[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSitesGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sites" : <string> } } }
```

- **GATEWAYSiteAliasGet**

**Description**

Returns the site alias

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSiteAliasGet&SiteId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSiteAliasGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SiteAlias" : <string> } } }
```

- **GATEWAYSiteAliasSet**

**Description**

Sets the alias associated to a site

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSiteAliasSet&SiteAlias=<string>&SiteId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSiteAliasSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSiteSensorAdd**

**Description**

Adds the specified sensor to a site

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSiteSensorAdd&SensorId=<string>&SiteId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSiteSensorAdd": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATEWAYSiteSensorRemove**

**Description**

Removes the specified sensor from a site

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATEWAYSiteSensorRemove&SensorId=<string>&SiteId=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "GATEWAYSiteSensorRemove": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **GATESensorsGet**

**Description**

Returns the list of the site registered sensors

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=GATESensorsGet&SiteId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "GATESensorsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Sensors" : <string> } } }
```

- **THERMOLastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=THERMOLastNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "THERMOLastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceId" : <integer>, "Health" : <integer>, "BIT" : <integer>, "Temperature_Valid" : <integer>, "Temperature" : <float>, "Temperature_Min" : <float>, "Temperature_Max" : <float>, "Timestamp" : <string>, "Label" : <string> } } }
```

- **THERMOSTATRuleCountGet**

**Description**

Returns the number of rules

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=THERMOSTATRuleCountGet[&DeviceID=<devId>]
```

**Response**

```
{ "THERMOSTATRuleCountGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Count" : <integer> } } }
```

- **THERMOSTATRuleEnableSet**

**Description**

Enables or disables the specified rule

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=THERMOSTATRuleEnableSet&RuleId=<integer>&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "THERMOSTATRuleEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **THERMOSTATRuleEnableGet**

**Description**

Returns if the specified rule is enabled or not

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=THERMOSTATRuleEnableGet&RuleId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "THERMOSTATRuleEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **THERMOSTATRuleReset**

**Description**

Reset the rule

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=THERMOSTATRuleReset&RuleId=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "THERMOSTATRuleReset": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **THERMOSTATRuleTypeEnableSet**

**Description**

Enables or disables all the rules of the specified rule type

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=THERMOSTATRuleTypeEnableSet&RuleType=<integer>&Enable=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "THERMOSTATRuleTypeEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **THERMOSTATRuleTypeEnableGet**

**Description**

Returns if the specified rule type is enabled or not. Only one rule disabled makes the fcn return disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATRuleTypeEnableGet&RuleType=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATRuleTypeEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **THERMOSTATRuleTypeIdEnableSet**

**Description**

Enables or disables all the rules of the specified rule type id

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATRuleTypeIdEnableSet&RuleType=<integer>&RuleTypeId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATRuleTypeIdEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **THERMOSTATRuleTypeIdEnableGet**

**Description**

Returns if the specified rule type id is enabled or not. Only one rule disabled makes the fcn return disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATRuleTypeIdEnableGet&RuleType=<integer>&RuleTypeId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATRuleTypeIdEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **THERMOSTATDelceSet**

**Description**

Enables or disables the deice

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATDelceSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATDelceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **THERMOSTATDelceGet**

**Description**

Returns if the specified rule type id is enabled or not. Only one rule disabled makes the fcn return disabled

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATDelceGet[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATDelceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **THERMOSTATRuleHeaterStatusSet**

**Description**

Turns On or Off the heater associated to the specified rule. The rule might change the heater status if the condition applies

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATRuleHeaterStatusSet&RuleId=<integer>&Status=<integer>&ResetRule=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATRuleHeaterStatusSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **THERMOSTATRuleHeaterStatusGet**

**Description**

Returns the heater status according to the rule

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATRuleHeaterStatusGet&RuleId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATRuleHeaterStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **THERMOSTATRuleStatusGet**

**Description**

Returns the rule status. Indicates if the rule is being taken into account in the thermostat control

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=THERMOSTATRuleStatusGet&RuleId=<integer>[&DeviceID=<devId>]

**Response**

```
{ "THERMOSTATRuleStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **VAEnableSet**

**Description**

Turns On or Off the video analytics

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VAEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAEnableGet**

**Description**

Returns the state of the video analytics

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAEnableGet[&DeviceID=<devId>]

**Response**

```
{ "VAEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **VAOSDEnableSet**

**Description**

Turns On or Off the video analytics OSD

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAOSDEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VAOSDEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAOSDEnableGet**

**Description**

Returns the state of the video analytics OSD

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAOSDEnableGet[&DeviceID=<devId>]

**Response**

