**Camera HTTP API**

**User Guide**

**Version 2**

**2019-4**

|  |  |  |
| --- | --- | --- |
| **Revision History** | **Description** | **Data** |
| Version 1.0  Revision 1 | Initial version | 2016-06-01 |
| Version 1.1  Revision 2 | 1. Add the interface of short connection accessing CGI. 2. Add rtmp port parameter to GetNetPort and SetNetPort interfaces. 3. Add hourFmt parameter to GetTime and SetTime interfaces. 4. Add streamType and interval parameters to GetFtp and SetFtp interfaces. 5. Add schedule parameter to GetEmail and SetEmail interfaces. 6. Add GetPush and SetPush interfaces. 7. Remove enable, action and schedule parameters to GetAlarm and SetAlarm interfaces. 8. Add emailSchedule, pushSchedule and hourFmt to GetAbility interface. | 2016-11-07 |
| Version 1.2  Revision 3 | 1. Add UpgradePrepare 2. Add Shutdown 3. Add GetAuth and SetAuth 4. Add Getcloud and Setcloud 5. Get3G and Set3G 6. GetP2p and SetP2p 7. Add Preview 8. Add rtmp=start and rtmp=stop and rtmp=auth for rtmp 9. Ptz add GetPtzSerial SetPtzSerial GetPtzTattern SetPtzTattern command 10. camera increace GetAutoFocus SetAutoFocus command of focus 11. LED increace GetIrLights SetIrLights GetPowerLed SetPowerLed command 12. Add GetAudioAlarm SetAudioAlarm 13. Add HeartBeat 14. Add GetCrop SetCrop 15. Add GetAutoUpgrade SetAutoUpgrade CheckFirmware UpgradeOnline UpgradeStatus in ststem mode | 2019-4-26 |

**Contents**

[1 Scope 8](#_Toc7180203)

[2 HTTP & Json 8](#_Toc7180204)

[2.1 Protocol 8](#_Toc7180205)

[2.2 JSON 8](#_Toc7180206)

[2.3 token 9](#_Toc7180207)

[2.4 Abbreviations 10](#_Toc7180208)

[2.5 Definitions 10](#_Toc7180209)

[2.6 Example 10](#_Toc7180210)

[2.7 Preview 12](#_Toc7180211)

[2.8 Short Connection 12](#_Toc7180212)

[3 commands 13](#_Toc7180213)

[3.1 System 13](#_Toc7180214)

[3.1.1 GetAbility 13](#_Toc7180215)

[3.1.2 GetDevInfo 21](#_Toc7180216)

[3.1.3 GetTime 23](#_Toc7180217)

[3.1.4 SetTime 28](#_Toc7180218)

[3.1.5 GetAutoMaint 31](#_Toc7180219)

[3.1.6 SetAutoMaint 33](#_Toc7180220)

[3.1.7 GetPerformance 34](#_Toc7180221)

[3.1.8 GetHddInfo 36](#_Toc7180222)

[3.1.9 Format 37](#_Toc7180223)

[3.1.10 Upgrade 38](#_Toc7180224)

[3.1.11 ExportCfg 40](#_Toc7180225)

[3.1.12 ImportCfg 40](#_Toc7180226)

[3.1.13 Restore 42](#_Toc7180227)

[3.1.14 Reboot 43](#_Toc7180228)

[3.1.15 UpgradePrepare 44](#_Toc7180229)

[3.1.16 Shutdown 45](#_Toc7180230)

[3.1.17 HeartBeat 46](#_Toc7180231)

[3.1.18 GetAutoUpgrade 47](#_Toc7180232)

[3.1.19 SetAutoUpgrade 48](#_Toc7180233)

[3.1.20 CheckFirmware 49](#_Toc7180234)

[3.1.21 UpgradeOnline 50](#_Toc7180235)

[3.1.22 UpgradeStatus 51](#_Toc7180236)

[3.1.23 GetLog 52](#_Toc7180237)

[3.1.24 DelLog 53](#_Toc7180238)

[3.2 Security 54](#_Toc7180239)

[3.2.1 Login 55](#_Toc7180240)

[3.2.2 Logout 56](#_Toc7180241)

[3.2.3 GetUser 57](#_Toc7180242)

[3.2.4 AddUser 59](#_Toc7180243)

[3.2.5 DelUser 60](#_Toc7180244)

[3.2.6 ModifyUser 61](#_Toc7180245)

[3.2.7 GetOnline 62](#_Toc7180246)

[3.2.8 Disconnect 63](#_Toc7180247)

[3.2.9 GetAuth 65](#_Toc7180248)

[3.2.10 SetAuth 66](#_Toc7180249)

[3.3 Network 67](#_Toc7180250)

[3.3.1 GetLocalLink 67](#_Toc7180251)

[3.3.2 SetLocalLink 70](#_Toc7180252)

[3.3.3 GetDdns 71](#_Toc7180253)

[3.3.4 SetDdns 73](#_Toc7180254)

[3.3.5 GetEmail 75](#_Toc7180255)

[3.3.6 SetEmail 78](#_Toc7180256)

[3.3.7 GetFtp 80](#_Toc7180257)

[3.3.8 SetFtp 83](#_Toc7180258)

[3.3.9 GetNtp 85](#_Toc7180259)

[3.3.10 SetNtp 87](#_Toc7180260)

[3.3.11 GetNetPort 89](#_Toc7180261)

[3.3.12 SetNetPort 91](#_Toc7180262)

[3.3.13 TestFtp 92](#_Toc7180263)

[3.3.14 GetUpnp 94](#_Toc7180264)

[3.3.15 SetUpnp 95](#_Toc7180265)

[3.3.16 GetWifi 96](#_Toc7180266)

[3.3.17 SetWifi 98](#_Toc7180267)

[3.3.18 ScanWifi 99](#_Toc7180268)

[3.3.19 TestWifi 100](#_Toc7180269)

[3.3.20 TestEmail 102](#_Toc7180270)

[3.3.21 GetPush 103](#_Toc7180271)

[3.3.22 SetPush 105](#_Toc7180272)

[3.3.23 GetCloud 106](#_Toc7180273)

[3.3.24 SetCloud 108](#_Toc7180274)

[3.3.25 GetCloudSchedule 109](#_Toc7180275)

[3.3.26 SetCloudSchedule 110](#_Toc7180276)

[3.3.27 Get3G 112](#_Toc7180277)

[3.3.28 Set3G 113](#_Toc7180278)

[3.3.29 GetP2p 115](#_Toc7180279)

[3.3.30 SetP2P 116](#_Toc7180280)

[3.4 Video input 117](#_Toc7180281)

[3.4.1 GetNorm 117](#_Toc7180282)

[3.4.2 SetNorm 118](#_Toc7180283)

[3.4.3 GetImage 119](#_Toc7180284)

[3.4.4 SetImage 122](#_Toc7180285)

[3.4.5 GetOsd 123](#_Toc7180286)

[3.4.6 SetOsd 126](#_Toc7180287)

[3.4.7 GetIsp 127](#_Toc7180288)

[3.4.8 SetIsp 131](#_Toc7180289)

[3.4.9 GetMask 134](#_Toc7180290)

[3.4.10 SetMask 136](#_Toc7180291)

[3.4.11 Preview 139](#_Toc7180292)

[3.4.12 GetCrop 140](#_Toc7180293)

[3.5 Enc 142](#_Toc7180294)

[3.5.1 GetEnc 142](#_Toc7180295)

[3.5.2 SetEnc 147](#_Toc7180296)

[3.6 Record 149](#_Toc7180297)

[3.6.1 GetRec 149](#_Toc7180298)

[3.6.2 SetRec 151](#_Toc7180299)

[3.6.3 Search 153](#_Toc7180300)

[3.6.4 Download 158](#_Toc7180301)

[3.6.5 Snap 159](#_Toc7180302)

[3.7 PTZ 160](#_Toc7180303)

[3.7.1 GetPtzPreset 160](#_Toc7180304)

[3.7.2 SetPtzPreset 162](#_Toc7180305)

[3.7.3 GetPtzPatrol 163](#_Toc7180306)

[3.7.4 SetPtzPatrol 166](#_Toc7180307)

[3.7.5 PtzCtrl 167](#_Toc7180308)

[3.7.5 GetPtzSerial 170](#_Toc7180309)

[3.7.6 SetPtzSerial 171](#_Toc7180310)

[3.7.7 GetPtzTattern 172](#_Toc7180311)

[3.7.6 SetPtzTattern 173](#_Toc7180312)

[3.8 Alarm 175](#_Toc7180313)

[3.8.1 GetAlarm 175](#_Toc7180314)

[3.8.2 SetAlarm 184](#_Toc7180315)

[3.8.3 GetMdState 187](#_Toc7180316)

[3.8.4 GetAudioAlarm 188](#_Toc7180317)

[3.11.4 SetPowerLed 190](#_Toc7180318)

[3.9 RTMP 191](#_Toc7180319)

[3.9.1 rtmp=start 191](#_Toc7180320)

[3.9.2 rtmp=stop 192](#_Toc7180321)

[3.9.3 rtmp=auth 194](#_Toc7180322)

[3.10 AUTO\_FOCUS 195](#_Toc7180323)

[3.10.1 GetAutoFocus 195](#_Toc7180324)

[3.10.2 SetAutoFocus 196](#_Toc7180325)

[3.11 LED 198](#_Toc7180326)

[3.11.1 GetIrLights 198](#_Toc7180327)

[3.11.2 SetAutoFocus 199](#_Toc7180328)

[3.11.3 GetPowerLed 200](#_Toc7180329)

[3.11.4 SetPowerLed 202](#_Toc7180330)

[4. Response 203](#_Toc7180331)

[4.1 Error 203](#_Toc7180332)

# 1 Scope

The document defines a series of HTTP and HTTPS based application programming interface, covering the System, Security, Network, Video input, Enc, Record, PTZ, and Alarm modules.

# 2 HTTP & Json

## 2.1 Protocol

Support both HTTP and HTTPS.

And only support the POST method, get and set all through it.

|  |
| --- |
| **POST /api.cgi?cmd=xxx&token=20343295&paramxxx =xxx HTTP/1.1** |

The payload type is a JSON or file that is specified by Content-Type.

**Content-Type = “application/octet-stream” or "application/json"**

## 2.2 JSON

JSON (JavaScript Object Notation) is based on a subset of the [JavaScript Programming Language](http://javascript.crockford.com/), [Standard ECMA-262 3rd Edition - December 1999](http://www.ecma-international.org/publications/files/ecma-st/ECMA-262.pdf).

Request:

[

{

"cmd":string,

"action":int,

"param“:

{

"name": val, // val = string or int

...

},

}

...

]

Response:

[

{

"cmd":string,

"code“:int, // rsp code, 0:success, others: false

"value": or "error" // "value" when code = 0, "error" when "code" = 1

{

"name": val, // val = string or int

...

},

}

...

]

## 2.3 token

Token is the only global certification of developers. Token is required whenever developers are calling each port. Normally the lease for each token is 3600 seconds and you may regain it after it expires. Please refer to the Login command for the methods of requiring token.

## 2.4 Abbreviations

For the purposes of the present document, the following abbreviations apply:

M/O Mandatory/Optional

## 2.5 Definitions

For the purposes of the present document, the following definitions apply:

**initial:** The initial value of the configuration.

**range:** The data range of the configuration.

**value:** The current value of the configuration.

**action :** Obtain **initial**, **range** and **value** when the value is 1, obtain only the **value** when the value is 0.

