JVC Camcorder Web API Reference Version 1.07

JVC KENWOOD Corporation

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Version	Outline
1.00	First release
1.01	Added GY-HM660 to the command table
	Added '3.1.15 Set streaming server settings(RTP)' command only GY-HM660.
	Added PcrJitter parameter in '3.1.18 Get streaming server settings' and '3.1.19 Set streaming server settings(UDP)' commands.
1.02	Added '3.1.14 Set streaming server settings(RTP)' command for all cameras.
-	Type "TCP" is effective in 'GY-HM650' and 'GY-HM660' in command with a streaming type parameter.
	Added "Variable Gain" parameter to '3.3.1 Get Camera Status' and '3.3.6 Set Web Event' for 'GY-LS300'.
1.03	Type "TCP" is effective in 'GY-HM650' in command with a streaming type parameter.
	Type "UDPN" and "UDPL" are effective in 'GY-HM660' in command with a streaming type parameter.
1.04	Supported KY-PZ100 newly.
	Added '3.1.3 Set streaming framerate' command for 'KY-PZ100'.
	Added '3.1.6 Available streaming framerate settings' command for 'KY-PZ100'.
	Added '3.4. PTZ Camera Support Command' for 'KY-PZ100'.
	Added '3.5. How to acquire JPEG data' for 'KY-PZ100'.
1.05	Added '3.1.3 Set streaming framerate' command for 'GY-HM200', 'GY-LS300', 'GY-HM8x0', and 'GY-HM660'.
	Added '3.1.6 Available streaming framerate settings' command for 'GY-HM200', 'GY-LS300', 'GY-HM8x0', and 'GY-HM660'.
	Added '3.5. How to acquire JPEG data' for 'GY-HM200', 'GY-LS300', 'GY-HM8x0', and 'GY-HM660'.
	Added '3.6. How to use interruptible feedback function' for 'GY-HM660'.
1.06	Error correction. 2.1.1.
	Another client is able to connect while first client is using API interface.
	3.2.2 SessionRenewal command has become obsolete.
	Added '3.6. How to use interruptible feedback function' for 'GY-HM8x0'.
	Type "UDPN" and "UDPL" are effective in 'GY-HM8x0' in command with a streaming type parameter
	of '3.1.7 Available streaming bitrate settings' command.
1.07	Error correction. '3.1.10 Get streaming server settings'.
	Revised wrong parameters. They are effective to all models.
	Error correction. '3.3.6. Set Web Button Event'.
	Some parameters are not supported on 'KY-PZ100'.
	Added "MasterBlack" parameters to '3.3.1 Get Camera Status' and '3.3.6 Set Web Event'
	for 'GY-HM8x0', 'GY-HM660', and 'GY-HM200'.
	Added "Detail" parameters to '3.3.1 Get Camera Status' and '3.3.6 Set Web Event' for 'GY-HM8x0', 'GY-HM660', and 'GY-HM200'.
	Added '3.4.3 Zoom switch operation' command for 'GY-HM8x0', 'GY-HM660', and 'GY-HM200'.
	Added '3.3.10 Seesaw switch operation' command for 'GY-HM8x0', 'GY-HM660', and 'GY-HM200'.
	Added Gain event "Up1"/"Down1" parameters to '3.3.6 Set Web Event' for 'GY-HM8x0', 'GY-HM660', and 'GY-HM200'.
	Added target models 'GY-HM8x0', 'GY-HM660', and 'GY-HM200' to MenuStatus of '3.3.1 Get Camera Status'
	Added '3.7. How to control tally system' description for 'GY-HM8x0', 'GY-HM660', 'GY-HM200', and 'KY-PZ100'.
	Changed "3.3.5. Tally lamp control' description correspond to it.

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1.1. Specification

This API specification describes commands to control JVC cameras via network.

Following commands are available.

Setting command - Configure camera settings

System command - Perform the information of the camera, the update of the session

, the memory of the value

Camera control command
PTZ camera control command
PTZ camera control command
PTZ camera control command
PTZ camera
Control PTZ camera
Camera
Control PTZ camera
Camera
Control PTZ camer

* Some API commands may be restricted by camera model and software version.

* Supported API functions are depends on the API version of the camera.

Version information can be obtained with the command 'Get System Information'.

Supported camera model and firmware version.

	Firmware Ve	rsion				
API Version	GY-HM650	GY-HM660	GY-HM8x0	GY-HM200	GY-LS300	KY-PZ100
1.00	V0404	-	V0203-0060	V0203-0136	V0203-0132	-
1.01	-	V0100-0049	i	1	i	-
1.02	-	-	V0300-0067	V0300-0150	V0300-0143	-
1.03	-	V0102-0067	i	ı	i	-
1.04	-	-	-	-	-	V0100-0076
1.05	-	V0105-0086	V0301-0076	V0305-0182	V0302-0151	V0101-0093
1.06	-	-	V0303-0084	-	-	-
1.07	-	V0110-0111	V0305-0090	V0309-0213	-	V0102-0103

^{*} This list shows oldest firmware version which support each API Version.

2. Interface

Support HTTP protocol

API commad request/response uses HTTP protocol.

A request uses a port number 80 with default setting. It may change if the web port setting on the camera menu is modified.

Requests and response data are described with JSON format in HTTP message body.

2.1. Authentication

Digest authentication

Usename/password authorization is needed on first access to the camera.

It returns 'Session ID' to the client after authorization.

The client can access without authorization by using this 'Session ID'.

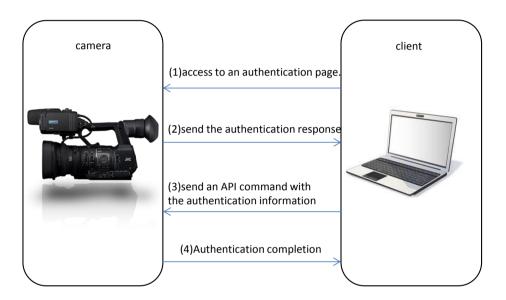
'Session ID' will expire within 30 seconds.

It has to be extended using 'SessionRenewal' command.

Authentication process has to be performed to obtain another 'Session ID' after expiration.

Please refer to RFC2617 for more information.

Procedure



(1)Access to an authentication page of a server from the client.

Example

GET /api.php HTTP/1.1\r\n

Host: 192.168.0.134\r\n

User-Agent: Mozilla/5.0 (Windows NT 5.1; rv:27.0) Gecko/20100101 Firefox/27.0\r\n

 $\label{localization} Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \label{localization} % Accept: text/html, application/xhtml+xml, applicatio$

Accept-Language: ja,en-us;q=0.7,en;q=0.3\r\n

Accept-Encoding: gzip, deflate\r\n Connection: keep-alive\r\n

\r\n

(2) The response for authentication is returned to a client.

Example

HTTP/1.1 401 Unauthorized\r\n

WWW-Authenticate: Digest realm="GY-HM650",

nonce="7a63056b0a608017c405707e682b9adb", qop="auth"\r\n

Content-Type: text/html\r\n Content-Length: 1458\r\n

Date: Tue, 03 Mar 2015 11:35:13 GMT\r\n

Server: Camera\r\n

Vr

(3)The client re-access with the authentication information(user name and password) to the authentication page

Example

GET /api.php HTTP/1.1\r\n

Host: 192.168.0.134\r\n

User-Agent: Mozilla/5.0 (Windows NT 5.1; rv:27.0) Gecko/20100101 Firefox/27.0\r\n

 $\label{location_location_location} Accept: \ text/html, application/xhtml+xml, application/xml; q=0.9, */*; q=0.8 \ r\ location/xml; q=0.9, */*; q=0.8 \ r\ l$

 $Accept-Language: ja,en-us;q=0.7,en;q=0.3 \label{eq:language} $$Accept-Language: ja,en-us;q=0.7,en;q=0.7,en;q=0.7,en;q=0.7,en;q=0.7,en;q=0.7,en;q=0.7,en;q=$

Accept-Encoding: gzip, deflate\r\n

Connection: keep-alive\r\n

Authorization: Digest username="prohd", realm="GY-HM650", nonce="7a63056b0a608017c405707e682b9adb", uri="/api.php",

response="0f4d23f739a0e9fa3b78b826b33edaf8", qop=auth, nc=00000001,

cnonce="ee16206547e4dd0e"\r\n

\r\n

(4)Session ID is returned form the camera.

Example

HTTP/1.1 302 Found\r\n

Status: 302 Moved Temporarily\r\n

Expires: Thu, 19 Nov 1981 08:52:00 GMT\r\n

Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0\r\n

Pragma: no-cache\r\n

Set-Cookie: SessionID=10ffa8dcd1bb1cf5f9c252b7b8a20738\r\n

Content-type: text/html; charset=UTF-8\r\n

Transfer-Encoding: chunked\r\n

Date: Tue, 03 Mar 2015 11:35:23 GMT\r\n

Server: Camerar\n

\r\n

return to (2) in authentication failure.

* Another client cannot connect while first client is using API interface.

Hypertext Transfer Protocol

Example

```
POST /cgi-bin/api.cgi HTTP/1.1\r\n
Host: 192.168.0.134\r\n
User-Agent: Mozilla/5.0 (Windows NT 5.1; rv:27.0) Gecko/20100101 Firefox/27.0\r\n
Accept: application/json, text/javascript, */*; q=0.01\r\n
Accept-Language: ja,en-us;q=0.7,en;q=0.3\r\n
Accept-Encoding: gzip, deflate\r\n
Content-Type: application/x-www-form-urlencoded; charset=UTF-8\r\n
X-Requested-With: XMLHttpRequest\r\n
Referer: http://192.168.0.134/api.php\r\n
Content-Length: 86\r\n
Authorization: Digest username="prohd", realm="GY-HM650",
    nonce="7a63056b0a608017c405707e682b9adb", uri="/cgi-bin/api.cgi",
    response="c412878c40aa4d4943af678c2ba070b1", qop=auth, nc=0000001a,
    cnonce="3c706c583d858603"\r\n
Connection: keep-alive\r\n
Pragma: no-cache\r\n
Cache-Control: no-cache\r\n
```

HTML Form URL Encoded: application/x-www-form-urlencoded

Camera cannot accept any space character or newline within command string.

Ke	у	Style	Value
Re	quest		
	Command	String	(Command name)
	SessionID	String	(Session ID in cookie.)
	Params		(You can omit this field if there is no parameter.)
	***	***	

```
{
    "Request": {
        "Command":"GetSystemInfo",
        "SessionID":"10ffa8dcd1bb1cf5f9c252b7b8a20738"
    }
}
```

Hypertext Transfer Protocol

Example

```
HTTP/1.1 200 OK\r\n
Content-type: application/json\r\n
Pragma: no-cache\r\n
Cache-Control: no-cache\r\n
Expires: Thu, 01 Dec 1994 16:00:00 GMT\r\n
Content-Length: 105\r\n
Date: Tue, 03 Mar 2015 11:35:30 GMT\r\n
Server: Camerar\n
\r\n
```

JavaScript Object Notation: application/json

Acutual response from camera does not include any space character or newline.

Key		Style	Value
Respo	onse		
R	equested	String	(Command name)
R	esult	String	Result of command processing Success / DisableError(Timeout) / RequestedError(Illegal parameter error) / FormatError(Illegal request error) / CommandError(Illegal command error) / SessionError(Authentication error) / DualExeError(Duplicate command)
	a <u>ta </u>		(You can omit this field if there is no parameter.)
	***	***	

```
{
    "Response" : {
        "Requested" : "GetSystemInfo" ,
        "Result" : "Success" ,
        "Data" : {
            "Model" : "HM650",
            "Destination" : "EU",
            "ApiVersion" : "0.13.3"
        }
    }
}
```

3.1. Streaming Setting Command

When you change a part of these parameters, you should get all parameters first, then modify and store them again. Setting commands should be used only when settings need to be changed, otherwise it causes performance degradation.

3.1.1. Get streaming settings

Get the streaming setting

Request

Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	equest								
	Command	String	GetStreamingSettings	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "GetStreamingSettings" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
     }
}
```

Э У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
esponse								
Requested	String	GetStreamingSettings	Yes	Yes	Yes	Yes	Yes	Yes
Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes
Data								
Resolution	String	"1920x1080"	Yes	Yes	Yes	Yes	Yes	Yes
		"1440x1080"	Yes	Yes	Yes	Yes	Yes	No
		"1280x720"	Yes	Yes	Yes	Yes	Yes	Yes
		"720x480"	Yes	Yes	Yes	Yes	Yes	No
		"720x576"	Yes	Yes	Yes	Yes	Yes	No
		"640x360"	No	Yes	Yes	Yes	Yes	Yes
		"480x270"	Yes	No	No	No	No	No
Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p"	Yes	Yes	Yes	Yes	Yes	Yes
Bitrate	String	"0.2M"	Yes	No	No	No	No	No
		"0.3M"	Yes	Yes	Yes	Yes	Yes	Yes
		"0.8M"	Yes	Yes	Yes	Yes	Yes	Yes
		"1.5M"	Yes	Yes	Yes	Yes	Yes	Yes
		"2.5M"	Yes	Yes	Yes	Yes	Yes	Yes
		"3.0M"	Yes	Yes	Yes	Yes	Yes	Yes
		"5.0M"	Yes	Yes	Yes	Yes	Yes	Yes
		"8.0M"	Yes	Yes	Yes	Yes	Yes	Yes
		"10M"	Yes	Yes	Yes	Yes	Yes	Yes
		"12M"	Yes	Yes	Yes	Yes	Yes	Yes
		"16M"	No	No	No	No	No	Yes
		"20M"	No	No	No	No	No	Yes

```
Example

{
    "Response" : {
        "Requested" : "GetStreamingSettings" ,
        "Result" : "Success" ,
        "Data" : {
            "Resolution" : "1920x1080" ,
            "Framerate" : "60i" ,
            "Bitrate" : "3.0M"
        }
    }
}
```

3.1.2. Set streaming resolution

Set streaming resolution

Camcorder automatically reboots with this command on HM650, HM660, and HM8x0.

Current value can be obtained with the 'AvailableStreamingResolutionSettings' command.

Request

lest																									
Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100																
Reques	st																								
Com	nmand	String	SetStreamingResolution	Yes	Yes	Yes	Yes	Yes	Yes																
Sess	sionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes																
Para	ams																								
F	Resolution	String	"1920x1080"	Yes	Yes	Yes	Yes	Yes	Yes																
																			"1440x1080"	Yes	Yes	Yes	Yes	Yes	No
																			"	"1280x720" Yes Y	Yes	Yes	Yes	Yes	Yes
			"720x480"	Yes	Yes	Yes	Yes	Yes	No																
			"720x576"	Yes	Yes	Yes	Yes	Yes	No																
			"640x360"	No	Yes	Yes	Yes	Yes	Yes																
			"480x270"	Yes	No	No	No	No	No																

^{*} Framerate is fixed by resolution.(HM650/HM660/HM8x0/HM200/LS300)

Example

```
{
    "Request" : {
        "Command" : "SetStreamingResolution" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Resolution" : "1920x1080"
        }
    }
}
```

Response

Ke	ey .	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetStreamingResolution	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
{
  "Response" : {
    "Requested" : "SetStreamingResolution" ,
    "Result" : "Success"
  }
}
```

3.1.3. Set streaming framerate

Set streaming framerate.