```
{ "VAOSDEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }
```

- **VASensitivityLevelSet**

**Description**

sets the sensitivity level

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VASensitivityLevelSet&Level=<longint>[&DeviceID=<devId>]

**Response**

```
{ "VASensitivityLevelSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VASensitivityLevelGet**

**Description**

Returns the sensitivity level

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VASensitivityLevelGet[&DeviceID=<devId>]

**Response**

```
{ "VASensitivityLevelGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Level" : <longint> } } }
```

- **VASmoothingFactorSet**

**Description**

sets the Smoothing Factor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VASmoothingFactorSet&Factor=<longint>[&DeviceID=<devId>]

**Response**

```
{ "VASmoothingFactorSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VASmoothingFactorGet**

**Description**

Returns the Smoothing Factor

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VASmoothingFactorGet[&DeviceID=<devId>]

**Response**

```
{ "VASmoothingFactorGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Factor" : <longint> } } }
```

- **VAConfidenceThresholdSet**

**Description**

sets the Confidence Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAConfidenceThresholdSet&Threshold=<longint>[&DeviceID=<devId>]

**Response**

```
{ "VAConfidenceThresholdSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAConfidenceThresholdGet**

**Description**

Returns the Confidence Threshold

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAConfidenceThresholdGet[&DeviceID=<devId>]

**Response**

```
{ "VAConfidenceThresholdGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Threshold" : <longint> } } }
```

- **VARestoreToDefault**

**Description**

Restore VA settings to default

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VARestoreToDefault[&DeviceID=<devId>]

**Response**

```
{ "VARestoreToDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VATuningParameterSet**

**Description**

Sets the tuning parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VATuningParameterSet&Parameter=<longint>&Value=<double>[&DeviceID=<devId>]

**Response**

```
{ "VATuningParameterSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VATuningParameterGet**

**Description**

returns the tuning parameter value

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VATuningParameterGet&Parameter=<longint>[&DeviceID=<devId>]

**Response**

```
{ "VATuningParameterGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Value" : <double> } } }
```

- **VAEvironmentSet**

**Description**

Sets the type of environment for the va algorithm

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAEnvironmentSet&Environment=<integer>[&DeviceID=<devId>]

**Response**

```
{ "VAEnvironmentSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAEvironmentGet**

**Description**

Gets the type of environment for the va algorithm

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAEnvironmentGet[&DeviceID=<devId>]  
**Response**  
{ "VAEnvironmentGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Environment" : <integer> } } }

- **VASaveToDefault**

**Description**

Save VA settings to default

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VASaveToDefault[&DeviceID=<devId>]

**Response**

{ "VASaveToDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VAESTEnableSet**

**Description**

Turns On or Off the EST Screening

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAESTEnableSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

{ "VAESTEnableSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VAESTEnableGet**

**Description**

Returns the state of the EST Screening

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAESTEnableGet[&DeviceID=<devId>]

**Response**

{ "VAESTEnableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }

- **VAESTOSDFullOnStreamSet**

**Description**

Turns On or Off the full EST overlay on video stream

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAESTOSDFullOnStreamSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

{ "VAESTOSDFullOnStreamSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VAESTOSDFullOnStreamGet**

**Description**

Returns the state of the full EST overlay on video stream

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAESTOSDFullOnStreamGet[&DeviceID=<devId>]

**Response**

{ "VAESTOSDFullOnStreamGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }

- **VAESTOSDDisplayTempSet**

**Description**

Turns On or Off displaying overlay temperature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAESTOSDDisplayTempSet&Enable=<integer>[&DeviceID=<devId>]

**Response**

{ "VAESTOSDDisplayTempSet": { "Return Code" : "<code>", "Return String" : "<string>" } }

- **VAESTOSDDisplayTempGet**

**Description**

Returns the state of EST temperature display

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=VAESTOSDDisplayTempGet[&DeviceID=<devId>]

**Response**

{ "VAESTOSDDisplayTempGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer> } } }

- **VAESTTempUnitsSet**

**Description**

Sets the temperature units

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAESTTempUnitsSet&Units=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VAESTTempUnitsSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAESTTempUnitsGet**

**Description**

Returns the temperature units

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAESTTempUnitsGet[&DeviceID=<devId>]`

**Response**

```
{ "VAESTTempUnitsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Units" : <integer> } } }
```

- **VAESTFaceCoverDetectionModeSet**

**Description**

Sets the face cover detection mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAESTFaceCoverDetectionModeSet&Mode=<integer>[&DeviceID=<devId>]`

**Response**

```
{ "VAESTFaceCoverDetectionModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAESTFaceCoverDetectionModeGet**

**Description**

Returns the face cover detection mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAESTFaceCoverDetectionModeGet[&DeviceID=<devId>]`

**Response**

```
{ "VAESTFaceCoverDetectionModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **VAESTTempOffsetSet**

**Description**

Sets the temperature offset mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAESTTempOffsetSet&Enable=<integer>&Value=<float>[&DeviceID=<devId>]`

**Response**

```
{ "VAESTTempOffsetSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VAESTTempOffsetGet**

**Description**

Returns the temperature offset mode

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAESTTempOffsetGet[&DeviceID=<devId>]`

**Response**

```
{ "VAESTTempOffsetGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Enable" : <integer>, "Value" : <float> } } }
```

- **VAWebSettingsSet**

**Description**

Sets the most important settings of camera driver

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAWebSettingsSet&Settings=<string>[&DeviceID=<devId>]`

**Response**

```
{ "VAWebSettingsSet": { "Return Code" : "<code>", "Return String" : "<string>", { "SettingsReturns" : <string> } } }
```

- **VAWebSettingsGet**

**Description**

Requests the most important settings of camera driver

**Command**

`http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VAWebSettingsGet[&DeviceID=<devId>]`

**Response**

```
{ "VAWebSettingsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Settings" : <string> } } }
```

- **VALastNMEAGet**

**Description**

Requests the value of the current NMEA string of this device.

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VALastNMEAGet[&DeviceID=<devId>]
```

**Response**

```
{ "VALastNMEAGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DeviceType" : <integer>, "DeviceID" : <integer>, "Health" : <integer>, "BIT" : <integer>, "AssociatedDevType" : <integer>, "AssociatedDevID" : <integer>, "AnalyticsEnabled" : <integer>, "NumberOfVATracks" : <integer>, "CalibrationStatus" : <float>, "ESTGlobalStatus" : <string>, "ESTWarningStatus" : <string> } } }
```

- **VARestoreFactoryDefault**

**Description**

Restores factory default settings

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VARestoreFactoryDefault[&DeviceID=<devId>]
```

**Response**

```
{ "VARestoreFactoryDefault": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDMUXOutputSourceModeSet**

**Description**

Sets the output source mode for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputSourceModeSet&OutputIndex=<integer>&OutputSourceMode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputSourceModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDMUXOutputSourceModeGet**

**Description**

Gets the output source mode for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputSourceModeGet&OutputIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputSourceModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "OutputSourceMode" : <integer> } } }
```

- **VIDMUXOutputManualSourceSet**

**Description**

Sets the manual output source index for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputManualSourceSet&OutputIndex=<integer>&SourceIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputManualSourceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDMUXOutputManualSourceGet**

**Description**

Gets the manual output source index for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputManualSourceGet&OutputIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputManualSourceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "SourceIndex" : <integer> } } }
```

- **VIDMUXOutputAutoModeSet**

**Description**

Sets the output source auto mode for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputAutoModeSet&OutputIndex=<integer>&AutoMode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputAutoModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDMUXOutputAutoModeGet**

**Description**

Gets the output source auto mode for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputAutoModeGet&OutputIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputAutoModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "AutoMode" : <integer> } } }
```

- **VIDMUXOutputAutoSpecificSourceSet**

**Description**

Sets the specific output source for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputAutoSpecificSourceSet&OutputIndex=<integer>&DevType=<integer>&DevId=<integer>&Channel=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputAutoSpecificSourceSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **VIDMUXOutputAutoSpecificSourceGet**

**Description**

Gets the specific output source for given output

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=VIDMUXOutputAutoSpecificSourceGet&OutputIndex=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "VIDMUXOutputAutoSpecificSourceGet": { "Return Code" : "<code>", "Return String" : "<string>", { "DevType" : <integer>, "DevId" : <integer>, "Channel" : <integer> } } }
```

- **SERIALREMOTEPilotModeSet**

**Description**

Turns On or Off the Pilot Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERIALREMOTEPilotModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERIALREMOTEPilotModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERIALREMOTEPilotModeGet**

**Description**

Returns the state of Pilot Mdoe

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERIALREMOTEPilotModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERIALREMOTEPilotModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **SERIALREMOTEFOVDependentModeSet**

**Description**

Sets the FOV Dependent Mode

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERIALREMOTEFOVDependentModeSet&Mode=<integer>[&DeviceID=<devId>]
```

**Response**

```
{ "SERIALREMOTEFOVDependentModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **SERIALREMOTEFOVDependentModeGet**

**Description**

Returns the FOV Dependent Mdoe

**Command**

```
http://<ip>:<port>/Nexus.cgi?session=<session_id>&action=SERIALREMOTEFOVDependentModeGet[&DeviceID=<devId>]
```

**Response**