**channel :** The channel number of the current device.

## 2.6 Example

1. Get token first.

**Request**：

Post /api.cgi?cmd=Login HTTP/1.1

**Response**：

HTTP/1.1 200 OK

Server: Ngnix/1.6.2

Date: Thu, 03 Mar 2016 10:48:53 GMT

Transfer-Encoding: chunked

Connection: keep-alive

Pragma: O-cache

Cache-Control: O-cache

Content-Type: application/json; charset=utf-8

[

{

"cmd" : "Login",

"code" : 0,

"value" : {

"Token" : {

"leaseTime" : 3600,

"name" : "011465962723"

}

}

}

]

2. Execute command GetUpnp.

**Request**：

Post /api.cgi?cmd=GetUpnp&token=011465962723 HTTP/1.1

**Response**：

HTTP/1.1 200 OK

Server: Ngnix/1.6.2

Date: Thu, 03 Mar 2016 10:48:53 GMT

Transfer-Encoding: chunked

Connection: keep-alive

Pragma: O-cache

Cache-Control: O-cache

Content-Type: application/json;charset=utf-8

[

{

"cmd":"GetUpnp",

"code" : 1,

"value":{

"Upnp":{

"enable":1

}

}

}

]

**Note:** Either cmd or token or both should be existed when requesting URL.

## 2.7 Preview

|  |  |
| --- | --- |
| Protocol | RTMP |
| Request URL | rtmp://192.168.2.120/bcs/channel{channelId}\_{streamName}.bcs?token=TOKEN&channel={channelId}&stream={streamType} |
| Field | Description |
| token | The only global certification of developers. Please refer to the Login command for the methods of requiring token. |
| channel | The channel number of the device (channel id) |
| stream | Stream type[0,1,2] |
| Note : The correspondences between the streamName and streamType in Request URL is shown as follow:  Main Stream：streamName=main, streamType=0.  Sub Stream：streamName=sub, streamType=1.  Extern Stream：streamName=ext, streamType=2. | |

## 2.8 Short Connection

The short connection interface is for users to skip the process of logging in to the IP Camera to get token. In this way, users just need the user name and password to access the IP Camera easily. Here is how short connection works.

e.g. Previewing:

rtmp://192.168.2.128/bcs/channel0\_main.bcs?channel=0&stream=0&user=admin&password=123456

e.g. Snapping picture:

http://192.168.2.128:80/cgi-bin/api.cgi?cmd=Snap&channel=0&rs=wuuPhkmUCeI9WG7C&user=admin&password=123456

# 3 commands

## 3.1 System

### 3.1.1 GetAbility

* **Interface Description**

|  |
| --- |
| It is used to get system ability of appointed user. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetAbility&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetAbility",  "param":{  "User":{  "userName":"admin"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| userName | User name, it should be consisted of less than 32 characters, if the user name is NULL, then it would get current user ability. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| Each domain is corresponding to a functional module. The permit field marks access right, validating in least significant three bits: the most significant bit indicates execution permission, the first bit indicates revision permission, and the second bit indicates read/write permission. The ver field indicates the version number. 0 means the feature is not supported in that version, nonzero means the feature is supported. Different version numbers indicate those certain functional modules support different functional options. | |
| [  {  "cmd" : "GetAbility",  "code" : 0,  "value" : {  "Ability" : {  "3g" : {  "permit" : 0,  "ver" : 0  },  "abilityChn" : [  {  "alarmIoIn" : {  "permit" : 0,  "ver" : 0  },  "alarmIoOut" : {  "permit" : 0,  "ver" : 0  },  "alarmMd" : {  "permit" : 6,  "ver" : 1  },  "alarmRf" : {  "permit" : 0,  "ver" : 0  },  "cameraMode" : {  "permit" : 0,  "ver" : 1  },  "enc" : {  "permit" : 6,  "ver" : 1  },  "ftp" : {  "permit" : 6,  "ver" : 2  },  "image" : {  "permit" : 6,  "ver" : 1  },  "isp" : {  "permit" : 6,  "ver" : 1  },  "live" : {  "permit" : 4,  "ver" : 1  },  "mask" : {  "permit" : 6,  "ver" : 1  },  "osd" : {  "permit" : 6,  "ver" : 1  },  "ptzCtrl" : {  "permit" : 1,  "ver" : 1  },  "ptzPatrol" : {  "permit" : 7,  "ver" : 1  },  "ptzPreset" : {  "permit" : 7,  "ver" : 1  },  "ptzTattern" : {  "permit" : 7,  "ver" : 0  },  "ptzType" : {  "permit" : 0,  "ver" : 2  },  "recCfg" : {  "permit" : 6,  "ver" : 1  },  "recDownload" : {  "permit" : 6,  "ver" : 1  },  "recReplay" : {  "permit" : 6,  "ver" : 1  },  "recSchedule" : {  "permit" : 6,  "ver" : 1  },  "snap" : {  "permit" : 6,  "ver" : 0  }  }  ],  "alarmDisconnet" : {  "permit" : 6,  "ver" : 1  },  "alarmHddErr" : {  "permit" : 6,  "ver" : 1  },  "alarmHddFull" : {  "permit" : 6,  "ver" : 1  },  "alarmIpConflict" : {  "permit" : 6,  "ver" : 1  },  "auth" : {  "permit" : 6,  "ver" : 1  },  "autoMaint" : {  "permit" : 6,  "ver" : 1  },  "ddns" : {  "permit" : 6,  "ver" : 6  },  "devInfo" : {  "permit" : 4,  "ver" : 1  },  "disk" : {  "permit" : 0,  "ver" : 0  },  "display" : {  "permit" : 6,  "ver" : 1  },  "email" : {  "permit" : 6,  "ver" : 2  },  "emailSchedule" : {  "permit" : 6,  "ver" : 1  },  "exportCfg" : {  "permit" : 4,  "ver" : 1  },  "hourFmt" : {  "permit" : 6,  "ver" : 1  },  "http" : {  "permit" : 6,  "ver" : 1  },  "https" : {  "permit" : 6,  "ver" : 1  },  "importCfg" : {  "permit" : 2,  "ver" : 1  },  "ipcManager" : {  "permit" : 6,  "ver" : 1  },  "localLink" : {  "permit" : 6,  "ver" : 1  },  "log" : {  "permit" : 6,  "ver" : 1  },  "mediaPort" : {  "permit" : 6,  "ver" : 1  },  "ntp" : {  "permit" : 6,  "ver" : 1  },  "online" : {  "permit" : 6,  "ver" : 1  },  "onvif" : {  "permit" : 6,  "ver" : 1  },  "p2p" : {  "permit" : 0,  "ver" : 0  },  "performance" : {  "permit" : 4,  "ver" : 1  },  "pppoe" : {  "permit" : 6,  "ver" : 1  },  "push" : {  "permit" : 6,  "ver" : 1  },  "pushSchedule" : {  "permit" : 6,  "ver" : 1  },  "reboot" : {  "permit" : 1,  "ver" : 1  },  "restore" : {  "permit" : 1,  "ver" : 1  },  "rtmp" : {  "permit" : 6,  "ver" : 1  },  "rtsp" : {  "permit" : 6,  "ver" : 1  },  "sdCard" : {  "permit" : 6,  "ver" : 1  },  "talk" : {  "permit" : 0,  "ver" : 0  },  "time" : {  "permit" : 6,  "ver" : 1  },  "tvSystem" : {  "permit" : 6,  "ver" : 1  },  "upgrade" : {  "permit" : 1,  "ver" : 1  },  "upnp" : {  "permit" : 6,  "ver" : 1  },  "user" : {  "permit" : 6,  "ver" : 1  },  "wifi" : {  "permit" : 6,  "ver" : 3  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **Corresponding commands** |
| 3g | "Get3G" " Set3G" |
| autoMaint | "GetAutoMaint" " SetAutoMaint" |
| ddns | "GetDdns" "SetDdns" |
| devInfo | "GetDevInfo" |
| email | "GetEmail" "SetEmail" "TestEmail" |
| exportCfg | "ExportCfg" |
| importCfg | "ImportCfg" |
| localLink | "GetLocalLink" "SetLocalLink" |
| mediaPort | "GetNetPort" "SetNetPort" |
| ntp | "GetNtp" "SetNtp" |
| online | "GetOnline" "Disconnect" |
| p2p | "GetP2p" "SetP2p" |
| performance | "GetPerformance" |
| reboot | "Reboot" |
| restore | "Restore" |
| rtmp | "rtmp=start" "rtmp=stop" "rtmp=auth" |
| sdCard | "GetHddInfo" "Format" |
| time | "GetTime" "SetTime" |
| tvSystem | "GetNorm" "SetNorm" |
| upgrade | "Upgrade" |
| upnp | "GetUpnp" "SetUpnp" |
| user | "GetUser" "AddUser" "DelUser" "ModifyUser" |
| alarmMd | "GetAlarm" "SetAlarm" |
| enc | "SetEnc" "GetEnc" |
| ftp | "SetFtp" "TestFtp" |
| image | "GetImage" "SetImage" |
| isp | "GetIsp" "SetIsp" |
| mask | "GetMask" "SetMask" |
| osd | "GetOsd" "SetOsd" |
| ptzCtrl | "PtzCtrl" |
| ptzPatrol | "GetPtzPatrol" "SetPtzPatrol" |
| ptzPreset | "GetPtzPreset" "SetPtzPreset" |
| recCfg | "SetRec" "GetRec" |
| recDownload | "Search" "Download" |
| snap | " Snap" |

### 3.1.2 GetDevInfo

* **Interface Description**

|  |
| --- |
| It is used to get device information. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetDevInfo&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetDevInfo"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetDevInfo",  "code" : 0,  "value" : {  "DevInfo" : {  "B485" : 0,  "IOInputNum" : 0,  "IOOutputNum" : 0,  "buildDay" : "build 16052755",  "cfgVer" : "v2.0.0.0",  "channelNum" : 1,  "detail" : "IPC\_3816M110000000100000",  "diskNum" : 1,  "firmVer" : "66\_16052755\_v1.0.0.30",  "hardVer" : "IPC\_3816M",  "model" : "RLC-423S",  "name" : "Camera1",  "serial" : "00000000000000",  "type" : "IPC",  "wifi" : 1  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| IOInputNum | The number of IO input port. |
| IOOutputNum | The number of IO output port. |
| buildDay | The establish date. |
| cfgVer | The version number of configuration information. |
| channelNum | The channel number. |
| detail | The details of device information. |
| diskNum | The number of USB disk or SD card. |
| firmVer | The version number of the firmware. |
| hardVer | The version number of the hardware. |
| name | Device name. |
| type | Device type. |
| wifi | Whether Wi-Fi is supported. |

### 3.1.3 GetTime

* **Interface Description**

|  |
| --- |
| It is used to get time from device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetTime&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetTime",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetTime",  "code" : 0,  "initial" : {  "Dst" : {  "enable" : 0,  "endHour" : 2,  "endMin" : 0,  "endMon" : 10,  "endSec" : 0,  "endWeek" : 5,  "endWeekday" : 0,  "offset" : 1,  "startHour" : 2,  "startMin" : 0,  "startMon" : 3,  "startSec" : 0,  "startWeek" : 2,  "startWeekday" : 0  },  "Time" : {  "day" : 1,  "hour" : 0,  "min" : 0,  "mon" : 0,  "sec" : 0,  "timeFmt" : "DD/MM/YYYY",  "timeZone" : 28800,  "year" : 0,  "hourFmt" : 0  }  },  "range" : {  "Dst" : {  "enable" : "boolean",  "endHour" : {  "max" : 23,  "min" : 0  },  "endMin" : {  "max" : 59,  "min" : 0  },  "endMon" : {  "max" : 12,  "min" : 1  },  "endSec" : {  "max" : 59,  "min" : 0  },  "endWeek" : {  "max" : 5,  "min" : 1  },  "endWeekday" : {  "max" : 6,  "min" : 0  },  "offset" : {  "max" : 2,  "min" : 1  },  "startHour" : {  "max" : 23,  "min" : 0  },  "startMin" : {  "max" : 59,  "min" : 0  },  "startMon" : {  "max" : 12,  "min" : 1  },  "startSec" : {  "max" : 59,  "min" : 0  },  "startWeek" : {  "max" : 5,  "min" : 1  },  "startWeekday" : {  "max" : 6,  "min" : 0  }  },  "Time" : {  "day" : {  "max" : 31,  "min" : 1  },  "hour" : {  "max" : 23,  "min" : 0  },  "min" : {  "max" : 59,  "min" : 0  },  "mon" : {  "max" : 12,  "min" : 1  },  "sec" : {  "max" : 59,  "min" : 0  },  "timeFmt" : [ "MM/DD/YYYY", "YYYY/MM/DD", "DD/MM/YYYY" ],  "timeZone" : {  "max" : 43200,  "min" : -46800  },  "year" : {  "max" : 2100,  "min" : 1900  },  "hourFmt" : {  "max" : 1,  "min" : 0  }  }  },  "value" : {  "Dst" : {  "enable" : 1,  "endHour" : 2,  "endMin" : 0,  "endMon" : 10,  "endSec" : 0,  "endWeek" : 5,  "endWeekday" : 0,  "offset" : 1,  "startHour" : 2,  "startMin" : 0,  "startMon" : 3,  "startSec" : 0,  "startWeek" : 2,  "startWeekday" : 0  },  "Time" : {  "day" : 16,  "hour" : 15,  "min" : 24,  "mon" : 6,  "sec" : 47,  "timeFmt" : "MM/DD/YYYY",  "timeZone" : -28800,  "year" : 2016,  "hourFmt" : 0  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| Dst | Daylight Savings Time |
| enable | Enable Daylight Savings Time |
| endHour | The end of Daylight Savings Time(Hour) |
| endMin | The end of Daylight Savings Time(Minute) |
| endMon | The end of Daylight Savings Time(Month) |
| endSec | The end of Daylight Savings Time(Second) |
| endWeek | The end of Daylight Savings Time(Week) |
| endWeekday | The end of Daylight Savings Time(Day) |
| offset | Time offset |
| startHour | Daylight Savings Time starting time(Hour) |
| startMin | Daylight Savings Time starting time(Minute) |
| startMon | Daylight Savings Time starting time(Month) |
| startSec | Daylight Savings Time starting time(Second) |
| startWeek | Daylight Savings Time starting time(Week) |
| startWeekday | Daylight Savings Time starting time(Day) |
| Time | System time |
| year | Year |
| mon | Month |
| day | Day |
| hour | Hour |
| min | Minute |
| sec | Second |
| timeFmt | Time format |
| timeZone | Time zone |
| hourFmt | Hour format,0 is for 24 hour clock，1 is for 12 hour clock |

