

JVC Camcorder Web API Reference

Version 1.21

JVCKENWOOD Corporation

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THIS DOCUMENT DESCRIBES APPLICATION PROGRAMMING INTERFACE TO CONTROL JVC CAMERA RECORDERS VIA NETWORK, AND IT SHALL NOT BE USED FOR ANY OTHER PURPOSE.

## History

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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.
1.08	Added "Serial" parameter to "3.2.1. Get System Information" for "GY-HM660", "GY-HM8x0", "GY-HM200", and "KY-PZ100". Added "3.2.6 Get NTP Status", "3.2.7 Set NTP Server", and "3.2.8 Set NTP settings" Commands for "GY-HM660", "GY-HM8x0", "GY-HM200", and "KY-PZ100". Supported GY-HM25x newly. Error correction. Added "Whb" "Status" parameter to "3.3.1. Get camera status". Changed "3.3.1. Get camera status". Parameter ("Enable" "Streaming" "On/Off") is not effective in "GY-HM200" and "GY-HM25x".
1.09	Added "Serial" parameter to "3.2.1. Get System Information" for "GY-HM650". Added "3.5. How to acquire JPEG data" for "GY-HM650". Supported GY-HC900 newly.
1.10	for "GY-HC900" updates as below. Added some resolution and bitrate parameters to "3.1. Streaming Setting Command". Added "Smpte2022Fec" to "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(RTP)". Added "AdaptiveBitrate" to "3.1.10. Get streaming server settings" and "3.1.14. Set streaming server settings(Zixi)". Added "3.8. Return over IP Command" for "GY-HC900". Added "Resolution" and "FrameRate" to "3.8.3. GetReturnOverIpServerSettings" and "3.8.4. SetReturnOverIpServerSettings(RTSP/Zixi)". Added "3.8.3.1. AvailableTypeOfReturnOverIP" and "3.8.3.2. AvailableFrameRateOfReturnOverIP" commands. Added "IrisBar" parameter to "3.3.7. Set Web Slider Event". Added "Position(Iris)" parameter "3.3.1. Get camera status". Added "PCR Mode" to "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(UDP/Zixi/RTP)". Added "Overlay" and "Tagging" parameter to 3.2.1. Get System Information. Error correction. GY-HC900 does not support "Iris PushAuto" of "3.3.6 Set Web Event".
1.11	Supported GY-HC5x0 newly. Added "3.2.6. Get NTP Status" and "3.2.7. Set NTP Server" for "GY-HC5x0". Added SRT parameter for "GY-HC5x0". "3.2.1. Get System Information", "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings", and "3.1.18. Set streaming server settings(SRT)". Added "PCR Mode" parameter to "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(UDP/Zixi/RTP)" for GY-HC5x0. Added "RTMPS" protocol for "GY-HC5x0". "3.1.7. Available streaming bitrate settings" and "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(RTMPS)".
1.12	Added "3.2.6. Get NTP Status" and "3.2.7. Set NTP Server" for "GY-HC900". Added SRT parameter for "GY-HC900". "3.2.1. Get System Information", "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings", and "3.1.18. Set streaming server settings(SRT)". Added "3.8. Return over IP Command" 30p/25p parameter for "GY-HC5x0". Added "IrisBar" parameter to "3.3.7. Set Web Slider Event" for "GY-HC5x0". Added "Position(Iris)" parameter "3.3.1. Get camera status" for "GY-HC5x0". Added "KA_EN200" parameter to 3.2.1. Get System Information for "GY-HC5x0" and "GY-HC900". Added "422_60p" and "422_50p" parameters to each available streaming settings for "GY-HC5x0" and "GY-HC900" when "KA-EN200" is enabled. "3.1.1. Get streaming settings" and other available settings. Added "EXT slot information" to "3.3.1. Get camera status" for "GY-HC900".