Current value can be obtained with the 'AvailableStreamingFramerateSettings' command.

Request

Ke	y	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	quest								
	Command	String	SetStreamingFramerate	No	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	Yes	Yes
	Params								
	Framerate	String	"60p" / "60i" / "30p" / "50p" / "50i" / "25p"	No	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "SetStreamingFramerate" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "Framerate" : "60p"
        }
    }
}
```

K	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	esponse								
	Requested	String	SetStreamingFramerate	No	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	No	Yes	Yes	Yes	Yes	Yes

```
Example
{
    "Response" : {
        "Requested" : "SetStreamingFramerate" ,
        "Result" : "Success"
     }
}
```

3.1.4. Set streaming bitrate

Set streaming bitrate

Current value can be obtained with the 'AvailableStreamingBitrateSettings' command.

This command does not reboot the camcorder unlike 'Set streaming resolution' command.

Request

est								
Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	SetStreamingBitrate	Yes	Yes	Yes	Yes	Yes	Yes
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Params								
Bitrate	String	"0.2M"	Yes	No	No	No	No	No
		"0.3M"	Yes	Yes	Yes	Yes	Yes	Yes
		"0.8M"	Yes	Yes	Yes	Yes	Yes	Yes
		"1.5M"	Yes	Yes	Yes	Yes	Yes	Yes
		"2.5M"	Yes	Yes	Yes	Yes	Yes	Yes
		"3.0M"	Yes	Yes	Yes	Yes	Yes	Yes
		"5.0M"	Yes	Yes	Yes	Yes	Yes	Yes
		"8.0M"	Yes	Yes	Yes	Yes	Yes	Yes
		"10M"	Yes	Yes	Yes	Yes	Yes	Yes
		"12M"	Yes	Yes	Yes	Yes	Yes	Yes
		"16M"	No	No	No	No	No	Yes
		"20M"	No	No	No	No	No	Yes

Example { "Request" : { "Command" : "SetStreamingBitrate" , "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" , "Params" : { "Bitrate" : "3.0M" } } }

Ke	у	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetStreamingBitrate	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetStreamingBitrate" ,
        "Result" : "Success"
    }
}
```

3.1.5. Available streaming resolution settings

Get available streaming resolution settings

Settable values are depend on the recording resolution setting of the camcorder.

Request

Κe	ey .	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	equest								
	Command	String	AvailableStreamingResolutionSettings	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example
{
    "Request" : {
        "Command" : "AvailableStreamingResolutionSettings" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
    }
}
```

еу			Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
espo	onse	е								
Re	que	ested	String	AvailableStreamingResolutionSettings	Yes	Yes	Yes	Yes	Yes	Yes
Re	sul	t	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes
Da	ıta									
	Αv	ailableResolution			Yes	Yes	Yes	Yes	Yes	Yes
		1920x1080	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
		1440x1080	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	No
		1280x720	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
		720x480	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	No
		720x576	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	No
		640x360	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes
		480x270	Integer	0 : unselectable , 1 : selectable	Yes	No	No	No	No	No

^{*} Resolution "640x360" is effective in 'GY-HM200', 'GY-LS300', 'GY-HM660', and 'GY-HM8x0'.

```
Example
```

```
{
    "Response" : {
        "Requested" : "AvailableStreamingResolutionSettings" ,
        "Result" : "Success" ,
        "Data" : {
            "AvailableResolution" : {
            "1920x1080" : 1 ,
            "1440x1080" : 0 ,
            "1280x720" : 0 ,
            "720x480" : 0 ,
            "640x360" : 0 ,
            "480x270" : 0 
        }
      }
    }
}
```

^{*} Resolution "480x270" is effective in 'GY-HM650'.

3.1.6. Available streaming framerate settings

Get available streaming framerate settings.

Settable values are depend on the recording resolution setting on the camcorder.

Request

Ke	у	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	quest								
	Command	String	AvailableStreamingFramerateSettings	No	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	Yes	Yes
	Params								
	Resolution	String	"1920x1080"	No	Yes	Yes	Yes	Yes	Yes
			"1280x720"	No	Yes	Yes	Yes	Yes	Yes
			"720x480"	No	Yes	Yes	Yes	Yes	No
			"720x576"	No	Yes	Yes	Yes	Yes	No
			"640x360"	No	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "AvailableStreamingFramerateSettings" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
        "Params" : {
            "Resolution" : "1920x1080"
        }
    }
}
```

Čey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ10
esponse								
Requested	String	AvailableStreamingFramerateSettings	No	Yes	Yes	Yes	Yes	Yes
Result	String	(Result of command processing.)	No	Yes	Yes	Yes	Yes	Yes
Data								
Resolution	String	"1920x1080"	No	Yes	Yes	Yes	Yes	Yes
		"1280x720"	No	Yes	Yes	Yes	Yes	Yes
		"720x480"	No	Yes	Yes	Yes	Yes	No
		"720x576"	No	Yes	Yes	Yes	Yes	No
		"640x360"	No	Yes	Yes	Yes	Yes	Yes
AvailableFramerate								
60p	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes
60i	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes
30p	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes
50p	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes
50i	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes
25p	Integer	0 : unselectable , 1 : selectable	No	Yes	Yes	Yes	Yes	Yes

3.1.7. Available streaming bitrate settings

Get available streaming bitrate settings

Request

JUL								
Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	AvailableStreamingBitrateSettings	Yes	Yes	Yes	Yes	Yes	Yes
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Params								
Туре	String	"UDP" / "UDPN" (PCR Jitter is Normal) / "UDPL"(PCR Jitter is Low) / "TCP"(only HM650) / "RTSP" / "ZIXIM"(Zixi Medium/Minimum/High Latency) / "ZIXIL"(Zixi Low Latency) /	Yes	Yes	Yes	Yes	Yes	Yes
Resolution	String	"RTMP" "1920x1080" / "1440x1080" / "1280x720" / "720x480" /	Yes	Yes	Yes	Yes	Yes	Yes
Framerate	String	"720x576" / "640x360" / "480x270" "60p" / "60i" / "30p" / "50p" / "50i" / "25p"	No	No	No	No	No	Yes

- * High Latency of Type is effective in 'GY-HM660', 'GY-HM200', 'GY-LS300', 'GY-HM8x0', and 'KY-PZ100'.

 * Resolution "640x360" is effective in 'GY-HM200', 'GY-LS300', 'GY-HM660', 'GY-HM8x0', and 'KY-PZ100'.
- * Resolution "480x270" is effective in 'GY-HM650'.
- * Type "TCP" is effective in 'GY-HM650'.
- * Type "UDPN" and "UDPL" are effective in 'GY-HM660', and 'GY-HM8x0'.

Example

```
"Request" : {
 "Command": "Available Streaming \textit{Bitrate Settings"}\ ,
 "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
 "Params" : {
  "Type" : "TCP",
  "Resolution": "1920x1080",
  "Framerate" : "60p"
```

еу	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ10
esponse								
Requested	String	AvailableStreamingBitrateSettings	Yes	Yes	Yes	Yes	Yes	Yes
Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes
Data								
Type	String	"UDP" / "UDPN" (PCR Jitter is Normal) /	Yes	Yes	Yes	Yes	Yes	Yes
		"UDPL"(PCR Jitter is Low) /						
		"TCP"(only HM650) /						
		"RTSP" /						
		"ZIXIM"(Zixi Medium/Minimum/High Latency) /						
		"ZIXIL"(Zixi Low Latency) /						
		"RTMP"						
Resolution	String	"1920x1080" / "1440x1080" / "1280x720" / "720x480" /	Yes	Yes	Yes	Yes	Yes	Yes
		"720x576" / "640x360" / "480x270"						
Framerate	String	"60p" / "60i" / "30p" / "50p" / "50i" / "25p"	No	No	No	No	No	Yes
AvailableBitrate								
0.2M	Integer	0 : unselectable , 1 : selectable	Yes	No	No	No	No	No
0.3M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
0.8M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
1.5M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
2.5M	Integer	0 : unselectable , 1 : selectable	No	No	No	No	No	No
3.0M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
5.0M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
8.0M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
10M	Integer	0 : unselectable , 1 : selectable	No	No	No	No	No	No
12M	Integer	0 : unselectable , 1 : selectable	Yes	Yes	Yes	Yes	Yes	Yes
16M	Integer	0 : unselectable , 1 : selectable	No	No	No	No	No	Yes
20M	Integer	0 : unselectable , 1 : selectable	No	No	No	No	No	Yes

- * High Latency of Type is effective in 'GY-HM660', 'GY-HM200', 'GY-LS300', 'GY-HM8x0', and 'KY-PZ100'.
- * Resolution "640x360" is effective in 'GY-HM200', 'GY-LS300', 'GY-HM660', 'GY-HM8x0', and 'KY-PZ100'.
- * Resolution "480x270" is effective in 'GY-HM650'.

* Type "TCP" is effective in 'GY-HM650'.

* Type "UDPN" and "UDPL" are effective in 'GY-HM660'.

```
"Response" : {
 "Requested": "AvailableStreamingBitrateSettings",
 "Result": "Success",
 "Data" : {
  "Type" : "TCP" ,
  "Resolution" : "1920x1080",
"Framerate" : "60p",
  "AvailableBitrate" : {
   "0.2M" : 0 ,
   "0.3M" : 0 ,
   "0.8M" : 0 ,
   "1.5M" : 0 ,
   "2.5M" : 0 ,
   "3.0M":1,
   "5.0M":1,
   "8.0M" : 1 ,
   "10M":0,
   "12M" : 1,
   "16M" : 1,
   "20M" : 1
}
```

3.1.8. Get current streaming server number

Get current streaming server ID.

There are four settings of streaming server .

Request

COL									
Ke	y	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	equest								
	Command	String	GetCurrentStreamingServerID	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "GetCurrentStreamingServerID" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
     }
}
```

0115	E								
Ke	y	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	GetCurrentStreamingServerID	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes
	Data								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "GetCurrentStreamingServerID" ,
        "Result" : "Success" ,
        "Data" : {
        "ID" : 3
        }
    }
}
```

3.1.9. Set current streaming server number

Set current streaming server ID. Choose the server ID to use in streaming.

Request

Ke	ey .	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	equest								
	Command	String	SetCurrentStreamingServerID	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
	Params								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "SetCurrentStreamingServerID ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 3
        }
    }
}
```

Ke	У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetCurrentStreamingServerID	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetCurrentStreamingServerID" ,
        "Result" : "Success"
     }
}
```

3.1.10. Get streaming server settings

Get streaming settings for each server ID.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Requ	est								
Co	ommand	String	GetStreamingServerSettings	Yes	Yes	Yes	Yes	Yes	Yes
Se	essionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Pa	arams								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "GetStreamingServerSettings" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 1
        }
    }
}
```

Response

e										
ЭУ			Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ10
espo										
Re	qu	ested	String	GetStreamingServerSettings	Yes	Yes	Yes	Yes	Yes	Yes
	sul	lt	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes
Da	ta									
	Ali	ias	String	(Another name of server)	Yes	Yes	Yes	Yes	Yes	Yes
	_	/pe	String	"UDP" / "TCP"/ "RTSP"/ "ZIXI"/ "RTMP"	Yes	Yes	Yes	Yes	Yes	Yes
	Ud	dp		(Selected by Type)						
		DstAddress	String	(IP address)	Yes	Yes	Yes	Yes	Yes	Yes
		DstPort	Integer	(Port number)	Yes	Yes	Yes	Yes	Yes	Yes
		PcrJitter	Integer	0:NORMAL, 1:LOW	No	Yes	Yes	Yes	Yes	No
	To	p		(Selected by Type)						
		DstAddress	String	(IP address)	Yes	No	No	No	No	No
		DstPort	Integer	(Port number)	Yes	No	No	No	No	No
	Rt	sp		(Selected by Type)						
		DstPort	Integer	(Port number)	Yes	Yes	Yes	Yes	Yes	Yes
		StreamId	String	(Stream ID)	Yes	Yes	Yes	Yes	Yes	Yes
		Username	String	(User name)	Yes	Yes	Yes	Yes	Yes	Yes
		Password	String	(Password for RTSP/RTP)	Yes	Yes	Yes	Yes	Yes	Yes
	Zix	xi		(Selected by Type)						
		DstAddress	String	(IP address)	Yes	Yes	Yes	Yes	Yes	Yes
		DstPort	Integer	(Port number)	Yes	Yes	Yes	Yes	Yes	Yes
		StreamId	String	(Stream ID for ZIXI)	Yes	Yes	Yes	Yes	Yes	Yes
		Password	String	(Password for ZIXI)	Yes	Yes	Yes	Yes	Yes	Yes
		Latency	Integer	0:Low, 1:Medium, 2:Minimum(Zixi OFF), 3:High	Yes	Yes	Yes	Yes	Yes	Yes
		AdaptiveBitrate	Integer	0:OFF, 1:ON	Yes	Yes	Yes	Yes	Yes	Yes
	Rt	mp		(Selected by Type)						
		DstUrl	String	(Network URL for Delivery)	Yes	Yes	Yes	Yes	Yes	Yes
		StreamKey	String	(Key for Delivery)	Yes	Yes	Yes	Yes	Yes	Yes
	Rt	p		(Selected by Type)						
		DstAddress	String	(IP address)	No	Yes	Yes	Yes	Yes	Yes
		DstPort	Integer	(Port number)	No	Yes	Yes	Yes	Yes	Yes
		Smpte2022Fec	_	0:OFF, 1:ON	No	Yes	Yes	Yes	Yes	Yes
		FecMatrixL		4 - 20	No	Yes	Yes	Yes	Yes	Yes
		FecMatrixR	Integer	420	No	Yes	Yes	Yes	Yes	Yes

^{*} Type "TCP" is effective in 'GY-HM650'.