```
{ "SERIALREMOTEFOVDependentModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **JAMMERNumberOfChannelsGet**

**Description**

Returns the number of channels

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERNumberOfChannelsGet[&DeviceID=<devId>]

**Response**

```
{ "JAMMERNumberOfChannelsGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Channels" : <integer> } } }
```

- **JAMMERChannelAvailableGet**

**Description**

Returns if the channel is available

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERChannelAvailableGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERChannelAvailableGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Available" : <integer> } } }
```

- **JAMMERChannelOnairGet**

**Description**

Returns if the channel is Power on or Standby

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERChannelOnairGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERChannelOnairGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Onair" : <integer> } } }
```

- **JAMMERChannelPowerSet**

**Description**

Sets the power of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERChannelPowerSet&Channel=<integer>&Power=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERChannelPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **JAMMERChannelPowerGet**

**Description**

Returns the power of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERChannelPowerGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERChannelPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Power" : <integer> } } }
```

- **JAMMERChannelPowerStatusGet**

**Description**

Returns the power status of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERChannelPowerStatusGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERChannelPowerStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **JAMMERModuleTemperatureGet**

**Description**

Returns the module temperature of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERModuleTemperatureGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERModuleTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **JAMMERAntennaStatusGet**

**Description**

Returns the antenna status of a channel

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERAntennaStatusGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERAntennaStatusGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Status" : <integer> } } }
```

- **JAMMERVoltageStandingWaveRatioGet**

**Description**

Returns the Voltage Standing Wave Ratio

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERVoltageStandingWaveRatioGet&Channel=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERVoltageStandingWaveRatioGet": { "Return Code" : "<code>", "Return String" : "<string>", { "VSWR" : <float> } } }
```

- **JAMMERPSUTemperatureGet**

**Description**

Returns the PSU temperature

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERPSUTemperatureGet[&DeviceID=<devId>]

**Response**

```
{ "JAMMERPSUTemperatureGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Temperature" : <float> } } }
```

- **JAMMERPowerOnModeSet**

**Description**

Sets the Power On mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERPowerOnModeSet&Mode=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERPowerOnModeSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **JAMMERPowerOnModeGet**

**Description**

Returns the Power On mode

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERPowerOnModeGet[&DeviceID=<devId>]

**Response**

```
{ "JAMMERPowerOnModeGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Mode" : <integer> } } }
```

- **JAMMERGPSChannelPowerSet**

**Description**

Sets the GPS Channel(s) Power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERGPSChannelPowerSet&Power=<integer>[&DeviceID=<devId>]

**Response**

```
{ "JAMMERGPSChannelPowerSet": { "Return Code" : "<code>", "Return String" : "<string>" } }
```

- **JAMMERGPSChannelPowerGet**

**Description**

Returns the GPS Channel(s) Power

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERGPSChannelPowerGet[&DeviceID=<devId>]

**Response**

```
{ "JAMMERGPSChannelPowerGet": { "Return Code" : "<code>", "Return String" : "<string>", { "Power" : <integer> } } }
```

- **JAMMERRawCommandSend**

**Description**

Sends a command to the JAMMER

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERRawCommandSend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

{ "JAMMERRawCommandSend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx\_data" : <string> } } }

- **JAMMERRawCommandASCIISend**

**Description**

Sends a command to the JAMMER

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERRawCommandASCIISend&cmd\_timeout=<integer>&rx\_expected=<integer>&tx\_data=<string>[&DeviceID=<devId>]

**Response**

{ "JAMMERRawCommandASCIISend": { "Return Code" : "<code>", "Return String" : "<string>", { "rx\_data" : <string> } } }

- **JAMMERBITResult**

**Description**

Requests result of last BIT routine associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERBITResult[&DeviceID=<devId>]

**Response**

{ "JAMMERBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BIT\_Result" : <integer> } } }

- **JAMMERLongBITResult**

**Description**

Requests result string of last BIT routine executed associated to this device

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERLongBITResult[&DeviceID=<devId>]

**Response**

{ "JAMMERLongBITResult": { "Return Code" : "<code>", "Return String" : "<string>", { "BITResult" : <string> } } }

- **JAMMERDeviceVersionGet**

**Description**

Requests the device version string

**Command**

http://<ip>:<port>/Nexus.cgi?session=<session\_id>&action=JAMMERDeviceVersionGet[&DeviceID=<devId>]

**Response**

{ "JAMMERDeviceVersionGet": { "Return Code" : "<code>", "Return String" : "<string>", { "rx\_data" : <string> } } }