1.13	Added "RTMPS" protocol for "GY-HM250" and "KY-PZ100". "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(RTMPS)".
	Added "3.4.6. Get Pan & Tilt Positions" command for "KY-PZ100".
	Added "Username" parameter to "3.1.13. Set streaming server settings(RTSP/RTP)" for "GY-HC5x0" and "GY-HC900". Error correction. GY-HC900 has supported "SRT" protocol of "3.1.10. Get streaming server settings"
1.14	Added "RTMPS" protocol for "GY-HC900". "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(RTMPS)". "GY-HC5x0" is support "One touch Live" on Facebook and YouTube. "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings". "GY-HC900" and "GY-HC5x0" are support "ZIXI" parameter on streaming type of ZIXI. "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings". Portrait Resolution supported in "GY-HC5x0". "3.1.1. Get streaming settings", "3.1.2. Set streaming resolution", "3.1.5. Available streaming resolution settings" and "3.1.6. Available streaming framerate settings". Error correction. Corrected Parameter member AES-196 to AES-192 in "SRT" protocol. "3.1.10. Get streaming server settings", "3.1.18. Set streaming server settings(SRT)" Added "and SRT Listener mode" cause of streaming error status. "3.3.1 Get camera status", "3.4.5 Get camera status (for remote controller)" Added "RTP" protocol was Missing description. "3.1.7. Available streaming bitrate settings", "3.1.10. Get streaming server settings" Added Explanation of White balance scale and position for "KY-PZ100". "3.3.1. Get camera status" Corrected Parameter key "OnePush" to "Awb", "OnePushTrigger" to "AwbTrigger" for "KY-PZ100". "3.4.5 Get camera status (for remote controller)"
1.15	Added "StreamId", "FEC", "PCRMode", and "AdaptiveBitrate parameters to "3.1.10. Get streaming server settings"/"3.1.18. Set streaming server settings(SRT)" for "GY-HC5x0" and "GY-HC900". Support Return over IP streaming type SRT. "3.8.3. GetReturnOverIpServerSettings" / "3.8.8. SetReturnOverIpServerSettingsSRT" / "3.8.3.1. AvailableTypeOfReturnOverIP" for "GY-HC5x0" and "GY-HC900". Error correction. Corrected encode size parameter "320x181" to "320x180". "3.5.2. Set JPEG encode size" Corrected parameter style "String" to "Integer" in SRT DstPort. "3.1.10. Get streaming server settings" Parameter Button Fullauto event is no support in "KY-PZ100". "3.3.6. Set Web Button Event" Corrected to no space in "2.3 Response form" return value.
1.16	Supported GY-HM280 newly.
1.17	Supported KY-PZ400 newly.
1.18	Supported KY-PZ200 newly.
1.19	Supported KY-PZ510 newly. The following Request Params support String in addition to Integer (for PZ100/400/200). 3.4.1 SetPTCtrl : PanPosition, TiltPosition, PanSpeed, TiltSpeed 3.4.3 ZoomSwitchOperation : Speed 3.4.4 SetPTZPreset : No Error correction. 3.1.10. Get streaming server settings : PZ400/200 does not support Username and Password in Type of RTSP. 3.1.21. GetVideoSettings : Change param name from EncodeLevel to VideoEncodeLevel. 3.2.1 GetSystemInfo : Model in Response was duplicated. 3.3.1 GetCamStatus : PZ100 does not support "Auto" / "Indoor" / "Outdoor" in Whb Status and does not support Bright . 3.4.5 GetCamStatusMinimum : Corrected wrong description word from "Streaming" to "Detail".
1.19.1	Error correction. 3.1.1. GetStreamingSettings : Add PZ510 to 3840x2160 resolution of Response. Add notes of some resolution for PZ510. 3.1.2. SetStreamingResolution : Add PZ510 to 3840x2160 resolution of Request. Add notes of some resolution for PZ510. 3.1.4 SetStreamingBitrate : Correct typo in command description. 3.1.6 AvailableStreamingFramerateSettings : Correct typo in Example. 3.1.10 GetStreamingServerSettings : Correct typo in Example. 3.1.16 SetStreamingServerSettingsRTMPS : Correct typo in Example. 3.1.19 , 3.1.20 , 3.1.22 , 3.1.23 , 3.1.24 , 3.1.26 : Correct typo in command description. 3.2.6 GetNTPStatus : Correct typo in Status of Response from "-tSyncronized" to "Not Syncronized". 3.2.8 SetNTPSettings : Add range of value. 3.3.9 GetGPSInfo : Correct typo in Example. 3.4.1 SetPTCtrl : Correct typo in Example. 3.4.5 GetCamStatusMinimum : Correct typo in Example. 3.4.6 GetPTPosition : Correct typo in Example. 3.7.3. Relation of commands on Studio tally system : Add notes for PZ510. 3.8.4 SetReturnOverIpServerSettingsRTSP : Correct typo in Example. 3.8.5 SetReturnOverIpServerSettingsZIXI : Correct typo in Example.
1.20	Added params. 3.2.10. SystemRequest : Added Restore params.