```
{
  "Response" : {
    "Requested" : "GetStreamingServerSettings" ,
    "Result" : "Success" ,
    "Data" : {
        "Alias" : "Server1" ,
        "Tcp" : {
        "DstAddress" : "192.168.0.1" ,
```

```
"DstPort" : 6504
}
}
}
```

3.1.11. Set streaming server settings(UDP)

Set streaming settings for each server ID.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Requ	est								
Co	mmand	String	SetStreamingServerSettingsUDP	Yes	Yes	Yes	Yes	Yes	Yes
Se	essionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Pa	arams								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes
	Alias	String	(Another name of server)	Yes	Yes	Yes	Yes	Yes	Yes
	DstAddress	String	(IP address)	Yes	Yes	Yes	Yes	Yes	Yes
	DstPort	Integer	(Port number)	Yes	Yes	Yes	Yes	Yes	Yes
	PcrJitter	Integer	0:NORMAL, 1:LOW	No	Yes	Yes	Yes	Yes	No

Example

```
{
    "Request" : {
        "Command" : "SetStreamingServerSettingsUDP" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 1 ,
        "Alias" : "Server1" ,
        "DstAddress": "192.168.0.1" ,
        "DstPort": 6504,
        "PcrJitter": 1
      }
    }
}
```

Response

Ke	У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetStreamingServerSettingsUDP	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
{
    "Response" : {
        "Requested" : "SetStreamingServerSettingsUDP" ,
        "Result" : "Success"
    }
}
```

3.1.12. Set streaming server settings(TCP)

Set streaming settings for each server ID. Type "TCP" is effective in 'GY-HM650'.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Requ	uest								
C	Command	String	SetStreamingServerSettingsTCP	Yes	No	No	No	No	No
S	SessionID	String	(Session ID in cookie.)	Yes	No	No	No	No	No
P	arams								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	No	No	No	No	No
	Alias	String	(Another name of server)	Yes	No	No	No	No	No
	DstAddress	String	(IP address)	Yes	No	No	No	No	No
	DstPort	Integer	(Port number)	Yes	No	No	No	No	No

Example

```
{
    "Request" : {
        "Command" : "SetStreamingServerSettingsTCP" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 1 ,
        "Alias" : "Server1" ,
        "DstAddress": "192.168.0.1" ,
        "DstPort": 6504
        }
    }
}
```

Response

Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetStreamingServerSettingsTCP	Yes	No	No	No	No	No
	Result	String	(Result of command processing.)	Yes	No	No	No	No	No

Example {

```
{
    "Response" : {
        "Requested" : "SetStreamingServerSettingsTCP" ,
        "Result" : "Success"
    }
}
```

3.1.13. Set streaming server settings(RTSP/RTP)

Set streaming settings for each server ID.

Request

COL									
Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Requ	iest								
С	ommand	String	SetStreamingServerSettingsRTSP	Yes	Yes	Yes	Yes	Yes	Yes
S	essionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
P	arams								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes
	Alias	String	(Another name of server)	Yes	Yes	Yes	Yes	Yes	Yes
	Password	String	(Password for RTSP/RTP)	Yes	Yes	Yes	Yes	Yes	Yes

Example

```
{
    "Request" : {
        "Command" : "SetStreamingServerSettingsRTSP" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 1 ,
        "Alias" : "Server1" ,
        "Password": "abcde"
        }
    }
}
```

Response

K	еу	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
R	esponse								
	Requested	String	SetStreamingServerSettingsRTSP	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

Example { "Response" : { "Requested" : "SetStreamingServerSettingsRTSP" , "Result" : "Success" } }

3.1.14. Set streaming server settings(ZIXI)

Set streaming settings for each server ID.

Request

COL									
Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Req	uest								
(Command	String	SetStreamingServerSettingsZIXI	Yes	Yes	Yes	Yes	Yes	Yes
5	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
F	Params								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes
	Alias	String	(Another name of server)	Yes	Yes	Yes	Yes	Yes	Yes
	DstAddress	String	(IP address)	Yes	Yes	Yes	Yes	Yes	Yes
	DstPort	Integer	(Port number)	Yes	Yes	Yes	Yes	Yes	Yes
	StreamId	String	(Stream ID for ZIXI)	Yes	Yes	Yes	Yes	Yes	Yes
	Password	String	(Password for ZIXI)	Yes	Yes	Yes	Yes	Yes	Yes
	Latency	Integer	0:Low, 1:Medium, 2:Minimum(Zixi OFF), 3:High	Yes	Yes	Yes	Yes	Yes	Yes
	AdaptiveBitrate	Integer	0:OFF, 1:ON	Yes	Yes	Yes	Yes	Yes	Yes

^{*} High Latency of Type is effective in 'GY-HM660', 'GY-HM200', 'GY-LS300', 'GY-HM8x0', and 'KY-PZ100'.

Example

```
"Request": {
    "Command": "SetStreamingServerSettingsZIXI",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
        "ID": 1,
        "Alias": "Server1",
        "DstAddress": "192.168.0.1",
        "DstPort": 2088,
        "StreamId": "HM650-1234",
        "Password": "abcde",
        "Latency": 1,
        "AdaptiveBitrate": 0
    }
}
```

Response

Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Response								
Requested	String	SetStreamingServerSettingsZIXI	Yes	Yes	Yes	Yes	Yes	Yes
Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
{
    "Response" : {
        "Requested" : "SetStreamingServerSettingsZIXI" ,
        "Result" : "Success"
    }
}
```

3.1.15. Set streaming server settings(RTMP)

Set streaming settings for each server ID.

Request

ESI								
Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	d String	SetStreamingServerSettingsRTMP	Yes	Yes	Yes	Yes	Yes	Yes
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Params								
ID	Intege	0:server1, 1: server2, 2: server3, 3: server4	Yes	Yes	Yes	Yes	Yes	Yes
Alias	String	(Another name of server)	Yes	Yes	Yes	Yes	Yes	Yes
DstUrl	String	(Network URL for Delivery)	Yes	Yes	Yes	Yes	Yes	Yes
Stream	nKey String	(Key for Delivery)	Yes	Yes	Yes	Yes	Yes	Yes

Example

```
{
    "Request" : {
        "Command" : "SetStreamingServerSettingsRTMP" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 1 ,
        "Alias" : "Server1" ,
        "DstUrl": "rtmp://xxxx.xxxx.xxxx.com/play" ,
        "StreamKey: "livestreaming"
        }
    }
}
```

Response

UHO	51136								
Κe	ey .	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetStreamingServerSettingsRTMP	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
{
    "Response" : {
        "Requested" : "SetStreamingServerSettingsRTMP" ,
        "Result" : "Success"
    }
}
```

3.1.16. Set streaming server settings(RTP)

Set streaming settings for each server ID.

Request

esi									
Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	quest								
	Command	String	SetStreamingServerSettingsRTP	No	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	Yes	Yes
	Params								
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	No	Yes	Yes	Yes	Yes	Yes
	Alias	String	(Another name of server)	No	Yes	Yes	Yes	Yes	Yes
	DstAddress	String	(IP address)	No	Yes	Yes	Yes	Yes	Yes
	DstPort	Integer	(Port number)	No	Yes	Yes	Yes	Yes	Yes
	Smpte2022Fec	Integer	0:OFF, 1:ON	No	Yes	Yes	Yes	Yes	Yes
	FecMatrixL	Integer	4 - 20	No	Yes	Yes	Yes	Yes	Yes
	FecMatrixD	Integer	4 - 20	No	Yes	Yes	Yes	Yes	Yes

^{*} FecMatorixL and FecMatrixD value are satisfy AxB=100 condition.

Example

```
{
    "Request" : {
        "Command" : "SetStreamingServerSettingsRTP" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : 1 ,
        "Alias" : "Server1" ,
        "DstAddress": "192.168.0.1" ,
        "DstPort": 2088,
        "Smpte2022Fec": 1 ,
        "FecMatrixL": 10 ,
        "FecMatrixD": 10
    }
}
```

Κe	Э У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetStreamingServerSettingsRTP	No	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	No	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetStreamingServerSettingsRTP" ,
        "Result" : "Success"
     }
}
```

3.2.1. Get System Information

System information acquisition

Request

icsi									
Κe	э у	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	equest								
	Command	String	GetSystemInfo	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "GetSystemInfo " ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
     }
}
```

ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
esponse								
Requested	String	GetSystemInfo	Yes	Yes	Yes	Yes	Yes	Yes
Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes
Data								
Model	String	Model information	Yes	Yes	Yes	Yes	Yes	Yes
Model	String	"UNKNOWN" / "HM650"(GY-HM650) /	Yes	Yes	Yes	Yes	Yes	Yes
		"HM850"(GY-HM850) / "HM890"(GY-HM890) /						
		"HM200"(GY-HM200) / "LS300"(GY-LS300) /						
		"HM660"(GY-HM660) / "PZ100"(KY-PZ100)						
Destination	String	Place of destination	Yes	Yes	Yes	Yes	Yes	Yes
		"JP"(Japan) / "US"(USA · Canada) / "KR"(Korea) /						
		"EU"(Southern Europe, Central Europe) / "ER"(Russia) /						
		"AC"(China) / "AA"(Australia) / "AG"(Asian) /						
		"TW"(Taiwan) / "AS"(Saudi Arabia) / "UC"(Canada) /						
		"UA"(Argentina) / "UB"(Brazil) / "EZ"(East Europe) /						
		"EY"(Northern Europe) / "EK"(China) / "EF"(France) /						
		"AH"(Hong Kong) /						
		"UN"(Format SD,NTSC/PAL both format)						
ApiVersion	String	Version "XX.YYY.ZZZ"	Yes	Yes	Yes	Yes	Yes	Yes
		(XX:Major ver. YYY:Minor ver. ZZZ:Development ver)						
Overlay	String	Overlay option	No	No	No	Yes	No	No
		"On" / "Off"						
Tagging	String	Tagging option	Yes	Yes	No	No	No	No
		"On" / "Off"						

```
Example

{
    "Response" : {
        "Requested" : "GetSystemInfo " ,
        "Result" : "Success" ,
        "Data" : {
             "Model" : "HM650" ,
             "Destination" : "JP" ,
             "ApiVersion" : "0.13.0",
             "Tagging" : "Off"
        }
    }
}
```

3.2.2. Session renewal

Renew a session

Updating session is needed within 25 seconds as always.

This command has become obsolete and session renewal is no longer required.

Please don't use this command because it causes malfunction on Web access.

Request

COL									
Ke	y	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	quest								
	Command	String	SessionRenewal	Yes	No	No	No	No	No
	SessionID	String	(Session ID in cookie.)	Yes	No	No	No	No	No
	Params								
	Update	Integer	0:False(Time-out immediately)	Yes	No	No	No	No	No
			1:True(Time-out extension)						

```
Example

{
    "Request" : {
        "Command" : "SessionRenewal " ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Update" : 1
        }
    }
}
```

K	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	esponse								
	Requested	String	SessionRenewal	Yes	No	No	No	No	No
	Result	String	(Result of command processing.)	Yes	No	No	No	No	No

```
{
    "Response" : {
        "Requested" : "SessionRenewal" ,
        "Result" : "Success"
     }
}
```

3.2.3. Get preset zoom position

Acquire the preset zoom position.

Request

Key	Style	Value	HM6	50 HM660	0x8MH (HM200	LS300	PZ100
Request								
Command	String	GetPresetZoomPosition	Yes	Yes	Yes	Yes	Yes	No
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	No

```
Example

{
    "Request" : {
        "Command" : "GetPresetZoomPosition" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
     }
}
```

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Res	ponse								
F	Requested	String	GetPresetZoomPosition	Yes	Yes	Yes	Yes	Yes	No
F	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	No
	Data								
	A	Integer	Value of Preset "0" - "499",no-setting "-1"	Yes	Yes	Yes	Yes	Yes	No
	В	Integer	Value of Preset "0" - "499",no-setting "-1"	Yes	Yes	Yes	Yes	Yes	No
	С	Integer	Value of Preset "0" - "499",no-setting "-1"	Yes	Yes	Yes	Yes	Yes	No

```
Example

{
    "Response" : {
        "Requested" : "GetPresetZoomPosition" ,
        "Result" : "Success" ,
        "Data" : {
        "A" : 10 , "B" : 20 , "C" : 30
        }
    }
}
```

3.2.4. Set preset zoom position

Preset the zoom position.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Requ	est								
Co	ommand	String	SetPresetZoomPosition	Yes	Yes	Yes	Yes	Yes	No
Se	essionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	No
Pa	arams								
	ID	String	"A"/"B"/"C" is Preset ID	Yes	Yes	Yes	Yes	Yes	No
	Position	Integer	Value of Preset "0" - "499", delete setting is "-1"	Yes	Yes	Yes	Yes	Yes	No

```
Example

{
    "Request" : {
        "Command" : " SetPresetZoomPosition" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "ID" : "A" ,
        "Position" : 300
        }
    }
}
```

Response

Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetPresetZoomPosition	Yes	Yes	Yes	Yes	Yes	No
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	No

```
Example
{
    "Response" : {
        "Requested" : "SetPresetZoomPosition" ,
        "Result" : "Success"
     }
}
```

3.2.5. Set tally lamp priority

This command was moved to "3.7.3. Set tally lamp priority".

3.3.1. Get camera status

Request all status information of camera function. It is recommended to use this command every 500 msec or above. Unnecessary use of this command make performance degradation.