### 3.1.4 SetTime

* **Interface Description**

|  |
| --- |
| It is used to set time of the device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetTime&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetTime",  "param" : {  "Dst" : {  "enable" : 0,  "endHour" : 2,  "endMin" : 0,  "endMon" : 10,  "endSec" : 0,  "endWeek" : 5,  "endWeekday" : 0,  "offset" : 1,  "startHour" : 2,  "startMin" : 0,  "startMon" : 3,  "startSec" : 0,  "startWeek" : 2,  "startWeekday" : 0  },  "Time" : {  "day" : 6,  "hour" : 20,  "min" : 9,  "mon" : 6,  "sec" : 32,  "timeFmt" : "DD/MM/YYYY",  "timeZone" : -28800,  "year" : 2016,  "hourFmt" : 0  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| Dst | See also GetTime | O |
| enable | See also GetTime | O |
| endHour | See also GetTime | O |
| endMin | See also GetTime | O |
| endMon | See also GetTime | O |
| endSec | See also GetTime | O |
| endWeek | See also GetTime | O |
| endWeekday | See also GetTime | O |
| offset | See also GetTime | O |
| startHour | See also GetTime | O |
| startMin | See also GetTime | O |
| startMon | See also GetTime | O |
| startSec | See also GetTime | O |
| startWeek | See also GetTime | O |
| startWeekday | See also GetTime | O |
| year | See also GetTime | O |
| mon | See also GetTime | O |
| day | See also GetTime | O |
| hour | See also GetTime | O |
| min | See also GetTime | O |
| sec | See also GetTime | O |
| timeFmt | See also GetTime | O |
| timeZone | See also GetTime | O |
| hourFmt | See also GetTime | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetTime",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.5 GetAutoMaint

* **Interface Description**

|  |
| --- |
| It is used to get device automatic maintenance information. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetAutoMaint&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetAutoMaint",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetAutoMaint",  "code" : 0,  "initial" : {  "AutoMaint" : {  "enable" : 1,  "hour" : 2,  "min" : 0,  "sec" : 0,  "weekDay" : "Sunday"  }  },  "range" : {  "AutoMaint" : {  "enable" : "boolean",  "hour" : {  "max" : 23,  "min" : 0  },  "min" : {  "max" : 59,  "min" : 0  },  "sec" : {  "max" : 59,  "min" : 0  },  "weekDay" : [  "Everyday",  "Sunday",  "Monday",  "Tuesday",  "Wednesday",  "Thursday",  "Friday",  "Saturday"  ]  }  },  "value" : {  "AutoMaint" : {  "enable" : 1,  "hour" : 0,  "min" : 0,  "sec" : 1,  "weekDay" : "Thursday"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| enable | Auto maintainance of enable/disable switch |
| hour | Hour |
| min | Minute |
| sec | Second |
| weekDay | The day of the week |

### 3.1.6 SetAutoMaint

* **Interface Description**

|  |
| --- |
| It is used to set device automatic maintenance information. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetAutoMaint&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetAutoMaint",  "param":{  "AutoMaint":{  "enable":1,  "weekDay":"Everyday",  "hour":3,  "min":52,  "sec":4  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| enable | See also GetAutoMaint | O |
| hour | See also GetAutoMaint | O |
| min | See also GetAutoMaint | O |
| sec | See also GetAutoMaint | O |
| weekDay | See also GetAutoMaint | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetAutoMaint",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.7 GetPerformance

* **Interface Description**

|  |
| --- |
| It is used to get device performance. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPerformance&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPerformance"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetPerformance",  "code" : 0,  "value" : {  "Performance" : {  "codecRate" : 812593,  "cpuUsed" : 29,  "netThroughput" : 76  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| codecRate | Bit rate |
| cpuUsed | CPU load |
| netThroughput | Ethernet port throughput |

### 3.1.8 GetHddInfo

* **Interface Description**

|  |
| --- |
| It is used to get hard disks or sd-Card information of device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetHddInfo&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetHddInfo"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetHddInfo",  "code" : 0,  "value" : {  "HddInfo" : [  {  "capacity" : 30571,  "format" : 1,  "id" : 0,  "mount" : 1,  "size" : 8949  }  ]  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| capacity | The capacity of HDD or SD card(Mb) |
| format | Whether it is formatted or not |
| id | Index for HDD or SD card |
| mount | Whether it is mounted or not |
| size | The remaining capacity (Mb) |

### 3.1.9 Format

* **Interface Description**

|  |
| --- |
| It is used to format hard disks or SD-Card. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Format&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Format",  "param":{  "HddInfo":{  " id":[  0  ]  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| id | Index of the hard disk or sd-Card that you want to format. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Format",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.10 Upgrade

* **Interface Description**

|  |
| --- |
| It is used to upgrade the firmware of the device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Upgrade&clearConfig=%d&token=TOKEN |

* **Request parameter description**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **M/O** | **Description** |
| clearConfig | M | Whether to clear the configuration mark |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryYkwJBwvTHAd3Nukl  Referer: http://192.168.2.232/?1466148584152  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  ------WebKitFormBoundaryYkwJBwvTHAd3Nukl  Content-Disposition: form-data; name="upgrade-package"; filename="xxx.pak"  Content-Type: application/octet-stream  xxxxxxxxxxx......(File content)  ------WebKitFormBoundaryYkwJBwvTHAd3Nukl-- | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| boundary | Delimiter | M |
| filename | The name of the update file | M |
| name | Bound to be "upgrade-package" | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Upgrade",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.11 ExportCfg

* **Interface Description**

|  |
| --- |
| It is used to export configuration files of the device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=ExportCfg&token=TOKEN |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| CONTENT\_TYPE=application/oct-stream:  Content-Disposition: attachment;filename="config.tgz"  +xxxxxxxxxxxx.....(File content) | |
| **Field description** | |
| **Field** | **description** |
| filename | The name of the exported file |

### 3.1.12 ImportCfg

* **Interface Description**

|  |
| --- |
| It is used to import configuration files into the device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=ImportCfg&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryAtLgQgti6s8VC7TD  Referer: http://192.168.2.232/  Accept-Encoding: gzip, deflate  Accept-Language: zh-CN,zh;q=0.8  ------WebKitFormBoundaryAtLgQgti6s8VC7TD  Content-Disposition: form-data; name="config-file"; filename="xxx.tgz"  Content-Type: application/gzip  xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx.....(File content）  ------WebKitFormBoundaryAtLgQgti6s8VC7TD-- | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| boundary | Delimiter | M |
| name | Bound to be "config-file" | M |
| filename | The file name of the imported file | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "ImportCfg",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.13 Restore

* **Interface Description**

|  |
| --- |
| It is used to reset all configurations of the device to the factory default. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Restore&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Restore"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Restore",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.14 Reboot

* **Interface Description**

|  |
| --- |
| It is used to reboot the device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Reboot&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Reboot"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Reboot",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.15 UpgradePrepare

* **Interface Description**

|  |
| --- |
| UpgradePrepare |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/ api.cgi?cmd=UpgradePrepare&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"UpgradePrepare",  "action":1,  "param":  {  "restoreCfg":0,  "fileName":"XXX.pak"  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " UpgratePrepare ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.16 Shutdown

* **Interface Description**

|  |
| --- |
| It is used to Shutdown the device. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/ api.cgi?cmd=Shutdown&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Shutdown",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " Shutdown",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.17 HeartBeat

* **Interface Description**

|  |
| --- |
| HeartBeat |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/ api.cgi?cmd=HeartBeat&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"HeartBeat",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " HeartBeat",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.1.18 GetAutoUpgrade

* **Interface Description**

|  |
| --- |
| GetAutoUpgrade |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= GetAutoUpgrade&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetAutoUpgrade"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetAutoUpgrade",  "code" : 0,  "value" : {  "AutoUpgrade" : {  “enable”:0  }  "initial" : {  " AutoUpgrade " : {  “enable”:0  }  "range" : {  " AutoUpgrade " : {  “enable”:”boolean”  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.1.19 SetAutoUpgrade

* **Interface Description**

|  |
| --- |
| SetAutoUpgrade |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetAutoUpgrade &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetAutoUpgrade ",  “AutoUpgrade”:{  “enable”:0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetAutoUpgrade ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.1.20 CheckFirmware

* **Interface Description**

|  |
| --- |
| CheckFirmware |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= CheckFirmware&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" CheckFirmware"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " CheckFirmware",  "code" : 0,  "value" : {  "newFirmware" : 00  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.1.21 UpgradeOnline

* **Interface Description**

|  |
| --- |
| UpgradeOnline |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= UpgradeOnline &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" UpgradeOnline ",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " UpgradeOnline ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.1.22 UpgradeStatus

* **Interface Description**

|  |
| --- |
| UpgradeStatus |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= UpgradeStatus &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" UpgradeStatus "  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " UpgradeStatus ",  "code" : 0,  "value" : {  " Status " : {  “Persent”:0  "code":0  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.1.23 GetLog

* **Interface Description**

|  |
| --- |
| GetLog |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= GetLog&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetLog",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetLog",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.1.24 DelLog

* **Interface Description**

|  |
| --- |
| DelLog |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= DelLog&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" DelLog"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " DelLog ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.2 Security

### 3.2.1 Login

* **Interface Description**

|  |
| --- |
| It is used to get Token. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Login |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Login",  "param":{  "User":{  "userName":"admin",  "password":""  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| userName | Account name, limit 1~31 characters. | M |
| password | Account password, limit 1~31 characters. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Login",  "code" : 0,  "value" : {  "Token" : {  "leaseTime" : 3600,  "name" : "031465962723"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| leaseTime | Lease time by second. |
| name | Token string, length should be less than 32 characters. |

### 3.2.2 Logout

* **Interface Description**

|  |
| --- |
| It is used to release Token. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Logout&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Logout",  "param":{  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Logout",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.2.3 GetUser

* **Interface Description**

|  |
| --- |
| It is used to get all users' infomation. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetUser&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetUser",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetUser",  "code" : 0,  "initial" : {  "User" : {  "level" : "guest"  }  },  "range" : {  "User" : {  "level" : [ "guest", "admin" ],  "password" : {  "maxLen" : 16,  "minLen" : 6  },  "userName" : {  "maxLen" : 31,  "minLen" : 1  }  }  },  "value" : {  "User" : [  {  "level" : "admin",  "userName" : "admin"  }  ],  ... // There may be multiple users  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| level | User competence |
| userName | User name |

### 3.2.4 AddUser

* **Interface Description**

|  |
| --- |
| It is used to set configuration of user. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=AddUser&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"AddUser",  "param":{  "User":{  "userName":"GuestUser",  "password":"123456",  "level":"guest"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| userName | Account name. | M |
| password | Account password. | M |
| level | User competence | M |
| Note : Can add up to 20 users | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "AddUser",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.2.5 DelUser

* **Interface Description**

|  |
| --- |
| It is used to del configuration of user. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=DelUser&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"DelUser",  "param":{  "User":{  "userName":"TestUser"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| userName | Account name,limit 1~31 characters. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "DelUser",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.2.6 ModifyUser

* **Interface Description**

|  |
| --- |
| It is used to modify configuration of user. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=ModifyUser&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"ModifyUser",  "param":{  "User":{  "userName":"TestUser",  "password":"123456"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| userName | Account name. | M |
| password | Account password. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "ModifyUser",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.2.7 GetOnline

* **Interface Description**

|  |
| --- |
| It is used to get all onlusers' infomation. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetOnline&token=TOKEN |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd":"GetOnline",  "code":0,  "value":{  "User":[  {  "canbeDisconn":0,  "ip":"192.168.2.166",  "level":"admin",  "sessionId":1000,  "userName":"admin"  },  ... // There may be multiple online users.  ]  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| canbeDisconn | When the field value is 1, the online user can be forced to disconnect.When the value is 0, the reverse is the case. |
| ip | The IP address of the online user. |
| level | User competence for online users |
| sessionId | Session id distributed to online users by the system, it is used to force the user to go offline. |
| userName | The online user’s login account. |

### 3.2.8 Disconnect

* **Interface Description**

|  |
| --- |
| It is used to disconnect configuration of user. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Disconnect&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Disconnect",  "param":{  "User":{  "userName":"userName"，  "sessionId":1001  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| userName | The online user’s login account. | M |
| sessionId | The session ID which System assigned to the online user. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Disconnect",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.2.9 GetAuth