1.21	<p>Supported auto tracking newly:</p> <ul style="list-style-type: none"> <li>3.9 Auto Tracking Command: Added new chapter.</li> <li>3.3.1. GetCamStatus : Add the following to the response</li> <li>    Data/Tracking</li> <li>    Data/TrackingMode</li> <li>    Data/TrackingBoundingBox</li> <li>    Enable/Tracking</li> <li>    Enable/TrackingMode</li> <li>    Enable/TrackingBoundingBox</li> </ul> <ul style="list-style-type: none"> <li>3.4.2 JoyStickOperation : Add description for auto tracking.</li> <li>3.4.5. GetCamStatusMinimum : Add the following to the response</li> <li>    Data/Tracking</li> <li>    Data/TrackingMode</li> <li>    Enable/Tracking</li> <li>    Enable/TrackingMode</li> </ul> <p>Other new features:</p> <ul style="list-style-type: none"> <li>3.2.10. SystemRequest : Add "Restore" param for request. It works the same as RESTORE in the WebUI.</li> </ul> <p>Error correction:</p> <ul style="list-style-type: none"> <li>3.4.5 GetCamStatusMinimum : "PowerStatus" in Example has been corrected to "VideoOutputStatus" due to typo.</li> </ul>
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## 1. Outline

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### 1.1. Specification

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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	- Control camera
PTZ camera control command	- Control PTZ camera
JPEG data acquisition command	- Acquire JPEG data.
Interruptible feedback settings	- Configure IFB settings.
Studio tally control command	- Control studio tally display.
Return over IP command	- Return over IP Settings and Control.

\* 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.

API Version	Firmware Version												
	GY-HM650	GY-HM660	GY-HM8x0	GY-HM200	GY-HM25x	GY-HM280	GY-LS300	KY-PZ100	GY-HC900	GY-HC5x0	KY-PZ400	KY-PZ200	KY-PZ510
1.00	V0404	-	V0203-0060	V0203-0136	-	-	V0203-0132	-	-	-	-	-	-
1.01	-	V0100-0049	-	-	-	-	-	-	-	-	-	-	-
1.02	-	-	V0300-0067	V0300-0150	-	-	V0300-0143	-	-	-	-	-	-
1.03	-	V0102-0067	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-
1.08	-	V0112-0136	V0307-0098	V0313-0230	V0100-0007	-	-	-	V0104-0118	-	-	-	-
1.09	V0412	-	-	-	-	-	-	-	V0101-0121	-	-	-	-
1.10	-	-	-	-	-	-	-	-	V0230-0217	V0102-0145	-	-	-
1.11	-	-	-	-	-	-	-	-	V0110-0148	-	-	-	-
1.12	-	-	-	-	-	-	-	-	V0300-0250	V0120-0166	-	-	-
1.13	-	-	-	-	V0106-0022	-	-	V0200-0128	-	-	-	-	-
1.14	-	-	-	-	-	-	-	-	V0400-0268	V0200-0201	-	-	-
1.15	-	-	-	-	-	-	-	-	V0410-0277	V0220-0232	-	-	-
1.16	-	-	-	-	-	V0202-0034	-	-	-	-	-	-	-
1.17	-	-	-	-	-	-	-	-	-	v1.1.98	-	-	-
1.18	-	-	-	-	-	-	-	-	-	-	v1.1.20	-	-
1.19	-	-	-	-	-	-	-	-	-	-	-	v2.0.67	-
1.20	-	-	-	-	-	-	-	-	-	-	V1.2.46	V1.1.53	-
1.21	-	-	-	-	-	-	-	-	-	-	-	-	v3.0.12

\* This list shows a API version number which is returned by each firmware.

Newest API document supports most recent firmware on all models.

NOTE: Examples for each Request/Response are just for your reference.

Please replace it with the correct API call according to the model you are using.

## 2. Interface

Support HTTP protocol

API command 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

Username/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'.