Request

Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	equest								
	Command	String	GetCamStatus	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example
{
    "Request" : {
        "Command" : "GetCamStatus" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
    }
}
```

	Style	Value	HM650	HM660	HM8x0	HM200	LS300	F
oonse								Ī
equested	String	GetCamStatus						T
esult	String	(Result of command processing.)						Ť
ata			Yes	Yes	Yes	Yes	Yes	,
Camera		(Camera)	Yes	Yes	Yes	Yes	Yes	,
Status	String	Status "NoCard"(no card inserted) / "Stop"(recording stop) / "Standby"(record standby) / "Rec"(recording)/ "RecPause"(recording pause)	Yes	Yes	Yes	Yes	Yes	,
Mode	String	Mode "Camera"(record mode) / "Thmubnail"(display thmubnail) / "Play"(play clip) / "Review"(review clip) / "USB"(connect USB) / "EditMetadata"(edit metadata)	Yes	Yes	Yes	Yes	Yes	,
RecMode	String	Rec mode "Normal" / "Pre" / "Clip" / "Frame" / "Interval" / "Variable"	Yes	Yes	Yes	Yes	Yes	
TC	String	recording time(sec)(32bit length)	Yes	Yes	Yes	Yes	Yes	ı
AspectRatio	String	Aspect ratio "16:9" / "4:3"	Yes	Yes	Yes	Yes	Yes	
WebAccess	String	Web access "Off" / "On"	Yes	Yes	Yes	Yes	Yes	T
VideoOutputS	tatus String	Video output status of camera "Off" / "On"	No	No	No	No	No	I
MenuStatus	String	Menu Open status of camera "Off" / "On"	No	Yes	Yes	Yes	No	I
FullAuto			Yes	Yes	Yes	Yes	Yes	
Status	String	Status "Off" / "On" / "Preset"	Yes	Yes	Yes	Yes	Yes	I
Exposure			No	No	No	No	No	ľ
Status	String	Exposure "Auto" / "Manual" / "IrisPriority" / "ShutterPriority"	No	No	No	No	No	
Iris			Yes	Yes	Yes	Yes	Yes	
Status	String	Mode "Manual" / "Auto" / "AutoAELock"	Yes	Yes	Yes	Yes	Yes	
		"Auto" / "Manual"	No	No	No	No	No	
Value	String	Character string for iris value	Yes	Yes	Yes	Yes	Yes	ľ
Ga <u>in</u>			Yes	Yes	Yes	Yes	Yes	ľ
Status	String	Mode "ManualL" / "ManualM" / "ManualH" / "Alc / "AlcAELock" / "Lolux" / "Variable"	Yes	Yes	Yes	Yes	Yes	
1	0	"Auto" / "Manual"	No	No	No	No	No	1
Value	String	Character string for gain value	Yes	Yes	Yes	Yes	Yes	1
AeLevel	Otario	14 - 14 0(11/114 0 11/114 0 5	Yes	Yes	Yes	Yes	Yes	ľ
Status	String	Mode "AeOff" / "AeOn" / "AeOnFace"	Yes	Yes	Yes	Yes	Yes	1
Adjust	String	AE Level adjustment "On" / "Off"	Yes	Yes	Yes	Yes	Yes	1
Value	String	Character string for AE level value	Yes	Yes	Yes	Yes	Yes	ľ
Shutter	0.1		Yes	Yes	Yes	Yes	Yes	1
Status	String	Mode "Off" / "Manual" / "Step" / "Variable" / "Eei" / "EeiAELock"	Yes	Yes	Yes	Yes	Yes	
		"Auto" / "Manual"	No	No	No	No	No	ľ
Value	String	Character string for Shutter value	Yes	Yes	Yes	Yes	Yes	١

Vh <u>b</u>			Yes	Yes	Yes	Yes	Yes	Yes
Status	String	Mode "Preset"/"A"/"B"/"Faw"/"FawAELock"	Yes	Yes	Yes	Yes	Yes	No
		"Faw" / OnePush" / "3200K" / "5600K" / "Manual"	No	No	No	No	No	Yes
Value	String	Character string for White Balance value	Yes	Yes	Yes	Yes	Yes	Yes
WhPRScale		Slide bar total length for White paint Red(0-64)	Yes	Yes	Yes	Yes	Yes	Yes
WhPBScale	Integer	Slide bar total length for White paint Blue(0-64)	Yes	Yes	Yes	Yes	Yes	Yes
WhPRPosition	Integer	Slide bar current position for White paint Red(0-64)	Yes	Yes	Yes	Yes	Yes	Yes
WhPBPosition		Slide bar current position for White paint Blue(0-64)	Yes	Yes	Yes	Yes	Yes	Yes
WhPRValue	String	Character string for White paint Red value	Yes	Yes	Yes	Yes	Yes	Yes
WhPBValue	String	Character string for White paint Blue value	Yes	Yes	Yes	Yes	Yes	Yes
Coom	9	Character string for wrinte paint blue value	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic	String	Dynamic Zoom Status "On" / "Off"	No	No	No	Yes	No	No
DynamicPos		Dynamic Zoom Position(0-499)	No	No	No	Yes	No	No
Position		Zoom position (0-499, for Slider button position)	Yes	Yes	Yes	Yes	Yes	Yes
DisplayValue	String	Character string for Zoom value "Z0 – Z149"	Yes	Yes	Yes	Yes	Yes	Yes
		(GY-HM200/LS300 F-number "0 - 9999mm")						
anTilt			No	No	No	No	No	Yes
SpeedWithZoom	String	Speed With Zoom Status "On" / "Off"	No	No	No	No	No	Yes
PresetSpeed		Pan/Tilt/Preset speed (1-30)	No	No	No	No	No	Yes
ocus		()	Yes	Yes	Yes	Yes	Yes	Yes
Status	String	Mode "AFFace" / "AF" / "MFOnePush" / "MF" /	Yes	Yes	Yes	Yes	Yes	No
Clarao	3	"MFFace"	1.00	. 55	. 55	. 55	. 55	
		"Auto" / "Manual"	No	No	No	No	No	Yes
Value	String							+
Value	Jung	Character string for Focus value	Yes	Yes	Yes	Yes	Yes	Yes
/lasterBlack	0		No	Yes	Yes	Yes	No	No
Value	String	Character string for MasterBlack value	No	Yes	Yes	Yes	No	No
)e <u>tail</u>			No	Yes	Yes	Yes	No	Yes
Value	String	Character string for Detail value	No	Yes	Yes	Yes	No	Yes
Streaming			Yes	Yes	Yes	Yes	Yes	Yes
Status	String	Status	Yes	Yes	Yes	Yes	Yes	Yes
		"Stop"(Streaming has stopped or cannot be started.) /						
		"Stopping"(About to stop.) /						
		"Start"(Streaming has started.) /						
		"Starting"(About to start.) /						
		"Waiting"(Waiting for connection. (for RTSP/RTP)) /						
Night ("Error"(Error occurred.)	Vo-	Vas	Vac	Vo-	Vo-	NI-
Disptv	Ctring	, , , , , , , , , , , , , , , , , , ,	Yes	Yes	Yes	Yes	Yes	No
Status	String	Status "On" / "Off"	Yes	Yes	No	Yes	Yes	No
Status CharacterMix		Status "On" / "Off"	Yes No	Yes No	No Yes	Yes No	Yes No	No No
Status CharacterMix Sdi	String	Status "On" / "Off" Mix "On" / "Off"	Yes	Yes	No	Yes	Yes	No
Status CharacterMix	String	Status "On" / "Off"	Yes No	Yes No	No Yes	Yes No	Yes No	No No
Status CharacterMix Sdi	String	Status "On" / "Off" Mix "On" / "Off"	Yes No No	Yes No No	No Yes Yes	Yes No No	Yes No No	No No No
Status CharacterMix Sdi Hdmi Video	String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off"	Yes No No No	Yes No No No	No Yes Yes Yes	Yes No No No	Yes No No No	No No No No
Status CharacterMix Sdi Hdmi Video fallyLamp	String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off"	Yes No No No No No Yes	Yes No No No No Yes	No Yes Yes Yes Yes Yes	Yes No No No No Yes	Yes No No No No Yes	No No No No No Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority	String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web"	Yes No No No No Yes Yes	Yes No No No No Yes Yes	No Yes Yes Yes Yes Yes Yes	Yes No No No No Yes Yes	Yes No No No No Yes Yes	No No No No No Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority Lighting	String String String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off"	Yes No No No No Yes Yes Yes	Yes No No No No Yes Yes Yes	No Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes Yes Yes	Yes No No No No Yes Yes Yes	No No No No No Yes Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority Lighting StudioTally	String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview"	Yes No No No No Yes Yes Yes No	Yes No No No No Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes	Yes No No No No Yes Yes Yes No	No No No No No Yes Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority Lighting StudioTally	String String String String String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA)	Yes No No No No Yes Yes Yes No Yes	Yes No No No No Yes Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes Yes	Yes No No No No Yes Yes Yes No Yes	No No No No Yes Yes Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority Lighting StudioTally	String String String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" /	Yes No No No No Yes Yes Yes No	Yes No No No No Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes	Yes No No No No Yes Yes Yes No	No No No No No Yes Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority Lighting StudioTally	String String String String String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA)	Yes No No No No Yes Yes Yes No Yes	Yes No No No No Yes Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes Yes	Yes No No No No Yes Yes Yes No Yes	No No No No Yes Yes Yes
Status CharacterMix Sdi Hdmi Video fallyLamp Priority Lighting StudioTally	String String String String String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" /	Yes No No No No Yes Yes Yes No Yes	Yes No No No No Yes Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes Yes	Yes No No No No Yes Yes Yes No Yes	No No No No Yes Yes Yes
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect	String String String String String String String String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock"	Yes No No No No Yes Yes Yes No Yes Yes Yes	Yes No No No No Yes Yes Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes Yes Yes No Yes Yes Yes	No No No No No Yes Yes Yes No
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain	String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535)	Yes No No No No Yes Yes No Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No Yes	Yes No No No No Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes	No No No No No No Yes Yes Yes No No
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum	String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000)	Yes No No No No Yes Yes Yes Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No No No No No No Yes Yes Yes No
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning	String	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning)	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No No No No No Yes Yes No No No No
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status	String String String String String String String String String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of SlotB)	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning	String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" /	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status	String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "NoSelectRec" / "Invalid" / "Unknown"	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status	String String String String String String String String String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" /	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No No No No No No No No Yes Yes Yes No No No No No No No No Yes Yes
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status	String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "NoSelectRec" / "Invalid" / "Unknown"	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain RemainWarning StotB Status	String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535)	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum ClipNum RemainWarning Status	String Integer String String Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000)	Yes No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String String String	Status "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning)	Yes No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No No No No No No Yes Yes No No No No Yes
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status	String Integer Integer String String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of SlotB) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery)	Yes No No No No No Yes Yes No Yes	Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification	Yes No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status	String Integer Integer String String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time"(minutes) / "Capacity"(%) / "Voltage"(V)	Yes No No No No No Yes Yes No Yes	Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status Protect Remain ClipNum RemainWarning Status	String Integer Integer String String Integer Integer	Status "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification	Yes No No No No No Yes Yes No Yes	Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of SlotB) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time"(minutes) / "Capacity"(%) / "Voltage"(V) Battery Level	Yes No No No No No Yes	Yes No No No No Yes	No Yes	Yes No No No No Yes	Yes No No No No Yes Yes No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time"(minutes) / "Capacity"(%) / "Voltage"(V) Battery Level 0:no battery / 1:plug / 2:plug[!] / 3:battery[?] /	Yes No No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time"(minutes) / "Capacity"(%) / "Voltage"(V) Battery Level 0:no battery / 1:plug / 2:plug[!] / 3:battery[?] / 4:battery[CAL] / 5:battery[empty] / 6:battery[low] /	Yes No No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes Yes No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time" (minutes) / "Capacity" (%) / "Voltage" (V) Battery Level 0:no battery / 1:plug / 2:plug[!] / 3:battery[?] / 4:battery[CAL] / 5:battery[empty] / 6:battery[low] / 7:battery[middle] / 8:battery[full] /	Yes No No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time"(minutes) / "Capacity"(%) / "Voltage"(V) Battery Level 0:no battery / 1:plug / 2:plug[!] / 3:battery[?] / 4:battery[CAL] / 5:battery[empty] / 6:battery[low] / 7:battery[middle] / 8:battery[full] / 9:battery[no segments] /	Yes No No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time" (minutes) / "Capacity" (%) / "Voltage" (V) Battery Level 0:no battery / 1:plug / 2:plug[!] / 3:battery[?] / 4:battery[CAL] / 5:battery[empty] / 6:battery[low] / 7:battery[middle] / 8:battery[full] /	Yes No No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N
Status CharacterMix Sdi Hdmi Video FallyLamp Priority Lighting StudioTally StotA Status Protect Remain ClipNum RemainWarning StotB Status Protect Remain ClipNum RemainWarning StotB Status	String Integer Integer String Integer	Status "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Mix "On" / "Off" Priority "Camera" / "Web" Lighting "On" / "Off" Status "Off" / "Program" / "Preview" (Status of SlotA) Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Select" / "NoSelect" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock" Remaining amount time(minutes) (0-65535) Number of clips(0-4000) Remaining amount warning(0=No warning/1=Warning) (Status of Battery) Battery information display classification "Time"(minutes) / "Capacity"(%) / "Voltage"(V) Battery Level 0:no battery / 1:plug / 2:plug[!] / 3:battery[?] / 4:battery[CAL] / 5:battery[empty] / 6:battery[low] / 7:battery[middle] / 8:battery[full] / 9:battery[no segments] /	Yes No No No No No Yes	Yes No No No No Yes	No	Yes No No No No Yes	Yes No No No No Yes	No N

			13∶charging battery [full] / 14∶charging battery [no segments]	No No	Yes Yes	No No	Yes Yes	Yes Yes	No No
\/a	lue	String	Remaining amount time	Yes	Yes	Yes	Yes	Yes	No
٧a	iue	og	(minutes/ % / Voltage、-1 is impossible get)(0-1000)	163	163	163	163	163	INO
able	e		(Availability of function button switches)	Yes	Yes	Yes	Yes	Yes	Ye
_	llauto		(Fullauto function)	Yes	Yes	Yes	Yes	Yes	No
	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	On	Integer	button "ON" switch of fullauto 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Off	Integer	button "OFF" switch of fullauto 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Preset		button "PRESET" switch of fullauto 0:Disable, 1:Enable	No	No	No	No	Yes	No
Ex	posure		(Exposure function)	No	No	No	No	No	Ye
	Enable	Integer	switch 0:Disable, 1:Enable	No	No	No	No	No	No
	Auto	Integer	button "Atuo" switch of fullauto 0:Disable, 1:Enable	No	No	No	No	No	Ye
	Manual		button "Manual" switch of fullauto 0:Disable, 1:Enable	No	No	No	No	No	Ye
	ShutterPriority		button ShutterPriority" switch of fullauto	No	No	No	No	No	Ye
			0:Disable, 1:Enable						
	IrisPriority	Integer	button "IrisPriority" switch of fullauto	No	No	No	No	No	Ye
	-		0:Disable, 1:Enable						
Iris			(Iris function)	Yes	Yes	Yes	Yes	Yes	Ye
	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	StatusDisp	Integer	Display Value of iris 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
	Manual		button "MANUAL" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	Auto		button "AUTO" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	Open1		button ">" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	Open2	Integer	button ">>" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Open3	Integer	button ">>>" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Close1		button "<" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	Close2		button "<<" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Close3		button "<<<" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	PushAuto		button "Push Auto" switch of iris 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
Ga			(Gain function)	Yes	Yes	Yes	Yes	Yes	Ye
	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	StatusDisp	Integer	Display Value of gain 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
	Manual	Integer	button "MANUAL" switch of gain 0:Disable, 1:Enable	Yes	Yes	No	No	No	Ye
	Auto		button "AUTO" switch of gain 0:Disable, 1:Enable	No	No	No	No	No	Ye
	Lolux	Integer	button "LOLUX" switch of gain 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Variable		button "Variable" switch of gain 0:Disable, 1:Enable	No	No	No	No	Yes	No
	L		button "L" switch of gain 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	M		button "M" switch of gain 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Н	Integer	button "H" switch of gain 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Up1	Integer	button "Up1" switch of gain 0:Disable, 1:Enable	No	Yes	Yes	Yes	Yes	Ye
	Up2		button "Up2" switch of gain 0:Disable, 1:Enable	No	No	No	No	Yes	No
	Down1		button "Down1" switch of gain 0:Disable, 1:Enable	No	Yes	Yes	Yes	Yes	Ye
	Down2		button "Down2" switch of gain 0:Disable, 1:Enable	No	No	No	No	Yes	No
Ae	Level		(AE Level function)	Yes	Yes	Yes	Yes	Yes	Ye
	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	StatusDisp	Integer	Display Value of AELevel 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
	Up		button "A" switch of AElevel 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	Down		button "V" switch of AElevel 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	AdjustOn	Integer	button "ON" switch of AElevel 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
	AdjustOff	Integer	button "OFF" switch of AElevel 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
Sh	utter	3	(Shutter function)	Yes	Yes	Yes	Yes	Yes	Ye
J11	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	StatusDisp		Display Value of Shutter 0:Disable, 1:Enable)	No	No	No	Yes	Yes	No
	Off		button "OFF" switch of shatter 0:Disable, 1:Enable	Yes	Yes	Yes	No	No	No
	Manual		button "MANUAL" switch of shatter 0:Disable, 1:Enable	Yes	Yes	No	No	No	No
	Step		button "STEP" switch of shatter 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	Variable		button "VRIABLE" switch of shatter 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	Eei		button "EEI" switch of shatter 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Slower		button "A" switch of shatter 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
	Faster	Integer	button "V" switch of shatter 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Ye
Wł			(White balance function)	Yes	Yes	Yes	Yes	Yes	Ye
v V í	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	StatusDisp	Integer	Display Value of White balance 0:Disable, 1:Enable	No	No	res No	Yes	Yes	No
	Manual		button "MANUAL" switch of White balance	Yes	Yes	No	Yes No	Yes No	Ye
	iviaiiudi	cyel		162	162	INU	INU	140	16
			0:Disable, 1:Enable	1	1			 	Ye
	Fow	Integer	button "EAM" quitab of Mbita balance	V	Ve-	NIc	NIc		
	Faw	Integer	button "FAW" switch of White balance	Yes	Yes	No	No	No	re
			0:Disable, 1:Enable						
	Faw Preset			Yes Yes	Yes Yes	No Yes	No Yes	No Yes	No

_									
-	B Awb		button "B" switch of White balance 0:Disable, 1:Enable button "AWB" switch of White balance	Yes No	Yes No	Yes No	Yes No	Yes No	No Yes
L	PushAuto	Integer	0:Disable, 1:Enable button "OnePushTrigger" switch of White balance	Yes	Yes	Yes	Yes	Yes	Yes
			0:Disable, 1:Enable						
	K3200		button "3200K" switch of White balance 0:Disable, 1:Enable	No	No	No	No	No	Yes
	K5600	Integer	button "5600K" switch of White balance 0:Disable, 1:Enable	No	No	No	No	No	Yes
	WhPaintRP		button " ↑ " switch of White paint 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
_	WhPaintRM		button " ↓ " switch of White paint 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	WhPaintBP		button "→" switch of White paint 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	WhPaintBM	Integer	button "←" switch of White paint 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
Zoc	Enable	Integer	(Zoom function) switch 0:Disable, 1:Enable	Yes No	Yes No	Yes Yes	Yes Yes	Yes Yes	Yes No
-	StatusDisp	_	Display Value of Zoom 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
-	Tele1		button ">" switch of zoom 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
ŀ	Tele2	Integer	button ">>" switch of zoom 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
•	Tele3	Integer	button ">>>" switch of zoom 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	Wide1	Integer	button "<" switch of zoom 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Wide2		button "<<" switch of zoom 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Wide3		button "<<<" switch of zoom 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Tele		button "Tele" switch of zoom 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
-	Wide		button "Wide" switch of zoom 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
-	Preset Clear		button "Preset" switch of zoom 0:Disable, 1:Enable button "Clear" switch of zoom 0:Disable, 1:Enable	No No	No No	Yes Yes	Yes Yes	Yes Yes	No No
-	Clear Preset1		button "Clear" switch of zoom 0:Disable, 1:Enable	No No	No No	Yes	Yes	Yes	No No
-	Preset2		button "B" switch of zoom 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
<u> </u>	Preset3		button "C" switch of zoom 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
Foc			(Focus function)	Yes	Yes	Yes	Yes	Yes	Yes
Ī	Enable	Integer	switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
;	StatusDisp	Integer	Display Value of Focus 0:Disable, 1:Enable	No	No	No	Yes	Yes	No
	Manual		button "MANUAL" switch of focus 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Auto		button "AUTO" switch of focus 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
_	Far1		button ">" switch of focus 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
<u> </u>	Far2		button ">>" switch of focus 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Far3		button ">>>" switch of focus 0:Disable, 1:Enable button "<" switch of focus 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Near1 Near2		button "<<" switch of focus 0:Disable, 1:Enable	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
-	Near3		button "<<<" switch of focus 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Infinity		button "∞" switch of focus 0:Disable, 1:Enable	Yes	Yes	No	No	No	No
-	PushAuto		button "PUSH AUTO" switch of focus	Yes	Yes	Yes	Yes	Yes	Yes
			0:Disable, 1:Enable						
_	sterBlack	Intogor	(MasterBlack function)	No	Yes	Yes	Yes	No	No
-	Enable Status Dian		switch 0:Disable, 1:Enable	No No	No No	No No	No No	No No	No
_	StatusDisp Up1		Display Value of MasterBlack 0:Disable, 1:Enable button ">" switch of MasterBlack 0:Disable, 1:Enable	No	Yes	Yes	Yes	No	No No
	Up2		button ">>" switch of MasterBlack 0:Disable, 1:Enable	No	Yes	Yes	Yes	No	No
-	Up3		button ">>>" switch of MasterBlack 0:Disable, 1:Enable	No	Yes	Yes	Yes	No	No
-	Down1	Integer	button "<" switch of MasterBlack 0:Disable, 1:Enable	No	Yes	Yes	Yes	No	No
_	Down2	Integer	button "<<" switch of MasterBlack 0:Disable, 1:Enable	No	Yes	Yes	Yes	No	No
_	Down3	Integer	button "<<<" switch of MasterBlack 0:Disable, 1:Enable	No	Yes	Yes	Yes	No	No
Det			(Detail function)	No	Yes	Yes	Yes	No	No
	Enable	Integer	switch 0:Disable, 1:Enable	No	No	No	No	No	No
-	StatusDisp		Display Value of Detail 0:Disable, 1:Enable	No	No	No	No	No	No
-	Up Down		button ">" switch of Detail 0:Disable, 1:Enable button "<" switch of Detail 0:Disable, 1:Enable	No No	Yes Yes	Yes Yes	Yes Yes	No No	No No
Jse		integer	(switch of user assignment)	Yes	Yes	Yes	Yes	Yes	Yes
_	Sw1	Integer	button "SW1" switch of User Switch	Yes	Yes	Yes	Yes	Yes	No
_	Sw2	Integer	0:Disable, 1:Enable button "SW2" switch of User Switch	Yes	Yes	Yes	Yes	Yes	No
			0:Disable, 1:Enable						
	Sw3	Integer	button "SW3" switch of User Switch 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
[Sw4	Integer	button "SW4" switch of User Switch 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	No
	Sw5	Integer	button "SW5" switch of User Switch	Yes	Yes	Yes	Yes	Yes	No
	Sw6	Integer	0:Disable, 1:Enable button "SW6" switch of User Switch	Yes	Yes	Yes	Yes	Yes	No
			0:Disable, 1:Enable	Von	Vec	Vec	Vec	Ves	No
1	Sw7	meger	button "SW7" switch of User Switch	Yes	Yes	Yes	Yes	Yes	No

L			0:Disable, 1:Enable						
	Sw8		button "SW8 switch of User Switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
	Sw9	-	button "SW9" switch of User Switch 0:Disable, 1:Enable	No	No	Yes	Yes	Yes	No
Ī	Sw10	-	button "SW10" switch of User Switch 0:Disable, 1:Enable	No	No	Yes	No	Yes	No
ŀ	Sw11	Integer	button "SW11" switch of User Switch 0:Disable, 1:Enable	No	No	Yes	No	No	No
F	LensRet	Integer	button "LensRet" switch of User Switch 0:Disable, 1:Enable	No	No	Yes	No	No	No
ŀ	Sub1	Integer	button "Sub1" switch of User Switch 0:Disable, 1:Enable	No	No	No	No	No	Yes
-	Sub2	Integer	button "Sub2" switch of User Switch 0:Disable, 1:Enable	No	No	No	No	No	Yes
F	Sub3	Integer	button "Sub3" switch of User Switch 0:Disable, 1:Enable	No	No	No	No	No	Yes
Str	eaming		(Streaming function)	Yes	Yes	Yes	Yes	Yes	Yes
	On	Integer	button "ON" switch of Streaming 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	Off		button "OFF" switch of Streaming 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	ptv		(Display function)	Yes	Yes	Yes	Yes	Yes	No
	On	Integer	button "ON" switch of Display 0:Disable, 1:Enable	Yes	Yes	No	Yes	Yes	No
	Off	Integer	button "OFF" switch of Display 0:Disable, 1:Enable	Yes	Yes	No	Yes	Yes	No
	aracterMix	Ĭ	(Character mix function)	No	No	Yes	No	No	No
	Sdi		button "SDI" switch of CharacterMix 0:Disable, 1:Enable	No	No	Yes	No	No	No
	Hdmi	Integer	button "HDMI" switch of CharacterMix 0:Disable, 1:Enable	No	No	Yes	No	No	No
	Video	Integer	button "Video" switch of CharacterMix 0:Disable, 1:Enable	No	No	Yes	No	No	No
Me	nu		(Menu function)	Yes	Yes	Yes	Yes	Yes	Yes
	Display	Integer	button "DYSPLAY" switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Status		button "STATUS" switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
- 1	Menu	_		Yes	Yes	Yes	Yes	Yes	Yes
		_	button "MENU" switch of Menu 0:Disable, 1:Enable	_	1	1			_
- 1	Set		button "SET" switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	Cancel		button "CANCEL" switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
-	Up		button " ↑ " switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
<u> </u>	Down		button " ↓ " switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	Left		button "←" switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	Right	Integer	button "→" switch of Menu 0:Disable, 1:Enable	Yes	Yes	Yes	Yes	Yes	Yes
	String		(String of button name)	Yes	Yes	Yes	Yes	Yes	No
Gai			(Button of gain)	Yes	Yes	Yes	Yes	Yes	No
-	L	_	String of Low gain button	Yes	Yes	Yes	Yes	Yes	No
	M		String of Middle gain button	Yes	Yes	Yes	Yes	Yes	No
	Н	String	String of High gain button	Yes	Yes	Yes	Yes	Yes	No
Use	er Sw1	String	(Button of user switch alocation) String of User switch 1	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	No No
			"Load Picture File" / "Clip Cutter Trig" / "Backup Trig" / "Clip Review" / "Zebra" / "Marker" / "Lolux" / "Bars" /						
			"Focus Assist" / "OIS" / "AE Lock" / "OK Mark" / "Spot Meter" / "Face Detect" / "White Balance" /						
			"Preset Zoom 1" / "Preset Zoom 2" / "Preset Zoom 3" / "LCD Backlight" / "Flash Band" / "One Push Focus" /						
			"One Push Iris" / "Expanded Focus" / "Live Streaming" / "Auto Focus" / "Histogram" /						
ļ			"AWB" / "Rec" / "Return Video"	1	<u> </u>	<u> </u>		<u> </u>	<u> </u>
	Sw2		String of User switch 2. Same as above.	Yes	Yes	Yes	Yes	Yes	No
- 1	Sw3		String of User switch 3. Same as above.	Yes	Yes	Yes	Yes	Yes	No
- 1	Sw4	_	String of User switch 4. Same as above.	Yes	Yes	Yes	Yes	Yes	No
	Sw5		String of User switch 5. Same as above.	Yes	Yes	Yes	Yes	Yes	No
-	Sw6	_	String of User switch 6. Same as above.	Yes	Yes	Yes	Yes	Yes	No
	Sw7	String	tring of User switch 7. Same as above.	Yes	Yes	Yes	Yes	Yes	No
	Sw8		String of User switch 8. Same as above.	No	No	Yes	Yes	Yes	No
	Sw9	String	String of User switch 9. Same as above.	No	No	Yes	Yes	Yes	No
-	Sw10		String of User switch 10. Same as above.	No	No	Yes	No	Yes	No
	Sw11	_	String of User switch 11. Same as above.	No	No	Yes	No	No	No
- 1	LensRet	String	String of User switch Lens Ret. Same as above.	No	No	Yes	No	No	No
- 1								1	LAT.
- 1			(Button of White balance)	Yes	Yes	Yes	Yes	Yes	No

I				"PRESET"/ "A" / "B" / "FAW"						
		В	String	String of B button	No	No	Yes	Yes	Yes	No
				"PRESET"/ "A" / "B" / "FAW"						