* **Interface Description**

|  |
| --- |
| get user auth |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= GetAuth &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetAuth ",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetAuth ",  "code" : 0,  "value" :  {  “enable”:  {  “enable”:1  }  }  “initial”:  {  “enable”:  {  “enable”:1  }  }  “range”:  {  “enable”:  {  “enable”:”boolean”  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.2.10 SetAuth

* **Interface Description**

|  |
| --- |
| Set user auth |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetAuth &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetAuth ",  “Auth”:  {  “enable”:1  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetAuth ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.3 Network

### 3.3.1 GetLocalLink

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Local Link. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetLocalLink&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetLocalLink",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetLocalLink",  "code" : 0,  "initial" : {  "LocalLink" : {  "dns" : {  "auto" : 1,  "dns1" : "192.168.0.1",  "dns2" : "192.168.0.1"  },  "mac" : "EC:71:DB:2F:A7:93",  "static" : {  "gateway" : "192.168.0.1",  "ip" : "192.168.0.100",  "mask" : "255.255.255.0"  },  "type" : "DHCP"  }  },  "range" : {  "LocalLink" : {  "dns" : {  "auto" : "boolean",  "dns1" : {  "maxLen" : 15  },  "dns2" : {  "maxLen" : 15  }  },  "static" : {  "gateway" : {  "maxLen" : 15  },  "ip" : {  "maxLen" : 15  },  "mask" : {  "maxLen" : 15  }  },  "type" : [ "DHCP", "Static" ]  }  },  "value" : {  "LocalLink" : {  "activeLink" : "LAN",  "dns" : {  "auto" : 1,  "dns1" : "202.96.128.166",  "dns2" : "202.96.134.133"  },  "mac" : "EC:71:DB:2F:A7:93",  "static" : {  "gateway" : "192.168.2.1",  "ip" : "192.168.2.122",  "mask" : "255.255.255.0"  },  "type" : "DHCP"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| activeLink | Network connection type [LAN, Wi-Fi] |
| mac |  |
| type |  |
| Static->ip | Ip address |
| Static->gateway | Gateway address |
| Static->mask | Subnet mask |
| Dns->auto |  |
| Dns->dns1 | Preferred DNS Server. |
| Dns->dns2 | Alternate DNS server. |

### 3.3.2 SetLocalLink

* **Interface Description**

|  |
| --- |
| It is used to set configuration of LocalLink. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetLocalLink&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetLocalLink",  "action":0,  "param":{  "LocalLink":{  "type":"Static",  "static":{  "ip":"192.168.2.122",  "mask":"255.255.255.0",  "gateway":"192.168.2.1"  },  "dns":{  "auto":0,  "dns1":"202.96.128.166",  "dns2":"202.96.134.133"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| type |  | O |
| Static->ip | Ip address | O |
| Static->gateway | Gateway address | O |
| Static->mask | Subnet mask | O |
| Dns->auto |  | O |
| Dns->dns1 | Preferred DNS Server. | O |
| Dns->dns2 | Alternate DNS server. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetLocalLink",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.3 GetDdns

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Email. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetDdns&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetDdns",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetDdns",  "code" : 0,  "initial" : {  "Ddns" : {  "domain" : "",  "enable" : 0,  "password" : "",  "type" : "3322",  "userName" : ""  }  },  "range" : {  "Ddns" : {  "domain" : {  "maxLen" : 127  },  "enable" : "boolean",  "password" : {  "maxLen" : 31  },  "type" : [ "3322", "Dyndns" ],  "userName" : {  "maxLen" : 127  }  }  },  "value" : {  "Ddns" : {  "domain" : "domain",  "enable" : 1,  "password" : "password",  "type" : "Dyndns",  "userName" : "username"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| domain | The domain which you set. |
| enable | Ddns enable switch. |
| type | Ddns Server type.Range of value is ["3322", "Dyndns"]. |
| userName | Ddns userName. |
| password | Ddns password. |

### 3.3.4 SetDdns

* **Interface Description**

|  |
| --- |
| It is used to set configuration of DDNS. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetDdns&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetDdns",  "param":{  "Ddns":{  "enable":1,  "type":"dyndns",  "userName":"username",  "password":"password",  "domain":"domain"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| domain | The domain which you set. | O |
| enable | Ddns enable switch. | O |
| type | Ddns Server type.Range of value is ["3322", "Dyndns"]. | O |
| userName | Ddns userName. | O |
| password | Ddns password. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetEmail",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.5 GetEmail

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Email. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetEmail&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetEmail",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetEmail",  "code" : 0,  "initial" : {  "Email" : {  "addr1" : "",  "addr2" : "",  "addr3" : "",  "attachment" : "picture",  "interval" : "30 Seconds",  "password" : "",  "smtpPort" : 465,  "smtpServer" : "smtp.gmail.com",  "ssl" : 1,  "userName" : "",  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  },  "range" : {  "Email" : {  "addr1" : {  "maxLen" : 127  },  "addr2" : {  "maxLen" : 127  },  "addr3" : {  "maxLen" : 127  },  "attachment" : [ "O", "picture", "video", "onlyPicture" ],  "interval" : [ "30 Seconds", "1 Minute", "5 Minutes", "10 Minutes" ],  "password" : {  "maxLen" : 31  },  "smtpPort" : {  "max" : 65535,  "min" : 1  },  "smtpServer" : {  "maxLen" : 127  },  "ssl" : "boolean",  "userName" : {  "maxLen" : 127  },  "schedule" : {  "enable" : "boolean",  "table" : {  "maxLen" : 168,  "minLen" : 168  }  }  }  },  "value" : {  "Email" : {  "addr1" : "xxx@sz-bcs.com.cn",  "addr2" : "",  "addr3" : "",  "attachment" : "video",  "interval" : "5 Minutes",  "password" : "xxxxxx",  "smtpPort" : 25,  "smtpServer" : "smtp.exmail.qq.com",  "ssl" : 0,  "userName" : ["xxx@sz-bcs.com.cn",](mailto:%22xxx@sz-bcs.com.cn%22,)  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| smtpServer | Email server of sender,at most 127 characters. |
| smtpPort | Port of Email server,limit 1~65535. |
| userName | Sender address,at most 127 characters. |
| password | Sender password,at most 31 characters. |
| attachment | The type of email attachment. |
| Ssl | Whether to open the encryption mode,the type of ssl is Boolean. |
| interval | Send mail interval. |
| addr1 | Recver address1, at most 127 characters. |
| addr2 | Recver address2, at most 127 characters. |
| addr3 | Recver address3, at most 127 characters. |
| Schedule->enable |  |
| Schedule->table |  |

### 3.3.6 SetEmail

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Email. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetEmail&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetEmail",  "param":{  "Email":{  "smtpServer":"smtp.exmail.qq.com",  "smtpPort":25,  "userName":"xxx@sz-bcs.com.cn",  "password":"xxxxxx",  "attachment":"video",  "ssl":0,  "interval":"5 Minutes",  "addr1":"xxx@sz-bcs.com.cn",  "addr2":"xxx@sz-bcs.com.cn",  "addr3":"xxx@sz-bcs.com.cn",  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| smtpServer | Email server of sender, at most 127 characters. | O |
| smtpPort | Port of Email server, limit 1~65535. | O |
| userName | Sender address, at most 127 characters. | O |
| password | Sender password, at most 31 characters. | O |
| attachment | The type of email attachment. Range of value is ["O", "picture", "video", "onlyPicture"]. | O |
| Ssl | Whether to open the encryption mode, the type of ssl is Boolean. | O |
| interval | Send mail interval. Range of value is ["30 Seconds", "1 Minute", "5 Minutes", "10 Minutes"]. | O |
| addr1 | Recver address1,at most 127 characters. | O |
| addr2 | Recver address2,at most 127 characters. | O |
| addr3 | Recver address3,at most 127 characters. | O |
| Schedule->enable |  | O |
| Schedule->table |  | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetEmail",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.7 GetFtp

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Ftp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetFtp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetFtp",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetFtp",  "code" : 0,  "initial" : {  "Ftp" : {  "aOnymous" : 0,  "maxSize" : 100,  "password" : "",  "port" : 21,  "remoteDir" : "",  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  },  "server" : "",  "userName" : "",  "streamType":0,  "interval":30  }  },  "range" : {  "Ftp" : {  "aOnymous" : "boolean",  "maxSize" : {  "max" : 1024,  "min" : 10  },  "password" : {  "maxLen" : 31  },  "port" : {  "max" : 65535,  "min" : 1  },  "remoteDir" : {  "maxLen" : 255  },  "schedule" : {  "enable" : "boolean",  "table" : {  "maxLen" : 168,  "minLen" : 168  }  },  "server" : {  "maxLen" : 127  },  "userName" : {  "maxLen" : 31  },  "streamType" : {  "max" : 1,  "min" : 0  },  "interval" : {  "max" : 3600,  "min" : 1  }  }  },  "value" : {  "Ftp" : {  "aOnymous" : 0,  "maxSize" : 1000,  "password" : "11111111",  "port" : 21,  "remoteDir" : "0516",  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  },  "server" : "192.168.2.146",  "userName" : "jhx"，  "streamType":0,  "interval":30  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| initial | The initial value of the Ftp field. |
| range | The range of the Ftp field. |
| value | The real value of the Ftp field. |
| server | FTP server, can fill in the IP address or domain name.  At most 127 characters. |
| port | Port of FTP Server, Limit 1~65535. |
| aOnymous |  |
| userName | FTP account name. |
| password | FTP account password. |
| remoteDir | FTP root directory. |
| maxSize | Maximum size of FTP file. |
| streamType | The types of the uploading files. 0 is for uploading both pictures and videos, and 1 is for uploading pictures only. |
| interval | When streamType=0, interval stands for the time of post record, the range is between 30 to 1800 seconds.  When streamType=1, interval stands for the time interval, the range is between 1 to 1800 seconds. |
| Schedule->enable |  |
| Schedule->table |  |

### 3.3.8 SetFtp

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Ftp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetFtp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetFtp",  "param":{  "Ftp":{  "server":"pool.ftp.org",  "port":21,  "aOnymous":0,  "userName":"name",  "password":"password",  "remoteDir":"Dir",  "maxSize":20,  "streamType":0,  "interval":30,  "schedule":{  "enable":1,  "table":"111111111111111"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| server | FTP server, can fill in the IP address or domain name. | O |
| port | Port of FTP Server. | O |
| aOnymous |  | O |
| userName  (Depend on aOnymous) | FTP account name. When the value of aOnymous is 0, the user Name field is necessary. | O |
| Password  (Depend on aOnymous) | FTP account password. FTP account name. When the value of aOnymous is 0, the password field is necessary. | O |
| remoteDir | FTP root directory. | O |
| maxSize | Maximum size of FTP file. | O |
| streamType | The type of the uploading files. 0 is for uploading both pictures and videos, and 1 is for uploading pictures only. | O |
| interval | When streamType=0, interval stands for the time of post record, the range is between 30 to 1800 seconds.  When streamType=1, interval stands for the time interval, the range is between 1 to 1800 seconds. | O |
| Schedule->enable |  | O |
| Schedule->table |  | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetFtp",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.9 GetNtp

* **Interface Description**

|  |
| --- |
| It is used to get configuration of NTP. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetNtp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetNtp",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetNtp",  "code" : 0,  "initial" : {  "Ntp" : {  "enable" : 1,  "interval" : 1440,  "port" : 123,  "server" : "pool.ntp.org"  }  },  "range" : {  "Ntp" : {  "interval" : {  "max" : 65535,  "min" : 60  },  "port" : {  "max" : 65535,  "min" : 1  },  "server" : {  "maxLen" : 127  }  }  },  "value" : {  "Ntp" : {  "enable" : 1,  "interval" : 1440,  "port" : 123,  "server" : "pool.ntp.org"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| enable | NTP switch, The value of 1 represents the open, and the 0 is the opposite. |
| server | NTP server, can fill in the IP address or domain name. |
| port | Port of NTP Server. |
| interval | Time synchronization interval. Limit 10~65535, and 0 on behalf of the immediate synchronization. |

### 3.3.10 SetNtp

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Set Ntp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetNtp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetNtp",  "param":{  "Ntp":{  "enable":1,  "server":"pool.ntp.org",  "port":123,  "interval":1440  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| enable | NTP switch, The value of 1 represents the open, and the 0 is the opposite. | O |
| server | NTP server, can fill in the IP address or domain name. | O |
| port | Port of NTP Server . | O |
| interval | Time synchronization interval. Limit 10~65535,and 0 on behalf of the immediate synchronization. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetNtp",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.11 GetNetPort