```
"Response" : {
 "Requested": "GetCamStatus",
 "Result": "Success",
 "Data" : {
  "Camera" : {
   "Status": "Standby", "Mode": "Camera", "RecMode": "Normal",
   "TC": "#########", "AspectRetio": "16:9", "WebAccess": "On"
  "Fullauto" : {
   "Status" : "Auto"
  "Iris" : {
   "Status": "Auto", "Value": "0"
  "Gain" : {
   "Status": "Alc", "Value": "0"
  "AeLevel" : {
   "Status": "AeOn", "Adjust": "On", "Value": "0"
  "Shutter" : {
   "Status" : "Eei" , "Value" : "0"
  "Whb" : {
   "Status": "Faw", "Value": "0",
   "WhPRScale": "Off", "WhPBScale": "0",
   "WhPRPosition": "100", "WhPBPosition": "Z100",
   "WhPRValue": "100", "WhPBValue": "Z100"
 },
  "Zoom" : {
   "Dynamic" : "Off" , "DynamicPos" : "0" ,
   "Position": "100", "DisplayValue": "Z100"
  "Focus" : {
   "Status": "AF", "Value": "0"
  "Streaming" : {
   "Status" : "Stop"
  "Disptv" : {
   "Status" : "Off"
  "CharacterMix" : {
   "Sdi": "Off", "Hdmi": "Off", "Video": "Off"
 "TallyLamp" : {
   "Priority": "Camera", "Sw": "Off"
  "SlotA" : {
   "Status": "Select", "Protect": "Unlock", "Remain": "120", "ClipNum": "50",
   "RemainWarning": "0"
  "SlotB" : {
   "Status": "Select", "Protect": "Unlock", "Remain": "140", "ClipNum": "25",
   "RemainWarning": "0"
  "Battery" : {
   "Info" : "Time" , "Level" : "8" , "Value" : "80"
  "Enable" : {
   "Fullauto" : {
    "Status": 1, "On": 1, "Off": 1, "Preset": 1
   },
   "Iris" : {
    "Status": 1, "StatusDisp": 1,
```