* **Interface Description**

|  |
| --- |
| It is used to get configuration of NetPort. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetNetPort&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetNetPort",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetNetPort",  "code" : 0,  "initial" : {  "NetPort" : {  "httpPort" : 80,  "httpsPort" : 443,  "mediaPort" : 9000,  "onvifPort" : 8000,  "rtmpPort" : 1935,  "rtspPort" : 554  }  },  "range" : {  "NetPort" : {  "httpPort" : {  "max" : 65535,  "min" : 1  },  "httpsPort" : {  "max" : 65535,  "min" : 1  },  "mediaPort" : {  "max" : 65535,  "min" : 1  },  "onvifPort" : {  "max" : 65535,  "min" : 1  },  "rtmpPort" : {  "max" : 65535,  "min" : 1  },  "rtspPort" : {  "max" : 65535,  "min" : 1  }  }  },  "value" : {  "NetPort" : {  "httpPort" : 80,  "httpsPort" : 445,  "mediaPort" : 9000,  "onvifPort" : 8000,  "rtmpPort" : 1935,  "rtspPort" : 555  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| httpPort | Port of http. |
| httpsPort | Port of https. |
| mediaPort | Port of media. |
| onvifPort | Port of onvif. |
| rtspPort | Port of rtsp. |
| rtmpPort | Port of rtmp. |

### 3.3.12 SetNetPort

* **Interface Description**

|  |
| --- |
| It is used to set configuration of NetPort. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetNetPort&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetNetPort",  "param":{  "NetPort":{  "httpPort":80,  "httpsPort":445,  "mediaPort":9000,  "onvifPort":8000,  "rtmpPort" : 1935,  "rtspPort":555  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| httpPort | Port of http. | O |
| httpsPort | Port of https. | O |
| mediaPort | Port of media. | O |
| onvifPort | Port of onvif. | O |
| rtspPort | Port of rtsp. | O |
| rtmpPort | Port of rtmp. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetNetPort",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.13 TestFtp

* **Interface Description**

|  |
| --- |
| It is used to set configuration of TestFtp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=TestFtp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"TestFtp",  "param":{  "Ftp":{  "server":"pool.ftp.org",  "port":21,  "aOnymous":0,  "userName":"name",  "password":"password",  "remoteDir":"Dir"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| server | FTP server, can fill in the IP address or domain name.  At most 127 characters. | M |
| port | Port of FTP Server ,Limit 1~65535. | M |
| aOnymous |  | M |
| userName  (Depend on aOnymous) | FTP account name. FTP account password. FTP account name. When the value of aOnymous is 0, the userName field is necessary. | O |
| Password  (Depend on aOnymous) | FTP account password. FTP account password. FTP account name. When the value of aOnymous is 0, the password field is necessary. | O |
| remoteDir | FTP root directory. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "TestFtp",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.14 GetUpnp

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Upnp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetUpnp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetUpnp",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetUpnp",  "code" : 0,  "initial" : {  "Upnp" : {  "enable" : 1  }  },  "range" : {  "Upnp" : {  "enable" : "boolean"  }  },  "value" : {  "Upnp" : {  "enable" : 1  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| enable | Upnp switch,The value of 1 represents the open, and the 0 is the opposite. |

### 3.3.15 SetUpnp

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Upnp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetUpnp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetDdns",  "param":{  "Upnp":{  "enable":1  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| enable | Upnp switch, The value of 1 represents the open, and the 0 is the opposite. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetUpnp",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.16 GetWifi

* **Interface Description**

|  |
| --- |
| It is used to get configuration of GetWifi. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetWifi&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetWifi",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetWifi",  "code" : 0,  "initial" : {  "Wifi" : {  "password" : "",  "ssid" : ""  }  },  "range" : {  "Wifi" : {  "password" : {  "maxLen" : 127  },  "ssid" : {  "maxLen" : 127  }  }  },  "value" : {  "Wifi" : {  "password" : "123456",  "ssid" : "ssid"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| ssid |  |
| password |  |

### 3.3.17 SetWifi

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Wifi. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetWifi&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetWifi",  "param":{  "Wifi":{  "ssid" : "ssid"  "password" : "password"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| ssid | The name of the wireless network | O |
| password | The password of the wireless network | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetWifi",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.18 ScanWifi

* **Interface Description**

|  |
| --- |
| It is used to get configuration of ScanWifi. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=ScanWifi&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"ScanWifi",  "param":{  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "ScanWifi",  "code" : 0,  "value" : {  "Wifi" : [  {  "signal" : 4,  "ssid" : "TP-LINK\_123456"  “bencrypt” 1,  },  ... // There may be multiple wireless networks.  ]  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| signal | Wireless signal strength  (1 : signal <= -60)  (2 : signal <= -50)  (3 : signal <= -40)  (4 : signal > -40)  100:有线设备 |
| ssid | The name of wireless network |

### 3.3.19 TestWifi

* **Interface Description**

|  |
| --- |
| It is used to set configuration of TestWifi. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=TestWifi&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"TestWifi",  "param":{  "Wifi":{  "ssid" : "ssid"  "password" : "password"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| ssid | The name of the wireless network | M |
| password | The password of the wireless network | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "TestWifi",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.20 TestEmail

* **Interface Description**

|  |
| --- |
| It is used to set configuration of TestEmail. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=TestEmail&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"TestEmail",  "param":{  "Email":{  "smtpServer":"smtp.exmail.qq.com",  "smtpPort":25,  "userName":"xxx@sz-bcs.com.cn",  "password":"xxxxxx",  "attachment":"video",  "ssl":0,  "interval":"5 Minutes",  "addr1":"xxx@sz-bcs.com.cn",  "addr2":"xxx@sz-bcs.com.cn",  "addr3":"xxx@sz-bcs.com.cn"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| smtpServer | Email server of sender, at most 127 characters. | M |
| smtpPort | Port of Email server, limit 1~65535. | M |
| userName | Sender address, at most 127 characters. | M |
| password | Sender password, at most 31 characters. | O |
| ssl | Whether to open the encryption mode, the type of ssl is Boolean. | M |
| addr1 | Recver address1, at most 127 characters. | O |
| addr2 | Recver address2, at most 127 characters. | O |
| addr3 | Recver address3, at most 127 characters. | O |
| Note: At least one of the three addresses (addr1,addr2,addr3) is completed. | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "TestEmail",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.21 GetPush

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Push. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPush&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPush",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetPush",  "code" : 0,  "initial" : {  "Push" : {  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  },  "range" : {  "Push" : {  "schedule" : {  "enable" : "boolean",  "table" : {  "maxLen" : 168,  "minLen" : 168  }  }  }  },  "value" : {  "Push" : {  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| Schedule->enable |  |
| Schedule->table |  |

### 3.3.22 SetPush

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Push. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetPush&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetPush",  "param":{  "Push":{  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| Schedule->enable |  | O |
| Schedule->table |  | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetEmail",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.23 GetCloud

* **Interface Description**

|  |
| --- |
| Get cloud |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= GetCloud &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetCloud ",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetCloud",  "code" : 0,  "value" : {  "Cloud" : {  “detail”: “network timeout."  “RspCode”:0  “Login”:1  “UserName”:”username”  “data”:{  “account”:”account”  “uid”:0000  “avatar”:”avatar”  “createTime”:0000  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.24 SetCloud

* **Interface Description**

|  |
| --- |
| Set cloud |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetCloud &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetCloud ",  “Cloud”:{  “sign”:0  “userName”:”username”  “password”:”password”  capth”:”capth”  “capthid”:”capthid”  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetWifi",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.25 GetCloudSchedule

* **Interface Description**

|  |
| --- |
| Get Cloud Schedule |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= GetCloudSchedule&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetCloudSchedule",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetCloudSchedule",  "code" : 0,  "value" : {  "Cloud" : {  “schedule”:{  “table”: 0  “enable”:0  }  }  "initial" : {  "Cloud" : {  “schedule”:{  “table”: 0  “enable”:0  }  }  "range" : {  "Cloud" : {  “schedule”:{  “table”: “boolean”  “enable”:0  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.26 SetCloudSchedule

* **Interface Description**

|  |
| --- |
| SetCloudSchedule |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetCloudSchedule&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetCloudSchedule",  “Cloud”:{  “schedule”:{  “enable”:0  “table”:”table”  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetCloudSchedule ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.27 Get3G

* **Interface Description**

|  |
| --- |
| Get 3G information |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= Get3G &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" Get3G "  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " Get3G ",  "code" : 0,  "value" : {  "3G" : {  “autoApn”:0  “phone”: 0  “apn”:”apn”  “userName”:”username”  “password”:”password”  }  "initial" : {  "3G" : {  “autoApn”:0  “phone”: 0  “apn”:”apn”  “userName”:”username”  “password”:”password”  }  "range" : {  "3G" : {  “autoApn”:”boolean”  “phone”: 0  “apn”:”apn”  “userName”:”username”  “password”:”password”  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.28 Set3G

* **Interface Description**

|  |
| --- |
| Set3G |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= Set3G &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" Set3G ",  “3G”:{  “autoApn”:0  “apn”  “userName”:” userName”  “password”:”password”  “phone”:”phone”  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetCloudSchedule ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.29 GetP2p

* **Interface Description**

|  |
| --- |
| Get tP2pinformation |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= GetP2p&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" GetP2p"  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetP2p",  "code" : 0,  "value" : {  "P2P" : {  “enable”:0  “uid”: ”uid”  }  "initial" : {  "P2P" : {  “enable”:0  }  "range" : {  "P2P" : {  “enable”:”boolean”  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.3.30 SetP2P

* **Interface Description**

|  |
| --- |
| SetP2P |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetP2P &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetP2P ",  “P2P”:{  “enable”:0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetP2P ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.4 Video input

### 3.4.1 GetNorm

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Norm. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetNorm&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetNorm",  "action":1  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetNorm",  "code" : 0,  "initial" : {  "Norm" : "NTSC"  },  "range" : {  "Norm" : [ "PAL", "NTSC" ]  },  "value" : {  "Norm" : "NTSC"  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.4.2 SetNorm

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Norm. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetNorm&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetNorm",  "param":{  "Norm":"NTSC"  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| Norm |  | M |
| Note : After changing the Norm , the system will reboot. | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetNorm",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.4.3 GetImage

* **Interface Description**

|  |
| --- |
| It is used to get configuration of image. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetImage&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetImage",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetImage",  "code" : 0,  "initial" : {  "Image" : {  "bright" : 128,  "channel" : 0,  "contrast" : 128,  "hue" : 128,  "saturation" : 128,  "sharpen" : 128  }  },  "range" : {  "Image" : {  "bright" : {  "max" : 255,  "min" : 0  },  "channel" : 0,  "contrast" : {  "max" : 255,  "min" : 0  },  "hue" : {  "max" : 255,  "min" : 0  },  "saturation" : {  "max" : 255,  "min" : 0  },  "sharpen" : {  "max" : 255,  "min" : 0  }  }  },  "value" : {  "Image" : {  "bright" : 150,  "channel" : 0,  "contrast" : 150,  "hue" : 150,  "saturation" : 150,  "sharpen" : 150  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| bright | Bright of video. |
| contrast | Contrast of video. |
| saturation | Saturation of video. |
| hue | Hue of video. |
| sharpen | Sharpen of video. |

### 3.4.4 SetImage

* **Interface Description**

|  |
| --- |
| It is used to set configuration of image. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetImage&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetImage",  "param":{  "Image":{  "channel":0,  "bright":150,  "contrast":150,  "saturation":150,  "hue":150,  "sharpen":150  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| bright | Bright of video. | M |
| contrast | Contrast of video. | M |
| saturation | Saturation of video. | M |
| hue | Hue of video. | M |
| sharpen | Sharpen of video. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetImage",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.4.5 GetOsd

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Osd. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetOsd&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetOsd",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetOsd",  "code" : 0,  "initial" : {  "Osd" : {  "channel" : 0,  "osdChannel" : {  "enable" : 1,  "name" : "Camera1",  "pos" : "Lower Right"  },  "osdTime" : {  "enable" : 1,  "pos" : "Top Center"  }  }  },  "range" : {  "Osd" : {  "channel" : 0,  "osdChannel" : {  "enable" : "boolean",  "name" : {  "maxLen" : 31  },  "pos" : [  "Upper Left",  "Top Center",  "Upper Right",  "Lower Left",  "Bottom Center",  "Lower Right"  ]  },  "osdTime" : {  "enable" : "boolean",  "pos" : [  "Upper Left",  "Top Center",  "Upper Right",  "Lower Left",  "Bottom Center",  "Lower Right"  ]  }  }  },  "value" : {  "Osd" : {  "channel" : 0,  "osdChannel" : {  "enable" : 1,  "name" : "Camera100",  "pos" : "Bottom Center"  },  "osdTime" : {  "enable" : 1,  "pos" : "Top Center"  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| osdChannel->enable | Camera name display switch. |
| osdChannel->name | Camera name |
| osdChannel->pos | Camera name display position. |
| osdTime->enable | Camera time display switch. |
| osdTime->pos | Camera time display position. |

### 3.4.6 SetOsd

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Osd. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetOsd&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetOsd",  "param":{  "Osd":{  "channel":0,  "osdChannel":{  "enable":1,  "name":"Camera100",  "pos":"Bottom Center"  },  "osdTime":{  "enable":1,  "pos":"Top Center"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| osdChannel->enable | Camera name display switch. | M |
| osdChannel->name | Camera name | M |
| osdChannel->pos | Camera name display position. | M |
| osdTime->enable | Camera time display switch. | M |
| osdTime->pos | Camera time display position. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetOsd",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.4.7 GetIsp

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Isp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetIsp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetIsp",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetIsp",  "code" : 0,  "initial" : {  "Isp" : {  "antiFlicker" : "Off",  "backLight" : "Off",  "blc" : 128,  "blueGain" : 128,  "channel" : 0,  "dayNight" : "Auto",  "drc" : 128,  "exposure" : "Auto",  "gain" : {  "max" : 62,  "min" : 1  },  "mirroring" : 0,  "nr3d" : 1,  "redGain" : 128,  "rotation" : 0,  "shutter" : {  "max" : 125,  "min" : 0  },  "whiteBalance" : "Auto"  }  },  "range" : {  "Isp" : {  "antiFlicker" : [ "Outdoor", "50HZ", "60HZ", "Off" ],  "backLight" : [ "Off", "BackLightControl", "DynamicRangeControl" ],  "blc" : {  "max" : 255,  "min" : 0  },  "blueGain" : {  "max" : 255,  "min" : 0  },  "channel" : 0,  "dayNight" : [ "Auto", "Color", "Black&White" ],  "drc" : {  "max" : 255,  "min" : 0  },  "exposure" : [ "Auto", "LowOise", "Anti-Smearing", "Manual" ],  "gain" : {  "max" : 100,  "min" : 1  },  "mirroring" : "boolean",  "nr3d" : "boolean",  "redGain" : {  "max" : 255,  "min" : 0  },  "rotation" : "boolean",  "shutter" : {  "max" : 125,  "min" : 0  },  "whiteBalance" : [ "Auto", "Manual" ]  }  },  "value" : {  "Isp" : {  "antiFlicker" : "Off",  "backLight" : "Off",  "blc" : 128,  "blueGain" : 128,  "channel" : 0,  "dayNight" : "Auto",  "drc" : 128,  "exposure" : "Auto",  "gain" : {  "max" : 62,  "min" : 1  },  "mirroring" : 0,  "nr3d" : 1,  "redGain" : 128,  "rotation" : 0,  "shutter" : {  "max" : 125,  "min" : 0  },  "whiteBalance" : "Auto"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| antiFlicker | Flicker prevention,[ "Outdoor", "50HZ", "60HZ", "Off" ] |
| exposure | Exposure mode,  [ "Auto", "LowOise", "Anti-Smearing", "Manual" ] |
| gain  (Depend on exposure) | When the value of exposure is LowOise or Manual, the gain field is effective. |
| shutter  (Depend on exposure) | When the value of exposure is Anti-Smearing or Manual, the shutter field is effective. |
| whiteBalance | White Balance,[ "Auto", "Manual" ] |
| blueGain  (Depend on whiteBalance) | When the value of whiteBalance is Anti-Smearing or Manual, the blueGain field is effective. |
| redGain  (Depend on whiteBalance) | When the value of whiteBalance is Anti-Smearing or Manual, the redGain field is effective. |
| dayNight | Day&Night,[ "Auto", "Color", "Black&White" ] |
| backLight | Backlight compensation,  [ "Off", "BackLightControl", "DynamicRangeControl" ] |
| Blc  (Depend on backLight) | When the value of backLight is BackLightControl, the blc field is effective. |
| Drc  (Depend on backLight) | When the value of backLight is DynamicRangeControl, the drc field is effective. |
| nr3d |  |
| mirroring | Video mirroring. |
| rotation | Video rotation. |

### 3.4.8 SetIsp

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Isp. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetIsp&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetIsp",  "action":1,  "param":{  "Isp":{  "channel":0,  "antiFlicker":"Off",  "backLight":"Off",  "blc":128,  "blueGain":128,  "dayNight":"Auto",  "drc":128,  "exposure":"Auto",  "gain":{  "max":62,  "min":1  },  "mirroring":0,  "nr3d":1,  "redGain":128,  "rotation":0,  "shutter":{  "max":125,  "min":0  },  "whiteBalance":"Auto"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| antiFlicker | Flicker prevention,[ "Outdoor", "50HZ", "60HZ", "Off" ] | M |
| exposure | Exposure mode,  [ "Auto", "LowOise", "Anti-Smearing", "Manual" ] | M |
| gain  (Depend on exposure) | When the value of exposure is LowOise or Manual, the gain field is effective. | M |
| shutter  (Depend on exposure) | When the value of exposure is Anti-Smearing or Manual, the shutter field is effective. | M |
| whiteBalance | White Balance,[ "Auto", "Manual" ] | M |
| blueGain  (Depend on whiteBalance) | When the value of whiteBalance is Anti-Smearing or Manual, the blueGain field is effective. | M |
| redGain  (Depend on whiteBalance) | When the value of whiteBalance is Anti-Smearing or Manual, the redGain field is effective. | M |
| dayNight | Day&Night,[ "Auto", "Color", "Black&White" ] | M |
| backLight | Backlight compensation,  [ "Off", "BackLightControl", "DynamicRangeControl" ] | M |
| Blc  (Depend on backLight) | When the value of backLight is BackLightControl, the blc field is effective. | M |
| Drc  (Depend on backLight) | When the value of backLight is DynamicRangeControl, the drc field is effective. | M |
| nr3d |  | M |
| mirroring | Video mirroring. | M |
| rotation | Video rotation. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetOsd",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.4.9 GetMask

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Mask. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetMask&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetMask",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetMask",  "code" : 0,  "initial" : {  "Mask" : {  "area" : [  {  "block" : {  "height" : 720,  "width" : 1280,  "x" : 0,  "y" : 0  },  "screen" : {  "height" : 720,  "width" : 1280  }  }  ],  "channel" : 0,  "enable" : 0  }  },  "range" : {  "Mask" : {  "channel" : 0,  "enable" : "boolean",  "maxAreas" : 4  }  },  "value" : {  "Mask" : {  "area" : [  {  "block" : {  "height" : 720,  "width" : 1280,  "x" : 0,  "y" : 0  },  "screen" : {  "height" : 720,  "width" : 1280  }  },  ... // There may be multiple areas, up to 4 areas.  ],  "channel" : 0,  "enable" : 1  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| enable | Video mask switch. |
| Block->height | Block height. |
| Block->width | Block width. |
| Block->x | Left upper X axis coordinates |
| Block->y | Left upper Y axis coordinates |
| Screen->height | Screen height. |
| Screen->width | Screen width. |

### 3.4.10 SetMask

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Mask. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetMask&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetMask",  "action":0,  "param":{  "Mask":{  "channel":0,  "enable":1,  "area":[  {  "screen":{  "height":720,  "width":1280  },  "block":{  "x":110,  "y":95,  "width":36,  "height":166  }  },  {  "screen":{  "height":720,  "width":1280  },  "block":{  "x":251,  "y":100,  "width":54,  "height":175  }  },  {  "screen":{  "height":720,  "width":1280  },  "block":{  "x":425,  "y":102,  "width":23,  "height":211  }  },  {  "screen":{  "height":720,  "width":1280  },  "block":{  "x":632,  "y":88,  "width":51,  "height":245  }  }  ]  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| enable | Video mask switch. | M |
| Block->height | Block height. | M |
| Block->width | Block width. | M |
| Block->x | Left upper X axis coordinates | M |
| Block->y | Left upper Y axis coordinates | M |
| Screen->height | Screen height. | M |
| Screen->width | Screen width. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetMask",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.4.11 Preview

* **Interface Description**

|  |
| --- |
| Preview |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= Preview&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" Preview"  “Preview”:{  “channel”:0  “enable”:0  “type”:”main”  }    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " Preview ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.4.12 GetCrop

* **Interface Description**

|  |
| --- |
| GetCrop. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetCrop&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetCrop",    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetCrop",  "code" : 0,  "value" : {  "Crop" : {  "minHeight":0  "minWidth":0  "mainHeight":0  "mainWidth":0  "cropHeight":0  "cropWidth":0  "topLeftY":0  "topLeftX":0  }  }  "initial" : {  "Crop" : {  "minHeight":0  "minWidth":0  "mainHeight":0  "mainWidth":0  "cropHeight":0  "cropWidth":0  "topLeftY":0  "topLeftX":0  }  }  "range" : {  "Crop" : {  "topLeftY":{  “min”:0  “max”:10  }  "topLeftX":{  “min”:0  “max”:10  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.5 Enc

### 3.5.1 GetEnc

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Enc. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetEnc&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetEnc",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetEnc",  "code" : 0,  "initial" : {  "Enc" : {  "audio" : 0,  "channel" : 0,  "mainStream" : {  "bitRate" : 6144,  "frameRate" : 30,  "profile" : "High",  "size" : "2560\*1440"  },  "subStream" : {  "bitRate" : 160,  "frameRate" : 7,  "profile" : "High",  "size" : "640\*360"  }  }  },  "range" : {  "Enc" : [  {  "audio" : "boolean",  "mainStream" : {  "bitRate" : [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],  "default" : {  "bitRate" : 6144,  "frameRate" : 30  },  "frameRate" : [ 30, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "2560\*1440"  },  "subStream" : {  "bitRate" : [ 64, 128, 160, 192, 256, 384, 512 ],  "default" : {  "bitRate" : 160,  "frameRate" : 7  },  "frameRate" : [ 15, 10, 7, 4 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "640\*360"  }  },  {  "audio" : "boolean",  "mainStream" : {  "bitRate" : [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],  "default" : {  "bitRate" : 5120,  "frameRate" : 30  },  "frameRate" : [ 30, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "2048\*1536"  },  "subStream" : {  "bitRate" : [ 64, 128, 160, 192, 256, 384, 512 ],  "default" : {  "bitRate" : 160,  "frameRate" : 7  },  "frameRate" : [ 15, 10, 7, 4 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "640\*360"  }  },  {  "audio" : "boolean",  "mainStream" : {  "bitRate" : [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],  "default" : {  "bitRate" : 5120,  "frameRate" : 30  },  "frameRate" : [ 30, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "2304\*1296"  },  "subStream" : {  "bitRate" : [ 64, 128, 160, 192, 256, 384, 512 ],  "default" : {  "bitRate" : 160,  "frameRate" : 7  },  "frameRate" : [ 15, 10, 7, 4 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "640\*360"  }  },  {  "audio" : "boolean",  "mainStream" : {  "bitRate" : [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],  "default" : {  "bitRate" : 5120,  "frameRate" : 30  },  "frameRate" : [ 30, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "1080P"  },  "subStream" : {  "bitRate" : [ 64, 128, 160, 192, 256, 384, 512 ],  "default" : {  "bitRate" : 160,  "frameRate" : 7  },  "frameRate" : [ 15, 10, 7, 4 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "640\*360"  }  },  {  "audio" : "boolean",  "mainStream" : {  "bitRate" : [ 512, 768, 1024, 1536, 2048, 3072, 4096, 5120 ],  "default" : {  "bitRate" : 3072,  "frameRate" : 30  },  "frameRate" : [ 30, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "720P"  },  "subStream" : {  "bitRate" : [ 64, 128, 160, 192, 256, 384, 512 ],  "default" : {  "bitRate" : 160,  "frameRate" : 7  },  "frameRate" : [ 15, 10, 7, 4 ],  "profile" : [ "Base", "Main", "High" ],  "size" : "640\*360"  }  }  ]  },  "value" : {  "Enc" : {  "audio" : 1,  "channel" : 0,  "mainStream" : {  "bitRate" : 6144,  "frameRate" : 30,  "profile" : "Main",  "size" : "2560\*1440"  },  "subStream" : {  "bitRate" : 160,  "frameRate" : 7,  "profile" : "High",  "size" : "640\*360"  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| audio | Audio switch. |
| mainStream->bitRate | Bit rate of main stream. |
| mainStream->frameRate | FrameRate of main stream. |
| mainStream->profile | H.264 Profile. |
| mainStream->size | Resolution. |
| subStream->bitRate | Bit rate of sub stream. |
| subStream->frameRate | FrameRate of sub stream. |
| subStream->profile | H.264 Profile. |
| subStream->size | Resolution. |

### 3.5.2 SetEnc

* **Interface Description**

|  |
| --- |
| It is used to set configuration of Enc. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetEnc&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetEnc",  "param":{  "Enc":{  "channel":"\_ChnNum",  "audio":1,  "mainStream":{  "bitRate":6144,  "frameRate":30,  "profile":"Main",  "size":"2560\*1440"  },  "subStream":{  "bitRate":160,  "frameRate":7,  "profile":"High",  "size":"640\*360"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| audio | Audio switch. | M |
| mainStream->bitRate | Bit rate of main stream. | M |
| mainStream->frameRate | FrameRate of main stream. | M |
| mainStream->profile | H.264 Profile. | M |
| mainStream->size | Resolution. | M |
| subStream->bitRate | Bit rate of sub stream. | M |
| subStream->frameRate | FrameRate of sub stream. | M |
| subStream->profile | H.264 Profile. | M |
| subStream->size | Resolution. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetEnc",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.6 Record