```
"Manual": 1, "Auto": 1, "Open1": 1, "Open2": 1, "Open3": 1,
    "Close1": 1 , "Close 2": 1 , "Close 3": 1 "PushAuto": 1
  },
   "Gain" : {
    "Status": 1, "StatusDisp": 1,
    "Manual": 1, "Agc": 1, "Lolux": 1, "Variable": 1, "L": 1, "M": 1, "H": 1,
    "Up1": 1, "Up2": 1, "Down1": 1, "Down2": 1,
   "AeLevel" : {
    "Status": 1, "StatusDisp": 1,
    "AeLevelUp": 1, "AeLevelDown": 1, "AdjustOn": 1, "AdjustOff": 1
   "Shutter" : {
    "Status": 1, "StatusDisp": 1,
    "Off": 1, "Manual": 1, "Step": 1, "Variable": 1, "Eei": 1,
    "Slower": 1, "Faster": 1
   "Whb" : {
    "Status": 1, "StatusDisp": 1,
    "Manual": 1, "Faw": 1, "Preset": 1, "A": 1, "B": 1, "Adjust": 1,
    "WhPaintRP": 1, "WhPaintRM": 1, "WhPaintBP": 1, "WhPaintBM": 1
  },
   "Zoom" : {
    "Status": 1, "StatusDisp": 1,
    "Tele1": 1, "Tele2": 1, "Tele3": 1, "Wide1": 1, "Wide2": 1, "Wide3": 1,
   "Tele": 1, "Wide": 1,
   "Preset": 1, "Clear": 1, "Preset1": 1, "Preset2": 1, "Preset3": 1
  }.
   "Focus" : {
    "Status": 1, "StatusDisp": 1,
    "Manual" : 1 , "Auto" : 1,
    "Far1": 1, "Far2": 1, "Far3": 1, "Near1": 1, "Near2": 1, "Near3": 1,
    "Infinity": 1, "PushAuto": 1
  },
   "User" : {
    "Sw1": 1, "Sw2": 1, "Sw3": 1, "Sw4": 1, "Sw5": 1, "SDw6": 1,
    "Sw7": 1, "Sw8": 1, "Sw9": 1, "Sw10": 1, "Sw11": 1, "LensRet": 1
   "Streaming" : {
    "On": 1, "Off": 1
  },
   "Disptv" : {
    "On": 1, "Off": 1
   "CharacterMix": {
     "Sdi": 1, "Hdmi": 1, "Video": 1
  }.
   "Menu" : {
    "Display": 1, "Status": 1,
    "Menu": 1, "Set": 1, "Cancel": 1,
    "Up": 1, "Down": 1, "Left": 1, "Right": 1
  }
 },
  "ButtonString" : {
   "Gain" : {
    "L": "0dB", "M": "6dB", "H": "12dB"
   "User" : {
    "Sw1" : "Focus Assist" , "Sw2" : "OIS" , "Sw3" : "Lolux" , "Sw4" : "AE Lock" ,
    "Sw5": "Zebra", "Sw6": "Marker", "Sw7": "Clip Review", "Sw8": "Rec"
    "Sw9": "AWB", "Sw10": "TC Preset", "Sw11": "OK Mark",
    "LensRet": "Live Streaming"
  }.
   "Whb" : {
    "Preset": "PRESET", "A": "A", "B": "B"
}
```

3.3.2. Recording

Control the recording function

Request

COL								
Key	Style	Value	HM650	HM660) HM8x0	HM200	LS300	PZ100
Request								
Command	String	SetCamCtrl	Yes	Yes	Yes	Yes	Yes	Yes
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Params								
CamCtrl	String	Camera Control	Yes	Yes	Yes	Yes	Yes	Yes
		"Rec": recording start / "Stop": recording stop						

```
Example

{
    "Request" : {
        "Command" : "SetCamCtrl " ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "CamCtrl" : "Rec"
        }
    }
}
```

K	ey	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
R	tesponse								
	Requested	String	SetCamCtrl	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetCamCtrl " ,
        "Result" : "Success"
     }
}
```

3.3.3. Set zoom position (obey preset zoom settings of camera)

Control zoom position

In operation, obay preset zoom speed settings of camera,

If you use zooming with slide bar, you should use "SetWebSliderEvent" command.

Request Key

CSt											
Κe	y		5	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	que	est									
	Со	mmand	5	String	SetZoomCtrl	Yes	Yes	Yes	Yes	Yes	Yes
	Se	ssionID	5	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
	Pa	rams									
		Position	I	Integer	Zoom position "0"~"499"	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "SetZoomCtrl " ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "Position" : 400
        }
    }
}
```

Ke	У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetZoomCtrl	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetZoomCtrl" ,
        "Result" : "Success"
    }
}
```

3.3.4. Live streaming

Control the streaming function

After changing settings with API command, you should check the result of the command before start live streaming. While menu or status screen is displayed on the camcorder, start/stop streaming command does not work.

Request

Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	SetStreamingCtrl	Yes	Yes	Yes	Yes	Yes	Yes
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Params								
Streaming	String	Streaming Control	Yes	Yes	Yes	Yes	Yes	Yes
		"On": streaming start / "Off": streaming stop						

```
Example

{
    "Request" : {
        "Command" : "SetStreamingCtrl" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Streaming" : "On"
        }
    }
}
```

Ke	ey .	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetStreamingCtrl	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example
{
    "Response" : {
        "Requested" : "SetStreamingCtrl" ,
        "Result" : "Success"
    }
}
```

3.3.5. Tally lamp control

This command controls tally lamp.

Turning on/off the tally lamp depends on camera settings. "3.7.2. Set tally lamp priority"has the details.

"SetTallyLampCtrl" should be used only when changing the tally lamp state, otherwise it causes performance degradation.

Please do not use "SetTallyLampCtrl" in the studio tally system described in '3.7. How to control studio tally system".

From Web API version 1.07, alarm indication on the camera itself has highest priority compared with all other tally control via web interface.

Request

5 00									
Ke	у	Style	Value	HM6	50 HM660	0x8MH	HM200	LS300	PZ100
Re	quest								
	Command	String	SetTallyLampCtrl	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
	Params								
	Sw	String	Tarry lamp Control	Yes	Yes	Yes	Yes	Yes	Yes
			"On"(The order turns on LED) /						
			"Off"(The order turns off LED) /						

Example { "Request" : { "Command" : "SetTallyLampCtrl", "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" , "Params" : { "Sw" : "On" } } }

0	•								
Ke	у	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetTallyLampCtrl	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetTallyLampCtrl" ,
        "Result" : "Success"
    }
}
```

Issue a button event

Request

quest		Value						
Command	String	SetWebButtonEvent	Yes	Yes	Yes	Yes	Yes	Υ
SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	١
Pa <u>rams</u>		(Button parameter is selected by Kind parameter)						
Kind	String	Kind of button event						
		"Fullauto"	Yes	Yes	Yes	Yes	Yes	1
		"Iris"	Yes	Yes	Yes	Yes	Yes	`
		"Gain"	Yes	Yes	Yes	Yes	Yes	`
		"AeLevel"	Yes	Yes	Yes	Yes	Yes	`
		"Shutter"	Yes	Yes	Yes	Yes	Yes	,
		"Whb"	Yes	Yes	Yes	Yes	Yes	1
		"Zoom"	Yes	Yes	Yes	Yes	Yes	,
		"Focus"	Yes	Yes	Yes	Yes	Yes	,
		"User"	Yes	Yes	Yes	Yes	Yes	,
		"Disptv"	Yes	Yes	Yes	Yes	Yes	,
		"Menu"	Yes	Yes	Yes	Yes	Yes	,
		"Rec"	Yes	Yes	Yes	Yes	Yes	ŀ
		"MasterBlack"	No	Yes	Yes	Yes	No	1
				+			-	+
		"Detail"	No	Yes	Yes	Yes	No	1
1		"Exposure"	No	No	No	No	No)
Destina	C+-i	"SpeedWithZoom"	No	No	No	No	No)
Button	String	Fullauto event						1
		"On" / "Off"	Yes	Yes	Yes	Yes	Yes	1
		"Preset"	No	No	No	No	Yes	١
		Exposure event						
		"Auto"/ "Manual" / "IrisPriority" / "ShutterPriority"	No	No	No	No	No	1
		Iris event						
		"Manual" / "Auto"	Yes	Yes	Yes	Yes	Yes	١
		"Open1"	Yes	Yes	Yes	Yes	Yes	1
		"Open2"	Yes	Yes	Yes	Yes	Yes	1
		"Open3"	Yes	Yes	Yes	Yes	Yes	١
		"Close1"	Yes	Yes	Yes	Yes	Yes	١
		"Close2"	Yes	Yes	Yes	Yes	Yes	1
		"Close3"	Yes	Yes	Yes	Yes	Yes	ı
		"PushAuto"	Yes	Yes	Yes	Yes	Yes	'n
		Gain event						Ť
		"Alc"	Yes	Yes	No	No	No	ı
		"Lolux"	Yes	Yes	Yes	Yes	Yes	١
		"L" / "M" / "H"	Yes	Yes	Yes	Yes	Yes	1
		"Variable"	No	No	No	No	Yes	Į,
		"Up1"	No	Yes	Yes	Yes	Yes	ļ,
		"Up2"	No	No	No	No	Yes	N.
		"Down1"		Yes	Yes			+
		"Down2"	No	+	No	Yes No	Yes	1
			No	No			Yes	١
		"Manual" / "Auto"	No	No	No	No	No	١
		AeLevel event		1	ļ.,			4.
		"AeLevelUp" / "AeLevelDown"	Yes	Yes	Yes	Yes	Yes	١
		"AdjustOn" / "AdjustOff"	No	No	No	Yes	Yes	١
		"Up" / "Down"	No	No	No	No	No)
		Shutter event						
		"Off"	Yes	Yes	Yes	No	No	1
		"Step"	No	No	Yes	Yes	Yes	١
1		"Variable"	No	No	Yes	Yes	Yes	1
1		"Manual"	Yes	Yes	No	No	No	1
		"Eei"	Yes	Yes	Yes	Yes	Yes	1
		"Slower"	Yes	Yes	Yes	Yes	Yes	١
1		"Faster"	Yes	Yes	Yes	Yes	Yes	1
1		Whb event						T
1		"Faw"	Yes	Yes	No	No	No	1
		"Preset" / "A" / "B"	Yes	Yes	Yes	Yes	Yes	1
		"Adjust" (Awb trigger when PZ100)	Yes	Yes	Yes	Yes	Yes	,
1		"WhPaintRP"/"WhPaintRM"	Yes	Yes	Yes	Yes	Yes	l,
1		"WhPaintBP"/"WhPaintBM"	Yes	Yes	Yes	Yes	Yes	N
		"Awb"	No	No	No	No	No	r Y

"5600K"	No	No	No	No	No	Yes
"Manual"	No	No	No	No	No	Yes
Zoom event	110	140	110	110	110	100
"Tele1" / "Tele2" / "Tele3"	Yes	Yes	Yes	Yes	Yes	Yes
"Wide1" / "Wide2" / "Wide3"	Yes	Yes	Yes	Yes	Yes	Yes
"Stop"	No	No	No	No	No	Yes
**Tele" or "Wide" events need "Stop" in KY-PZ100.						
Focus event						
"Manual" / "Auto"	Yes	Yes	Yes	Yes	Yes	Yes
"Far1" / "Far2" / "Far3" / "Near1" / "Near2"/ "Near3"	Yes	Yes	Yes	Yes	Yes	Yes
"Infinity"	Yes	Yes	No	No	No	No
"PushAuto"	Yes	Yes	Yes	Yes	Yes	Yes
"Stop"	No	No	No	No	No	Yes
* "Far" or "Near" events need "Stop" in KY-PZ100.						
MasterBlack event						
"Up1" / "Up2" / "Up3" / "Down1" / "Down2"/ "Down3"	No	Yes	Yes	Yes	No	No
User event						
"Sw1" / "Sw2" / "Sw3" / "Sw4" / "Sw5" / "Sw6" / "Sw7"	Yes	Yes	Yes	Yes	Yes	No
"Sw8" / "Sw9"	No	No	Yes	Yes	Yes	No
"Sw10"	No	No	Yes	No	Yes	No
"Sw11" / "LensRet"	No	No	Yes	No	No	No
"Sub1" / "Sub2" / "Sub3"	No	No	No	No	No	Yes
Disptv event						
"On":(Display on TV) / "Off":(Display on TV)	Yes	Yes	No	Yes	Yes	No
"Sdi":(Character Mix)	No	No	Yes	No	No	No
"Hdmi":(Character Mix)	No	No	Yes	No	No	No
"Video":(Character Mix)	No	No	Yes	No	No	No
Menu event						
"Display":(Menu) / "Status":(Menu) / "Menu":(Menu)	Yes	Yes	Yes	Yes	Yes	Yes
"Cancel":(Menu) / "Set":(Menu) / "Up":(Menu) /	Yes	Yes	Yes	Yes	Yes	Yes
"Down":(Menu) / "Left":(Menu) / "Right":(Menu)	Yes	Yes	Yes	Yes	Yes	Yes
"Advanced":(Menu)	No	No	No	No	No	Yes
"Service":(Menu)	No	No	No	No	No	Yes
"Factory":(Menu)	No	No	No	No	No	Yes
Rec event						
"Start":Recording start / "Stop":Recording stop	Yes	Yes	Yes	Yes	Yes	Yes
Detail event "Up" / "Down"	No	Yes	Yes	Yes	No	Yes
SpeedWithZoom event "Off / "On"	No	No	No	No	No	Yes

```
Example

{
    "Request" : {
        "Command" : "SetWebButtonEvent " ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Kind" : "Fullauto" ,
        "Button" : "On"
        }
    }
}
```

Response Kev

K	Э У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	esponse								
	Requested	String	SetWebButtonEvent	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetWebButtonEvent " ,
        "Result" : "Success"
    }
}
```

3.3.7. Set Web Slider Event

Issue a slider event

You should use 'SetWebSliderEvent' command instead of 'SetZoomCtrl' for zooming with slide bar. You get maxmum speed of zoom.

Request

esi									
Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Requ	est								ľ
Co	mmand	String	SetWebSliderEvent	Yes	Yes	Yes	Yes	Yes	Yes
Se	essionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Pa	ırams								
	Kind	String	Kind of Slider event						ľ
			" ZoomBar "	Yes	Yes	Yes	Yes	Yes	Yes
	Position	Integer	Slider event						ľ
			ZoomBar 0~499:Zoom position	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "SetWebSliderEvent " ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Kind" : "ZoomBar" ,
         "Position" : 73
        }
    }
}
```

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Response									
	Requested	String	SetWebSliderEvent	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetWebSliderEvent " ,
        "Result" : "Success"
    }
```

Issue a two-dimensional slider event

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Reque	est								
Co	mmand	String	SetWebXYFieldEvent	Yes	Yes	Yes	Yes	Yes	Yes
Se	ssionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
Pa	rams								
	Kind	String	Kind of XYField event	Yes	Yes	Yes	Yes	Yes	Yes
			"WhPaintRB ":White paint R and B						
	XPosition	Integer	XYField event	Yes	Yes	Yes	Yes	Yes	Yes
			WhPaintRB "0"∼"64" (White paint B position)						
	YPosition	Integer	XYField event	Yes	Yes	Yes	Yes	Yes	Yes
			WhPaintRB "0"∼"64" (White paint R position)						

Example

```
"Request" : {
"Command" : "SetWebXYFieldEvent" ,
 "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
 "Params" : {
  "Kind" : "WhPaintRB" ,
  "XPosition" : 32,
  "YPosition" : 32
```

Respopnse

Ke	У	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetWebXYFieldEvent	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

Example

```
"Response" : {
"Requested": "SetWebXYFieldEvent"\,,\\
 "Result" : "Success"
```

Request location information of camera GPS function.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request									
	Command	String	GetGPSInfo	Yes	Yes	Yes	No	No	No
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	No	No	No

```
Example

{
    "Request" : {
        "Command" : "GetGPSInfo" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
      }
}
```

Response

(ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Response								
Requested	String	GetGPSInfo	Yes	Yes	Yes	No	No	No
Result	String	(Result of command processing.)	Yes	Yes	Yes	No	No	No
Data								
AntennaLevel	String	"None" / "Lost" / "Searching" /	Yes	Yes	Yes	No	No	No
		"Level1" / "Level2" / "Level3"						
Location	String	"+/-" <latitude>"+/-"<longitude>"+/-"<altitude>"/"</altitude></longitude></latitude>	Yes	Yes	Yes	No	No	No
		Latitude +:North, -:South,						
		00.0000(min) - 90.00000(max)						
		Longitude +:East, -:West,						
		000.000000(min) - 179.999999(max)						
		Altitude +, -,						
		0.00000(min) - 9999999(max)						

^{*}Location data is valid only if AnttennaLevel is "Level1", "Level2", or "Level3".

Example