### 3.6.1 GetRec

* **Interface Description**

|  |
| --- |
| It is used to get configuration of record. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetRec&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetRec",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | Index of channel | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetRec",  "code" : 0,  "initial" : {  "Rec" : {  "channel" : 0,  "overwrite" : 1,  "postRec" : "15 Seconds",  "preRec" : 1,  "schedule" : {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  },  "range" : {  "Rec" : {  "channel" : 0,  "overwrite" : "boolean",  "postRec" : [ "15 Seconds", "30 Seconds", "1 Minute" ],  "preRec" : "boolean",  "schedule" : {  "enable" : "boolean"  }  }  },  "value" : {  "Rec" : {  "channel" : 0,  "overwrite" : 1,  "postRec" : "1 Minute",  "preRec" : 1,  "schedule" : {  "enable" : 1,  "table" : "000111111111111111111111111111110001111111111111111111110001111000011111100111010001111000011000100111111111111000011000100111111111111000011000100111111111111111111111"  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| channel | Channel number |
| overwrite | Whether the video files can be overwritten |
| postRec | Post record time |
| preRec | Enable pre record |
| enable | Enable scheduled recording |
| table | A string with the length of 7 days\*24 hours. Each byte in this hour indicates whether it’s recording. With the value of 0, the recording is off, otherwise the recording is on. |

### 3.6.2 SetRec

* **Interface Description**

|  |
| --- |
| It is used to set configuration of record. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetRec&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetRec",  "param":  {  "Rec" :  {  "channel" : 0,  "overwrite" : 1,  "postRec" : "30 Seconds",  "preRec" : 1,  "schedule" :  {  "enable" : 1,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | See also GetRec | M |
| overwrite | See also GetRec | O |
| postRec | See also GetRec | O |
| preRec | See also GetRec | O |
| enable | See also GetRec | O |
| table | See also GetRec | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetRec",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.6.3 Search

* **Interface Description**

|  |
| --- |
| It is used to search video files. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=Search&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"Search",  "param":{  "Search":{  "channel":0,  "onlyStatus":0,  "streamType":"main",  "StartTime":{  "year":2015,  "mon":1,  "day":31,  "hour":1,  "min":1,  "sec":1  },  "EndTime":{  "year":2016,  "mon":6,  "day":7,  "hour":23,  "min":50,  "sec":1  }  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | Channel number | M |
| onlyStatus | The value 1 means it will only get the data of dates instead of requiring the details of the files. The value 0 means it will get the details information of a certain day. | M |
| streamType | The stream type of the recordings, “main” is for searching main stream, otherwise is for searching sub stream. | M |
| StartTime | The start time of the recordings | M |
| EndTime | The end time of the recordings | M |
| Noted: Searching a big amount of files might lead to searching time out | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "Search",  "code" : 0,  "value" : {  "SearchResult" : {  "Status" : [  {  "mon" : 5,  "table" : "0000000000000000000000011111110",  "year" : 2016  }  ],  "channel" : 0  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| mon | Record date(month) |
| year | Record date(year) |
| channel | channel number |
| table | Each byte in the string represent the days of the month, indicating whether it’s recording. With the value of 0, the recording is off, with the value of 1, the recording is on. |

|  |  |
| --- | --- |
| Return data correctly (onlyStatus 为0) | |
| [  {  "cmd" : "Search",  "code" : 0,  "value" : {  "SearchResult" : {  "File" : [  {  "EndTime" : {  "day" : 25,  "hour" : 20,  "min" : 1,  "mon" : 5,  "sec" : 21,  "year" : 2016  },  "StartTime" : {  "day" : 25,  "hour" : 20,  "min" : 0,  "mon" : 5,  "sec" : 57,  "year" : 2016  },  "frameRate" : 30,  "height" : 1440,  "name" : "Rec\_20160525\_110057\_411\_M.mp4",  "size" : 19437931,  "type" : "main",  "width" : 2560  },  {  "EndTime" : {  "day" : 25,  "hour" : 20,  "min" : 2,  "mon" : 5,  "sec" : 44,  "year" : 2016  },  "StartTime" : {  "day" : 25,  "hour" : 20,  "min" : 2,  "mon" : 5,  "sec" : 21,  "year" : 2016  },  "frameRate" : 30,  "height" : 1440,  "name" : "Rec\_20160525\_110221\_411\_M.mp4",  "size" : 18441719,  "type" : "main",  "width" : 2560  },  {  "EndTime" : {  "day" : 25,  "hour" : 20,  "min" : 3,  "mon" : 5,  "sec" : 15,  "year" : 2016  },  "StartTime" : {  "day" : 25,  "hour" : 20,  "min" : 2,  "mon" : 5,  "sec" : 53,  "year" : 2016  },  "frameRate" : 30,  "height" : 1440,  "name" : "Rec\_20160525\_110253\_411\_M.mp4",  "size" : 17880700,  "type" : "main",  "width" : 2560  },  {  "EndTime" : {  "day" : 25,  "hour" : 20,  "min" : 4,  "mon" : 5,  "sec" : 51,  "year" : 2016  },  "StartTime" : {  "day" : 25,  "hour" : 20,  "min" : 4,  "mon" : 5,  "sec" : 23,  "year" : 2016  },  "frameRate" : 30,  "height" : 1440,  "name" : "Rec\_20160525\_110423\_411\_M.mp4",  "size" : 22532061,  "type" : "main",  "width" : 2560  }  ],  "Status" : [  {  "mon" : 5,  "table" : "0000000000000000000000011111110",  "year" : 2016  }  ],  "channel" : 0  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| frameRate | Frame rate |
| height | The height of the image |
| width | The width of the image |
| name | File name |
| size | File size |
| type | Stream type |
| StartTime | The start time of the recordings |
| EndTime | The end time of the recordings |
| mon | Month |
| year | Year |
| channel | Channel number |
| table | Each byte in the string represent the days of the month, indicating whether it’s recording. With the value of 0, the recording is off, with the value of 1, the recording is on. |

### 3.6.4 Download

* **Interface Description**

|  |
| --- |
| It is used to download video files. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/cgi-bin/api.cgi?cmd=Download&source=Rec\_20160622\_021427\_411\_M.mp4&output=Rec\_20160622\_101427\_411\_M.mp4&token= TOKEN |

* **Request parameter description**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **M/O** | **Description** |
| source | M | The name of the source file |
| output | M | Video files storage name |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| Content-Type: apolication/octet-stream  Content-Length: 30199455  Last-Modified: Wed, 22 Jun 2016 02:19:42 GMT  Connection: keep-alive  Content-Disposition: attachment;filename=Rec\_20160622\_101903\_411\_M.mp4  ETag: "5769f5be-1ccce9f"  Accept-Ranges: bytes  .............................(file content) | |
| **Field description** | |
| **Field** | **description** |
| filename | The name of the video file |

### 3.6.5 Snap

* **Interface Description**

|  |
| --- |
| It is used to capture an image. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/cgi-bin/api.cgi?cmd=Snap&channel=0&rs=6PHVjvf0UntSLbyT&token=TOKEN |

* **Request parameter description**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **M/O** | **Description** |
| channel | M | Channel number |
| rs | M | Random character with fixed length. It’s used to prevent browser caching. |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| HTTP/1.1 200 OK  Server: nginx/1.6.2  Date: Wed, 08 Jun 2016 03:16:22 GMT  Content-Type: image/jpeg;name="snap.jpg"  Transfer-Encoding: chunked  Connection: keep-alive  .............................(File content) | |
| **Field description** | |
| **Field** | **description** |
| name | Picture name |

## 3.7 PTZ

### 3.7.1 GetPtzPreset

* **Interface Description**

|  |
| --- |
| It is used to get configuration of Ptz Preset. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPtzPreset&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPtzPreset",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | The channel number. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetPtzPreset",  "code" : 0,  "range" : {  "PtzPreset" : {  "channel" : 0,  "enable" : "boolean",  "id" : {  "max" : 64,  "min" : 1  },  "name" : {  "maxLen" : 31  }  }  },  "value" : {  "PtzPreset" : [  {  "channel" : 0,  "enable" : 0,  "id" : 1,  "name" : "pos1"  },  ... // There are total 64 PtzPreset.  ]  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| enable | Preset switch, The value of 1 represents the open, and the 0 is the opposite. |
| id | ID number of the Preset. |
| name | Name of the Preset. |

### 3.7.2 SetPtzPreset

* **Interface Description**

|  |
| --- |
| It is used to set configuration of PtzPreset. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetPtzPreset&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetPtzPreset",  "action":0,  "param":{  "PtzPreset":{  "channel":0,  "enable":1,  "id":1,  "name":"pos1"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| enable | 1 means that is on, and 0 means it’s off. If that field doesn’t exist it means only the name of the preset can be revised. | O |
| id | ID number of preset. Range [1~64]. | M |
| name | Name of preset, limit 1~31 characters. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetPtzPreset",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.7.3 GetPtzPatrol

* **Interface Description**

|  |
| --- |
| It is used to get configuration of PtzPatrol. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPtzPatrol&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPtzPatrol",  "action":1,  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | The channel number. | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetPtzPatrol",  "code" : 0,  "range" : {  "PtzPatrol" : {  "enable" : "boolean",  "id" : {  "max" : 1,  "min" : 1  },  "preset" : {  "dwellTime" : {  "max" : 30,  "min" : 1  },  "id" : {  "max" : 64,  "min" : 1  },  "speed" : {  "max" : 64,  "min" : 1  }  },  "running" : "boolean"  }  },  "value" : {  "PtzPatrol" : [  {  "channel" : 0,  "enable" : 1,  "id" : 1,  "preset" : [  {  "dwellTime" : 30,  "id" : 35,  "speed" : 30  },  ... // There are at most 16 preset.  ],  "running" : 0  }  ]  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| enable | Patrol switch, The value 1 means that’s enabled, and 0 means the opposite. |
| id | ID number of the Patrol. |
| running |  |
| Preset->dwellTime |  |
| Preset->id |  |
| Preset->speed |  |

### 3.7.4 SetPtzPatrol

* **Interface Description**

|  |
| --- |
| It is used to set configuration of PtzPatrol. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetPtzPatrol&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetPtzPatrol",  "action":0,  "param":{  "PtzPatrol":{  "channel":0,  "enable":1,  "id":1,  "preset":[  {  "dwellTime":3,  "id":1,  "speed":10  },  {  "dwellTime":4,  "id":2,  "speed":20  },  ... // There may be multiple preset.  ]  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| enable |  | M |
| id | ID number of Patrol. | M |
| Preset->dwellTime |  | M |
| Preset->id | ID number of preset. Range [1~64]. | M |
| Preset->speed |  | M |
| Note : Support up to 16 preset. | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetPtzPatrol",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.7.5 PtzCtrl

* **Interface Description**

|  |
| --- |
| It is used to control the operation of PTZ. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=PtzCtrl&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"PtzCtrl",  "param":{  "channel":0,  "op":"Auto",  "speed":32  }  },  {  "cmd":"PtzCtrl",  "param":{  "channel":0,  "op":"Stop"  }  },  {  "cmd":"PtzCtrl",  "param":{  "channel":0,  "op":"ToPos",  "id":1,  "speed":32  }  }  ...  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | IPC channel number. | M |
| op | Operation to control the PTZ. | M |
| id | Preset id number or Patrol id number. | O |
| speed | PTZ running speed. | O |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "PtzCtrl",  "code" : 0,  "value" : {  "rspCode" : 200  }  },  {  "cmd" : "PtzCtrl",  "code" : 0,  "value" : {  "rspCode" : 200  }  },  {  "cmd" : "PtzCtrl",  "code" : 0,  "value" : {  "rspCode" : 200  }  },  ...  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |
| Notes :  connect to the ptz command, some parameters are unneeded. you just set it "0".  **the value of op is:**  "Stop": PTZ stop turning.  "Left": PTZ turn left in the specified speed.  "Right": PTZ turn right in the specified speed.  "Up": PTZ turn up in the specified speed.  "Down": PTZ turn down in the specified speed.  "LeftUp": PTZ turn left-up in the specified speed.  "LeftDown": PTZ turn left-down in the specified speed.  "RightUp": PTZ turn right-up in the specified speed.  "RightDown": PTZ turn right-down in the specified speed.  "IrisDec":Iris shrink in the specified speed.  "IrisInc":Iris enlarge in the specified speed.  "ZoomDec":Zoom in in the specified speed.  "ZoomInc":Zoom out in the specified speed.  "FocusDec":Focus backwards in the specified speed.  "FocusInc":Focus forwards in the specified speed.  "Auto": PTZ turn auto in the specified speed.  "StartPatrol": PTZ patrol in the specified speed.  "StopPatrol": PTZ stop patrol.  "ToPos": PTZ turn to a specified preset in the specified speed. | |