```
"Response": {
    "Requested": "GetGPSInfo",
    "Result": "Success",
    "Data": {
        "AntennaLevel": "Level3",
        "Location": "+35.360452+138.727820+3775.630/"
        },
    }
}
```

Seesaw switch operation command is changing parameter by a seesaw-swith.

Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	SeesawSwitchOperation	No	Yes	Yes	Yes	No	No
SessionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	No	No
Params								
Kind	String	Kind of Seesaw event "ZoomSeesaw" / "IrisSeesaw" / "MasterBlackSeesaw" / "FocusSeesaw"	No	Yes	Yes	Yes	No	No
Direction	String	Zoom operation "Stop" / "Wide" / "Tele" Iris operation "Open" / "Close" / "Stop" MasterBlack operation "Up" / "Down" / "Stop" Focus operation "Far" / "Near" / "Stop"	No	Yes	Yes	Yes	No	No
Speed	Integer	0 - 8	No	Yes	Yes	Yes	No	No

^{*&}quot;Speed = 0" has the same meaning as "Direction = Stop".

Example

```
{
    "Request" : {
        "Command" : "SeesawSwitchOperation" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Kind" : "MasterBlack" ,
        "Direction" : "Up" ,
        "Speed" : 5
      }
    }
}
```

Ke	ey .	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SeesawSwitchOperation	No	Yes	Yes	Yes	No	No
	Result	String	(Result of command processing.)	No	Yes	Yes	Yes	No	No

```
Example

{
    "Response" : {
        "Requested" : "SeesawSwitchOperation" ,
        "Result" : "Success"
     }
}
```

3.4.1. Set Pan Tilt Control

Pan / Tilt control command with direct position parameters.

Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	SetPTCtrl	No	No	No	No	No	Yes
SessionID	String	(Session ID in cookie.)	No	No	No	No	No	Yes
Params								
PanDirection	String	"Stop" / "Left" / "Right" / "Home" / "Position"	No	No	No	No	No	Yes
PanPosition	Integer	0(Back left limmit)	No	No	No	No	No	Yes
		- 17540(front)						
		- 35080(Back right limmit)						
		PanPosition is valid when "PanDirection" is "Position".						
PanSpeed	Integer	0 - 30	No	No	No	No	No	Yes
TiltDirection	String	"Stop" / "Up" / "Down" / "Home" / "Position"	No	No	No	No	No	Yes
TiltPosition	Integer	0(Just above)	No	No	No	No	No	Yes
		- 9040(just beside)						
		- 12080(diagonally downward)						
		"TiltPosition" is valid when "TiltDirection" is "Position".						
TiltSpeed	Integer	0 - 30	No	No	No	No	No	Yes

^{*&}quot;Speed = 0" has the same meaning as "Direction = Stop".

Example

```
{
    "Request" : {
        "Command" : "SetPTCtrl" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "PanDirection" : "Left" ,
            "PanPosition" : 32768
            "PanSpeed" : 10
            "TiltDirection" : "Up" ,
            "TiltPositon : 32768
            "TiltSpeed" : 10
        }
    }
}
```

Ke	∍y	Style	value	HM650	HIVI660	HM8x0	HM200	LS300	PZ100
Re	esponse								l
	Requested	String	SetPTCtrl	No	No	No	No	No	Yes
	Result	String	(Result of command processing.)	No	No	No	No	No	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetPTCtrl" ,
        "Result" : "Success"
     }
}
```

Joystick operation command with direction and speed parameters.

Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	JoyStickOperation	No	No	No	No	No	Yes
SessionID	String	(Session ID in cookie.)	No	No	No	No	No	Yes
Params								
PanDirection	String	"Stop" / "Left" / "Right"	No	No	No	No	No	Yes
PanSpeed	Integer	0 - 30	No	No	No	No	No	Yes
TiltDirection	String	"Stop" / "Up" / "Down"	No	No	No	No	No	Yes
TiltSpeed	Integer	0 - 30	No	No	No	No	No	Yes

^{*&}quot;Speed = 0" has the same meaning as "Direction = Stop".

Example

```
{
  "Request" : {
  "Command" : "JoyStickOperation" ,
  "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
  "Params" : {
   "PanDirection" : "Left" ,
   "PanSpeed" : 10
   "TiltDirection" : "Up" ,
   "TiltSpeed" : 10
  }
  }
}
```

Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	JoyStickOperation	No	No	No	No	No	Yes
	Result	String	(Result of command processing.)	No	No	No	No	No	Yes

```
Example

{
    "Response" : {
        "Requested" : "JoyStickOperation" ,
        "Result" : "Success"
      }
}
```

3.4.3. Zoom switch operation

Zoom switch operation command is changing zoom by a seesaw-swith.

Key		Style	Value	HM6	50 HM660	0x8MH	HM200	LS300	PZ100
Requ	est								
Co	ommand	String	ZoomSwitchOperation	No	Yes	Yes	Yes	No	Yes
Se	essionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	No	Yes
Pa	arams								
	Direction	String	"Stop" / "Wide" / "Tele"	No	Yes	Yes	Yes	No	Yes
	Speed	Integer	0 - 8	No	Yes	Yes	Yes	No	Yes

^{*&}quot;Speed = 0" has the same meaning as "Direction = Stop".

Example

```
{
  "Request" : {
  "Command" : "ZoomSwitchOperation" ,
  "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
  "Params" : {
    "Direction" : "Wide" ,
    "Speed" : 5
  }
}
```

Response

Ke	У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	ZoomSwitchOperation	No	Yes	Yes	Yes	No	Yes
	Result	String	(Result of command processing.)	No	Yes	Yes	Yes	No	Yes

Example { "Response" : { "Requested" : "ZoomSwitchOperation" , "Result" : "Success" } }

Control pan / tilt / zoom preset position.

Ke	y .	Style	Value	HM65) HM660	HM8x0	HM200	LS300	PZ100
Re	quest								
	Command	String	SetPTZPreset	No	No	No	No	No	Yes
	SessionID	String	(Session ID in cookie.)	No	No	No	No	No	Yes
	Params								
	No	Integer	1 - 100(Number of preset position)	No	No	No	No	No	Yes
	Operation	String	"Move"(Move to preset position)	No	No	No	No	No	Yes
			"Set" (Current position is stored)						
			"Delete"(Delete the preset position)						

```
Example

{
    "Request" : {
        "Command" : "SetPTZPreset" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
              "No" : 90 ,
              "Operation" : "Move"
        }
    }
}
```

Ke	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetPTZPreset	No	No	No	No	No	Yes
	Result	String	(Result of command processing.)	No	No	No	No	No	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetPTZPreset" ,
        "Result" : "Success"
     }
}
```

3.4.5. Get camera status (for remote controller)

Request minimum status information of camera function for RM-LP100 and other remote controllers. It is recommended to use this command every 500 msec or above. Unnecessary use of this command make performance degradation.

Request

es K	ev	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	equest								
	Command	String	GetCamStatusMinimum	No	No	No	No	No	Yes
	SessionID	String	(Session ID in cookie.)	No	No	No	No	No	Yes

```
Example

{
    "Request" : {
        "Command" : "GetCamStatusMinimum" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
     }
}
```

		Style	Value	HM650	HM660	HM8x0	HM200	LS300	F
ons									Ļ
_	ested	String	GetCamStatusMinimum	No	No	No	No	No	١
esul	t	String	(Result of command processing.)	No	No	No	No	No	Υ
ata									L
Ca	amera	0.1	(Camera)						L
	Status	String	Status "NoCard"(no card inserted) / "Stop"(recording stop) / "Standby"(record standby) / "Rec"(recording)/ "RecPause"(recording pause)	No	No	No	No	No	Υ
	VideoOutputStatus	String	"On" / "Off"	No	No	No	No	No	Υ
	MenuStatus	String	"On" / "Off"	No	No	No	No	No	Υ
Ex	posure								t
	Status	String	"Auto" / "Manual" / "IrisPriority" / "ShutterPriority"	No	No	No	No	No	Υ
Iris									T
	Status	String	"Auto" / "Manual"	No	No	No	No	No	Υ
	Value	String	Character string for iris value	No	No	No	No	No	Υ
Sh	nutter								Ť
	Status	String	"Auto" / "Manual"	No	No	No	No	No	Υ
	Value	String	Character string for Shutter value	No	No	No	No	No	Υ
Ga			Onalia dia Chining for Chiance Falado	-		1			Ť
	Status	String	"Auto" / "Manual"	No	No	No	No	No	Υ
	Value	String	Character string for gain value	No	No	No	No	No	Υ
Ae	Level	J	onaractor ciring for gain value		1	1			Ť
,	Status	String	"AeOff" / "AeOn"	No	No	No	No	No	Υ
	Value	String	Character string for AE level value	No	No	No	No	No	Y
W		- · J	Character string for AL level value	110	140	140	140	140	ť
**	Status	String	"Faw" / OnePush" / "3200K" / "5600K" / "Manual"	No	No	No	No	No	Υ
	Value	String	Character string for White Balance value	No	No	No	No	No	Y
	WhPRScale	Integer	Slide bar total length for White paint Red(0-255)	No	No	No	No	No	Y
	WhPBScale	Integer	Slide bar total length for White paint Red(0-255)	No	No	No	No	No	Ϋ́
	WhPRPosition	Integer	Slide bar current position for White paint Red(0-255)	No	No	No	No	No	Y
	WhPBPosition	Integer	Slide bar current position for White paint Red(0-255)	No	No	No	No	No	Y
	WhPRValue	String	Character string for White paint Red value	No	No	No	No	No	Y
	WhPBValue	String	Character string for White paint New Value	No	No	No	No	No	Y
Fo	ocus		Character offing for William Paint Dide Value	1.10		,,,,		. 10	ť
1 0	Status	String	"Auto" / "Manual"	No	No	No	No	No	Υ
	Value	String	Character string for Focus value	No	No	No	No	No	Υ
70	oom	9	Character string for 1 ocus value	1.10		110		. 10	ť
	Position	Integer	Zoom position (0-499)	No	No	No	No	No	Υ
De	etail			110				1.10	ť
200	Value	String	Character string for detail value	No	No	No	No	No	Υ
Sti	reaming	219	Character string for detail value	140	140	140	140	. 40	ť
ان	Status	String	Status	No	No	No	No	No	Υ
	Citatus	-	"Stop"(Streaming has stopped or cannot be started.) / "Stopping"(About to stop.) / "Start"(Streaming has started.) / "Starting"(About to start.) /					. 10	
			"Waiting"(Waiting for connection. (for RTSP/RTP)) / "Error"(Error occurred.)						

	amp								
Pri	ority	String	Priority "Camera" / "Web"	No	No	No	No	No	Υe
Lig	hting	String	Lighting "On" / "Off"	No	No	No	No	No	Ye
Stı	udioTally	String	Status "Off" / "Program" / "Preview"	No	No	No	No	No	Y
abl	е		(Availability of function button switches)						
Ex	posure		(Exposure function)						
	Auto	Integer	button "Atuo" switch of exposure 0:Disable, 1:Enable	No	No	No	No	No	Y
	Manual	Integer	The state of the s	No	No	No	No	No	Υ
	ShutterPriority	Integer	button ShutterPriority" switch of exposure	No	No	No	No	No	Υ
			0:Disable, 1:Enable						
	IrisPriority	Integer	button "IrisPriority" switch of exposure	No	No	No	No	No	Υ
			0:Disable, 1:Enable						
Iris	3		(Iris function)						
	Open1	Integer	button ">" switch of iris 0:Disable, 1:Enable	No	No	No	No	No	Y
	Close1	Integer	button "<" switch of iris 0:Disable, 1:Enable	No	No	No	No	No	Υ
Ga	ain		(Gain function)						
	Auto	Integer	Display Value of gain 0:Disable, 1:Enable	No	No	No	No	No	Y
	Manual	Integer	patter in the te entre of game of bloadie, interior	No	No	No	No	No	Υ
	Up1	Integer	button "Up1" switch of gain 0:Disable, 1:Enable	No	No	No	No	No	Y
	Down1	Integer		No	No	No	No	No	Υ
Ae	Level		(AE Level function)						
	Up	Integer	2 ditto: 2 ditto: 0 / (2 ditto: 0 ditto	No	No	No	No	No	Υ
	Down	Integer	button "▼" switch of AElevel 0:Disable, 1:Enable	No	No	No	No	No	Υ
Sh	utter		(Shutter function)						
	Slower	Integer	button "▲" switch of shatter 0:Disable, 1:Enable	No	No	No	No	No	Υ
	Faster	Integer	button "▼" switch of shatter 0:Disable, 1:Enable	No	No	No	No	No	Υ
WI	hb		(White balance function)						
	Faw	Integer	button "FAW" switch of White balance	No	No	No	No	No	Υ
			0:Disable, 1:Enable						
	Manual	Integer	button "MANUAL" switch of White balance	No	No	No	No	No	Υ
			0:Disable, 1:Enable						
	OnePush	Integer	button "AWB" switch of White balance	No	No	No	No	No	Υ
			0:Disable, 1:Enable						
	K3200	Integer	button "3200K" switch of White balance	No	No	No	No	No	Υ
			0:Disable, 1:Enable						
	K5600	Integer	button "5600K" switch of White balance	No	No	No	No	No	Y
			0:Disable, 1:Enable			<u> </u>	<u> </u>		
	OnePushTrigge	Integer	button "AWB trigger" switch of White balance	No	No	No	No	No	Y
			0:Disable, 1:Enable			1	1	1	_
Fo	cus		(Focus function)			1	1	1	_
	Manual		button "MANUAL" switch of focus 0:Disable, 1:Enable	No	No	No	No	No	Υ
_	Auto	Integer	button "AUTO" switch of focus 0:Disable, 1:Enable	No	No	No	No	No	Υ
De	etail		(Detail function)						
	Up		button "ON" switch of Streaming 0:Disable, 1:Enable	No	No	No	No	No	Y
	Down	Integer	button "OFF" switch of Streaming 0:Disable, 1:Enable	No	No	No	No	No	Y
Pre	eset		(Availability of preset number)			1	1	1	1
	1	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	No	No	No	No	No	Y
	2	Integer		No	No	No	No	No	Υ
	• • • • • •	• • •				<u> </u>	<u> </u>		L
	#		PTZ preset number is operatable. 0:Disable, 1:Enable	No	No	No	No	No	Y
	100	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	No	No	No	No	No	Y

```
"Response" : {
 "Requested": "GetCamStatusMinimum",
 "Result": "Success",
 "Data" : {
  "Camera" : {
    "PowerStatus": "On", "MenuStatus": "On"
 "Exposure : {
    "Status" : "Auto"
 "Iris" : {
   "Status": "Auto", "Value": "0"
  "Shutter" : {
   "Status": "Auto", "Value": "0"
  "Gain" : {
   "Status": "Auto", "Value": "0"
  "AeLevel" : {
  "Status": "AeOn", "Value": "0"
  },
  "Whb" : {
   "Status": "Faw", "Value": "0",
   "WhPRScale": 0, "WhPBScale": 0,
   "WhPRPosition": 64, "WhPBPosition": "64,
   "WhPRValue": "64", "WhPBValue": "64"
  "Focus" : {
   "Status": "Auto", "Value": "0"
  "Zoom" : {
   "Position": 100
  .
"Detail" : {
   "Value" : "100"
  "Streaming" : {
   "Status" : "Stop"
  "TallyLamp" : {
   "Priority": "Camera", "Lighting": "Off"
  "Enable" : {
   "Exposure" : {
    "Auto": 1, "Manual": 1, "ShutterPriority": 1, "IrisPriority": 1
   "Iris" : {
    "Open1": 1,"Close1": 1
   "Gain" : {
   "Auto": 1, "Manual": 1, "Up1": 1, "Down1": 1
   "AeLevel" : {
    "Up": 1,"Down": 1
   "Shutter" : {
    "Slower": 1, "Faster": 1
  "Whb" : {
    "Faw": 1, "Manual": 1, "OnePush": 1, "K3200": 1, "K5600": 1, "OnePushTrigger": 1
   "Focus" : {
    "Auto": 1, "Manual": 1
   "Detail" : {
    "Up": 1,"Down": 1
  "Preset" : {
```

```
"1":1, "2":1, "3":1, "4":1, "5":1, "6":1, "7":1, "8":1, "9":1, "10":1,

"11":1, "12":1, "13":1, "14":1, "15":1, "16":1, "17":1, "18":1, "19":1, "20":1,

"21":1, "22":1, "23":1, "24":1, "25":1, "26":1, "27":1, "28":1, "29":1, "30":1,

"31":1, "32":1, "33":1, "34":1, "35":1, "36":1, "37":1, "38":1, "39":1, "40":1,

"41":1, "42":1, "43":1, "44":1, "45":1, "46":1, "47":1, "48":1, "49":1, "50":1,

"51":1, "52":1, "53":1, "54":1, "55":1, "56":1, "57":1, "58":1, "59":1, "60":1,

"61":1, "62":1, "63":1, "64":1, "65":1, "66":1, "67":1, "68":1, "69":1, "70":1,

"71":1, "72":1, "73":1, "74":1, "75":1, "76":1, "78":1, "88":1, "89":1, "90":1,

"81":1, "82":1, "83":1, "84":1, "85":1, "86":1, "87":1, "88":1, "99":1, "100":1,

},

}

}

}
```

3.5. How to acquire JPEG data

These commands enables to start JPEG encoding and aquire JPEG image data.

'3.5.1 JpegEncode' command with parameter 'Start' can be used to start encoding.

JPEG data is acquired followed by a header in a response for 'get_jpg_cgi' described in '3.5.2 Acquire JPEG data'.

3.5.1. JPEG encode control

Start / stops the encoding function of the camera.

It is necessary to start encoding to acquire JPEG data.

When other users have already used it, it returns disable error. Even in this case, you can acquire JPEG data.

Please be carefully to stop JPEG encoding, because other users may acquire JPEG data.

There is a possibility stop encoding command returns error if another client has already stopped encoding.

In the following cases, you cannot send the command to the camera.

The camera is in Live Streaming mode.

The camera is in IFB Streaming mode.

Key	/	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Red	quest								
	Command	String	JpegEncode	No	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	Yes	Yes
	Params								
	Operate	String	"Start" / "Stop"	No	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Request" : {
        "Command" : "JpegEncode" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "Operate" : "Start"
        }
    }
}
```

K	ә у	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	esponse								
	Requested	String	JpegEncode	No	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	No	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "JpegEncode" ,
        "Result" : "Success"
    }
}
```

Setting image resolution of acquring JPEG data.

Key		Style	Value	HM	1650 H	-IM660	HM8x0	HM200	LS300	PZ100
Req	uest									
C	Command	String	SetJpegEncodeSize	No	١	No	No	No	No	Yes
S	SessionID	String	(Session ID in cookie.)	No	١	No	No	No	No	Yes
Р	arams									
	Size	String	"640x360" / "320x181"	No	١	No	No	No	No	Yes

Example

```
{
    "Request" : {
        "Command" : "SetJpegEncodeSize" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Size" : "320x180"
        }
    }
}
```

Response

K	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	esponse								
	Requested	String	SetJpegEncodeSize	No	No	No	No	No	Yes
	Result	String	(Result of command processing.)	No	No	No	No	No	Yes

Example { "Response" : { "Requested" : "SetJpegEncodeSize" , "Result" : "Success" }

3.5.3. Acquire JPEG data

You can acquire JPEG image followed by a header when accessing to the URL below. Content type of the response is image/jpeg.

Access format	HM650	HM660	HM8x0	HM200	LS300	PZ100
http:// <ip address="">/cgi-bin/get_jpg.cgi?SessionID=<session cookie.="" id="" in=""></session></ip>	No	Yes	Yes	Yes	Yes	Yes
Request	HM650	HM660	HM8x0	HM200	LS300	PZ100
GET /cgi-bin/get_jpg.cgi?SessionID= <session cookie.="" id="" in=""> HTTP/1.1\r\n</session>	No	Yes	Yes	Yes	Yes	Yes
Response	HM650	HM660	HM8x0	HM200	LS300	PZ100
HTTP 1.1 200 OK\r\n	No	Yes	Yes	Yes	Yes	Yes
Content-type: image/jpeg\r\n						
Pragma: no-cache\r\n						
Cache-Control: no-cache\r\n						
Expires: Thu, 01 Jan 1970 00:00:00 GMT\r\n						
Content-Length: 32906\r\n						
Date: Wef, 07 Jan 2015 23:28:58 GMT\r\n						
Server: Camera\r\n						
\r\n						
Data of Jpeq file follows after this.						

3.6. How to use Interruptible Feedback Function

These commands enables to use interruptible feedback(IFB) function. IFB is used for returning audio to the camera from the controller.

3.6.1. Get interruptible feedback settings

Get IFB function parameters.

Ke	у	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	quest								
	Command	String	GetIFBSettings	No	Yes	Yes	No	No	No
	SessionID	String	(Session ID in cookie.)	No	Yes	Yes	No	No	No

```
Example

{
    "Request" : {
        "Command" : "GetIFBSettings" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        }
}
```

Key	Key		Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Resp	onse								
R	Requested String		GetIFBSettings	No	Yes	Yes	No	No	No
R	Result Strir		(Result of command processing.)	No	Yes	Yes	No	No	No
D	ata								
	Function	String	Switch to enable IFB function. "Enable" / "Disable"	No	Yes	Yes	No	No	No
	Address	String	Address of IFB server. "xxx.xxx.xxx.xxx"	No	Yes	Yes	No	No	No
	Port	Integer	Port of IFB server. 1 - 65535	No	Yes	Yes	No	No	No
	Mountpoint	String	Mountpoint on IFB server. Max 62 characters.	No	Yes	Yes	No	No	No

```
Example

{
    "Response" : {
        "Requested" : "GetIFBSettings" ,
        "Result" : "Success" ,
        "Data" : {
            "Function" : "Enable",
            "Address" : "192.168.0.11" ,
            "Port" : 5000 ,
            "Mountpoint" : "DB90TX"
        }
    }
}
```

3.6.2. Set interruptible feedback settings

Set IFB function parameters. It is necessary to use return audio at camera.

This command enables / disables the IFB function of the camera.

Κe	ey	Style Value		HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	equest								
	Command		SetIFBSettings	No	Yes	Yes	No	No	No
	SessionID		(Session ID in cookie.)	No	Yes	Yes	No	No	No
	Params								
	Function	String	Switch to enable IFB function. "Enable" / "Disable"	No	Yes	Yes	No	No	No
	Address	String	Address of IFB server. "xxx.xxx.xxx.xxx"	No	Yes	Yes	No	No	No
	Port	Integer	Port of IFB server. 1 - 65535	No	Yes	Yes	No	No	No
	Mountpoint	String	Mountpoint on IFB server. Max 62 characters.	No	Yes	Yes	No	No	No

Example

```
{
    "Request" : {
        "Command" : "SetIFBSettings ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "Function" : "Enable",
        "Address" : "192.168.0.11" ,
        "Port" : 5000 ,
        "Mountpoint" : "DB90TX"
        }
    }
}
```

K	ey	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
R	esponse								
	Requested	String	SetIFBSettings	No	Yes	Yes	No	No	No
	Result	String	(Result of command processing.)	No	Yes	Yes	No	No	No

```
Example

{
    "Response" : {
        "Requested" : "SetIFBSettings" ,
        "Result" : "Success"
      }
    }
```

3.6.3. Set interruptible feedback streaming control

This command is used to start/stop IFB streaming

Request

Key	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Request								
Command	String	SetIFBCtrl	No	Yes	Yes	No	No	No
SessionID	String	(Session ID in cookie.)	No	Yes	Yes	No	No	No
Params								
Streaming	String	Streaming Control	No	Yes	Yes	No	No	No
		"Start": start streaming / "Stop": stop streaming						

```
Example

{
    "Request" : {
        "Command" : "SetIFBCtrl" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "Streaming" : "Start"
        }
    }
}
```

Ke	ey	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	esponse								
	Requested	String	SetIFBCtrl	No	Yes	Yes	No	No	No
	Result	String	(Result of command processing.)	No	Yes	Yes	No	No	No

```
Example

{
    "Response" : {
        "Requested" : "SetIFBCtrl" ,
        "Result" : "Success"
     }
}
```

3.7. How to control Studio Tally System

"SetStudioTally" command indicates tally condition to the camera and it displays "PGM" or "PVW" on the LCD

Menu settings on the camera which affects tally lamp control are as follows.

On the studio tally system described in this chapter, "SetTally LampCtrl" command should not be used.

"SetStudioTally" and "SetTallyLampPriority" commands can control studio tally system.

From Web API version 1.07, alarm indication on the camera itself has highest priority compared with all other tally control via web interface.

Menu settings on HM660/HM200/PZ100

```
System...
Tally Lamp
Off, Rec, Live Streaming, Rec/Live Streaming, External*
```

Menu settings on HM8x0

```
System...
Tally System
Studio*,Internal
```

```
If the Tally System setting is "Studio".
```

```
System...
Front Tally
Off, On*
Back Tally
Off, On*
```

3.7.1. Studio tally control

This command controls studio tally indication.

Turning on/off the tally lamp depends on camera settings.

Refer to "3.7.4. Relation of commands on Studio tally system" about Tally lamp control.

"'SetStudioTally" should be used only when changing the tally state, otherwise it causes performance degradation.

Ke	y	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	Request								
	Command	String	SetStudioTally	No	Yes	Yes	Yes	No	Yes
	SessionID	String	(Session ID in cookie.)	No	Yes	Yes	Yes	No	Yes
	Params								
	Indication	String	"Off"(not Indicate status on LCD) / "Program"(Indicate PGM on LCD) / "Preview"(Indicate PVW on LCD)	No	Yes	Yes	Yes	No	Yes

Example { "Request" : { "Command" : "SetStudioTally" , "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" , "Params" : { "Indication" : "Program" } } }

Ke	У	Style	Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetStudioTally	No	Yes	Yes	Yes	No	Yes
	Result	String	(Result of command processing.)	No	Yes	Yes	Yes	No	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetStudioTally" ,
        "Result" : "Success"
    }
}
```

Tally lamp is controlled by Web API when selected.

3.7.2. Set tally lamp priority

Set indication priority setting of the tally lamp.

You should set tally lamp priority to "Web" before using the tally lamp via API.

Menu setting on the camera is fixed to "External/Studio" when setting changed priority to "Web" and cannot change it.

It becomes changeable when priority setting is "Camera".

This command should be used only when the tally lamp status need to be changed, otherwise it causes performance degradation.

'SetTallyLampPriority' changes camera setting as follows.

Camera stores prior state before switching to the "Web" priority and it resumes former state when you return the priority to "Camera".

HM660/HM200/PZ100

```
This setting becomes "External" when the priority is set to "Web".

System...

Tally Lamp

Off, Rec, Live Streaming, Rec/Live Streaming, External
```

HM8x0

```
This setting becomes "Studio" when the priority is set to "Web".

System...
Tally System
Studio,Internal
```

This setting becomes "On" when the priority is set to "Web".

```
System...
Front Tally
Off, Rec, Live Streaming, Rec/Live Streaming *
Off, On
Back Tally
Off, Rec, Live Streaming, Rec/Live Streaming *
Off, Rec, Live Streaming, Rec/Live Streaming *
**
```

* If the Tally System setting is "Internal".

** If the Tally System setting is "Studio".

Request

Ke	Key		Value	HM650	HM660	HM8x0	HM200	LS300	PZ100
Re	Request								
	Command	String	SetTallyLampPriority	Yes	Yes	Yes	Yes	Yes	Yes
	SessionID	String	(Session ID in cookie.)	Yes	Yes	Yes	Yes	Yes	Yes
	Params								
	Priority	Integer	"Camera"(Camera is given priority of control.) /	Yes	Yes	Yes	Yes	Yes	Yes
			"Web"(Web is given priority of control.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

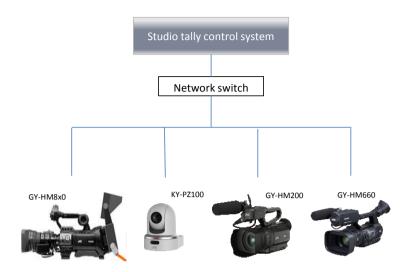
{
    "Request" : {
        "Command" : "SetTallyLampPriority" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
            "Priority" : "Camera"
        }
    }
}
```

Ke	у	Style	Value	HM650	HM660	0x8MH	HM200	LS300	PZ100
Re	sponse								
	Requested	String	SetTallyLampPriority	Yes	Yes	Yes	Yes	Yes	Yes
	Result	String	(Result of command processing.)	Yes	Yes	Yes	Yes	Yes	Yes

```
Example

{
    "Response" : {
        "Requested" : "SetTallyLampPriority" ,
        "Result" : "Success"
     }
}
```

System Chart



LED lighting of each model

			GY-HI	M8x0	KY-PZ100	GY-HM200	GY-HM660
TallyLampPriority	StudioTally	Settings	front	back			
	Program	External or Studio					
Web	Preview	External or Studio	\square				
	Off	External or Studio				\square	
	Program	External or Studio					
		other		\square			
Camera	Preview	External or Studio	\square	\models			
		other	\square				
	Off	External or Studio					
		other					

LCD indication of each model

		GY-HM8X0	KY-PZ100	GY-HM200	GY-HM660
TallyLampPriority	√ StudioTally				
	Program	PGM	PGM	PGM	PGM
Any time	Preview	PVW	PVW	PVW	PVW
	Off				

LCD indication image







^{* &}quot;GetCamStatusMinimum" command can be used to acquire the status as well on KY-PZ100.