### 3.7.5 GetPtzSerial

* **Interface Description**

|  |
| --- |
| GetPtzSerial. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPtzSerial&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPtzSerial",    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetPtzSerial ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.7.6 SetPtzSerial

* **Interface Description**

|  |
| --- |
| SetPtzSerial. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetPtzSerial&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetPtzSerial ",    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetPtzSerial ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.7.7 GetPtzTattern

* **Interface Description**

|  |
| --- |
| GetPtzTattern. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPtzTattern&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPtzTattern",    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetPtzTattern",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.7.6 SetPtzTattern

* **Interface Description**

|  |
| --- |
| SetPtzTattern. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetPtzTattern&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetPtzTattern",    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetPtzTattern",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.8 Alarm

### 3.8.1 GetAlarm

* **Interface Description**

|  |
| --- |
| It is used to get alarm setting. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetAlarm&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetAlarm",  "action":1,  "param":{  "Alarm":{  "type":"md",  "channel":0  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | Index of channel | M |
| type | Alarm type , only support "md" now | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetAlarm",  "code" : 0,  "initial" : {  "Alarm" : {  "channel" : 0,  "scope" : {  "cols" : 80,  "rows" : 45,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  },  "sens" : [  {  "beginHour" : 0,  "beginMin" : 0,  "endHour" : 6,  "endMin" : 0,  "sensitivity" : 9  },  {  "beginHour" : 6,  "beginMin" : 0,  "endHour" : 12,  "endMin" : 0,  "sensitivity" : 9  },  {  "beginHour" : 12,  "beginMin" : 0,  "endHour" : 18,  "endMin" : 0,  "sensitivity" : 9  },  {  "beginHour" : 18,  "beginMin" : 0,  "endHour" : 23,  "endMin" : 59,  "sensitivity" : 9  }  ],  "type" : "md"  }  },  "range" : {  "Alarm" : {  "channel" : 0,  "scope" : {  "cols" : {  "max" : 80,  "min" : 80  },  "rows" : {  "max" : 45,  "min" : 45  },  "table" : {  "maxLen" : 6399  }  },  "sens" : [  {  "beginHour" : {  "max" : 23,  "min" : 0  },  "beginMin" : {  "max" : 59,  "min" : 0  },  "endHour" : {  "max" : 23,  "min" : 0  },  "endMin" : {  "max" : 59,  "min" : 0  },  "id" : 0,  "sensitivity" : {  "max" : 50,  "min" : 1  }  },  {  "beginHour" : {  "max" : 23,  "min" : 0  },  "beginMin" : {  "max" : 59,  "min" : 0  },  "endHour" : {  "max" : 23,  "min" : 0  },  "endMin" : {  "max" : 59,  "min" : 0  },  "id" : 1,  "sensitivity" : {  "max" : 50,  "min" : 1  }  },  {  "beginHour" : {  "max" : 23,  "min" : 0  },  "beginMin" : {  "max" : 59,  "min" : 0  },  "endHour" : {  "max" : 23,  "min" : 0  },  "endMin" : {  "max" : 59,  "min" : 0  },  "id" : 2,  "sensitivity" : {  "max" : 50,  "min" : 1  }  },  {  "beginHour" : {  "max" : 23,  "min" : 0  },  "beginMin" : {  "max" : 59,  "min" : 0  },  "endHour" : {  "max" : 23,  "min" : 0  },  "endMin" : {  "max" : 59,  "min" : 0  },  "id" : 3,  "sensitivity" : {  "max" : 50,  "min" : 1  }  }  ],  "type" : "md"  }  },  "value" : {  "Alarm" : {  "channel" : 0,  "scope" : {  "cols" : 80,  "rows" : 45,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111000000000000000011111111111111111111111111111111111111111111111111111111111111110000000000000000111111111111111111111111111111111111111111111111111111111111111100000000000000001111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  },  "sens" : [  {  "beginHour" : 2,  "beginMin" : 0,  "endHour" : 23,  "endMin" : 0,  "id" : 0,  "sensitivity" : 9  },  {  "beginHour" : 23,  "beginMin" : 0,  "endHour" : 23,  "endMin" : 0,  "id" : 1,  "sensitivity" : 9  },  {  "beginHour" : 23,  "beginMin" : 0,  "endHour" : 23,  "endMin" : 0,  "id" : 2,  "sensitivity" : 9  },  {  "beginHour" : 23,  "beginMin" : 0,  "endHour" : 23,  "endMin" : 59,  "id" : 3,  "sensitivity" : 9  }  ],  "type" : "md"  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| channel | Channel number |
| scope | Motion detection scope, consisting of 80 columns and 45 rows. Appointed by cols and rows. |
| cols | The number of col |
| rows | The number of row |
| table(scope) | A string with the length of 80\*45, each byte represents an area. With the value 1 motion detection is active in that period of time. With the value of 0 no response will be made with any detected motion. |
| sens | The sensitivity settings for motion detection. It is devided into 4 intervals by time. |
| beginHour | The start hour. |
| beginMin | The start minute. |
| endHour | The ending hour. |
| endMin | The ending minute. |
| sensitivity | Sensitivity |
| id | Section index |
| type | Alarm type, only “md” is supported. |

### 3.8.2 SetAlarm

* **Interface Description**

|  |
| --- |
| It is used to set alarm setting. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetAlarm&token=TOKEN |

* **Post Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"SetAlarm",  "param":{  "Alarm" : {  "channel" : 0,  "scope" : {  "cols" : 80,  "rows" : 45,  "table" : "111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111"  },  "sens" : [  {  "beginHour" : 2,  "beginMin" : 0,  "endHour" : 6,  "endMin" : 0,  "sensitivity" : 9  },  {  "beginHour" : 7,  "beginMin" : 0,  "endHour" : 12,  "endMin" : 0,  "sensitivity" : 9  },  {  "beginHour" : 14,  "beginMin" : 0,  "endHour" : 18,  "endMin" : 0,  "sensitivity" : 9  },  {  "beginHour" : 20,  "beginMin" : 0,  "endHour" : 23,  "endMin" : 59,  "sensitivity" : 9  }  ],  "type" : "md"  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
| channel | See also GetAlarm | M |
| scope | See also GetAlarm | O |
| cols | See also GetAlarm | O |
| rows | See also GetAlarm | O |
| table | See also GetAlarm | O |
| sens | See also GetAlarm | O |
| beginHour | See also GetAlarm | O |
| beginMin | See also GetAlarm | O |
| endHour | See also GetAlarm | O |
| endMin | See also GetAlarm | O |
| sensitivity | See also GetAlarm | O |
| id | See also GetAlarm | O |
| type | See also GetAlarm | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "SetAlarm",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |

### 3.8.3 GetMdState

* **Interface Description**

|  |
| --- |
| It is used to get state of MD. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetMdState&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetMdState",  "param":{  "channel":0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : "GetUpnp",  "code" : 0,  "value" : {  "state" : 1  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| state | The state of motion detection. The value 1 means motions have been detected and 0 means no motion has been detected. |

### 3.8.4 GetAudioAlarm

* **Interface Description**

|  |
| --- |
| GetAudioAlarm. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetAudioAlarm&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetAudioAlarm",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetAudioAlarm",  "code" : 0,  "value" : {  “Audio”:{  “schedule”:{  “table”:0  “enable”:0  }  }  }  "initial" : {  “Audio”:{  “schedule”:{  “table”:0  “enable”:0  }  }  }  "range" : {  “Audio”:{  “schedule”:{  “table”:{  “minlen”:0  “maxlen”:10  }  “enable”:boolean  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.11.4 SetPowerLed

* **Interface Description**

|  |
| --- |
| SetPowerLed. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetPowerLed &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetPowerLed ",  “PowerLed”:{  “state”:0  “channel”:0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetPowerLed ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.9 RTMP

### 3.9.1 rtmp=start

* **Interface Description**

|  |
| --- |
| rtmp=start |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= rtmp=start&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" rtmp=start"  “Preview”:{  “channel”:0  “enable”:0  “type”:”main”  }    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " rtmp=start",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.9.2 rtmp=stop

* **Interface Description**

|  |
| --- |
| rtmp=stop |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= rtmp=stop&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" rtmp=stop"  “Preview”:{  “channel”:0  “enable”:1  “type”:”main”  }    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " rtmp=stop",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.9.3 rtmp=auth

* **Interface Description**

|  |
| --- |
| rtmp=auth |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= rtmp=auth&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" rtmp=auth"    }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  | M |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " rtmp=auth",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.10 AUTO\_FOCUS

### 3.10.1 GetAutoFocus

* **Interface Description**

|  |
| --- |
| GetAutoFocus. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetAutoFocus&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetAutoFocus",  “code”:0  “value”:{  “AutoFocus”:{  “disable”:0  }  }  “initial”:{  “AutoFocus”:{  “disable”:0  }  }  “value”:{  “AutoFocus”:{  “disable”:”boolean”  }  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetAutoFocus",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.10.2 SetAutoFocus

* **Interface Description**

|  |
| --- |
| SetAutoFocus. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetAutoFocus&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetAutoFocus",  “AutoFocus”:{  “disable”:0    }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetAutoFocus",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

## 3.11 LED

### 3.11.1 GetIrLights

* **Interface Description**

|  |
| --- |
| GetIrLights. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetIrLights&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetIrLights",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetIrLights",  "code" : 0,  "value" : {  “IrLights”:{  “state”:0  }  }  "initial" : {  “IrLights”:{  “state”:0  }  }  "range" : {  “IrLights”:{  “state”:{  “Auto”  ”Off”  “On”  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.11.2 SetAutoFocus

* **Interface Description**

|  |
| --- |
| SetAutoFocus. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=SetAutoFocus&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetAutoFocus",  “AutoFocus”:{  “disable”:0    }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetAutoFocus",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.11.3 GetPowerLed

* **Interface Description**

|  |
| --- |
| GetPowerLed. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd=GetPowerLed&token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":"GetPowerLed",  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " GetPowerLed ",  "code" : 0,  "value" : {  “PowerLed”:{  “channel”:0  “state”:0  }  }  "range" : {  “PowerLed”:{  “state”:{  “On”  ”Off”  }  }  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

### 3.11.4 SetPowerLed

* **Interface Description**

|  |
| --- |
| SetPowerLed. |

* **Interface call instructions**

|  |  |
| --- | --- |
| Request URL | http://IPC\_IP/api.cgi?cmd= SetPowerLed &token=TOKEN |

* **POST Data**

|  |  |  |
| --- | --- | --- |
| **Data example** | | |
| [  {  "cmd":" SetPowerLed ",  “PowerLed”:{  “state”:0  “channel”:0  }  }  ] | | |
| **Field description** | | |
| **Field** | **Description** | **M/O** |
|  |  |  |
|  | | |

* **Return data description**

|  |  |
| --- | --- |
| Return data correctly | |
| [  {  "cmd" : " SetPowerLed ",  "code" : 0,  "value" : {  "rspCode" : 200  }  }  ] | |
| **Field description** | |
| **Field** | **description** |
| rspCode | Response code |

# 4. Response

## 4.1 Error

|  |  |  |
| --- | --- | --- |
| Error Response | | |
| [  {  "cmd":string,  "code":0,  "error":{  "rspCode":int,  "detail":string  }  }  ] | | |
| rspCode | Details | Description |
| -1 | not exist | Missing parameters |
| -2 | out of mem | Used up memory |
| -3 | check err | Check error |
| -4 | param error | Parameters error |
| -5 | max session | Reached the max session number. |
| -6 | please login first | Login required |
| -7 | login failed | Login error |
| -8 | timeout | Operation timeout |
| -9 | not support | Not supported |
| -10 | protocol | Protocol error |
| -11 | fcgi read failed | Failed to read operation |
| -12 | get config failed | Failed to get configuration. |
| -13 | set config failed | Failed to set configuration. |
| -14 | malloc failed | Failed to apply for memory |
| -15 | create socket failed | Failed to created socket |
| -16 | send failed | Failed to send data |
| -17 | rcv failed | Failed to receiver data |
| -18 | open file failed | Failed to open file |
| -19 | read file failed | Failed to read file |
| -20 | write file failed | Failed to write file |
| -21 | error token | Token error |
| -22 | The length of the string exceeds the limit | The length of the string exceeds the limitmation |
| -23 | missing param | Missing parameters |
| -24 | error command | Command error |
| -25 | internal error | Internal error |
| -26 | ability error | Ability error |
| -27 | invalid user | Invalid user |
| -28 | user already exist | User already exist |
| -29 | maximum number of users | Reached the maximum number of users |
| -30 | same version | The version is identical to the current one. |
| Note : Field "details" means more detailed error information. | | |