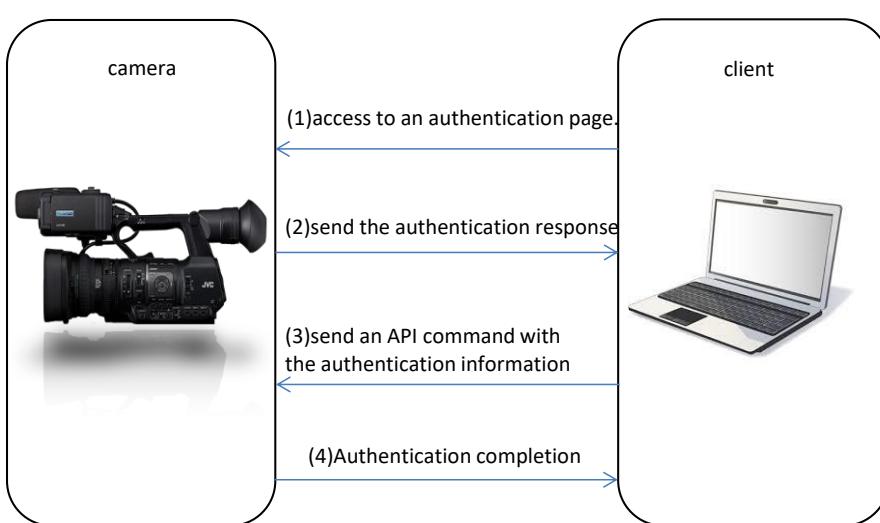
'Session ID' will expire within 30 seconds.

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
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
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
\r\n
```

(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
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
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
Authorization: Digest username="prohd", realm="GY-HM650",
    nonce="7a63056b0a608017c405707e682b9adb", uri="/api.php",
    response="0f4d23f739a0e9fa3b78b826b33eda18", 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=10ffa8dc1bb1cf5f9c252b7b8a20738\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: Camera\r\n
\r\n
```

return to (2) in authentication failure.

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

## 2.2. Request form

---

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
\r\n
```

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

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

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

Example

```
{  
  "Request": {  
    "Command": "GetSystemInfo",  
    "SessionID": "10ffa8dc1bb1cf5f9c252b7b8a20738"  
  }  
}
```

## 2.3. Response form

---

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: Camera\r\n\r\n
```

JavaScript Object Notation: application/json

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

Key	Style	Value
Response		
Requested	String	(Command name)
Result	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) / Failed(Other error)
Data		(You can omit this field if there is no parameter.)
***	***	

Example

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

### 3. Command

---

#### 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.

Zixi and SRT streaming modes are mutually exclusive on GY-HC5x0 and GY-HC900.

Only "Zixi" or "Srt" parameter is effective according to the streaming mode.

Current mode can be checked using GetSystemInfo response.

##### 3.1.1. Get streaming settings

---

Get the streaming setting

Request	Key	Style	Value	HM650		HM660		HM820		HM25x		HM280		LS200		PZ100		HC900		HC5x0		PZ400		PZ200		PZ510	
				HM650	HM660	HM820	HM25x	HM280	LS200	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510												
	Request																										
	Command	String	GetStreamingSettings																								
	SessionID	String	(Session ID in cookie.)																								
	Params																										
	Stream	Integer	0: First, 1: Second																								

Example

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

Example(In case of PZ400/200/510)

```
{  
    "Request": {  
        "Command": "GetStreamingSettings",  
        "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3"  
        "Params": {  
            "Stream": 0  
        }  
    }  
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetStreamingSettings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Data															
	Stream	Integer	0: First, 1: Second	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	Resolution	String	"3840x2160" (PZ400/510: First stream only) "1920x1080" (PZ400/200/510: First stream only) "1440x1080" "1280x720" (PZ400/200/510: First stream only) "1024x576" (PZ400/200/510: First stream only) "720x480" "720x576" "720x408" "640x480" "640x360" "480x320" "480x270" "320x240" "1080x1080" "606x1080" "720x720" "404x720"	—	—	—	—	—	—	—	—	✓	—	✓	✓	✓
	Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" / "422_10bit_60p" / "422_10bit_50p" Character string for Framerate value "1" – "60"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—
	Bitrate	String	"0.2M" "0.3M" "0.8M" "1.5M" "2.5M" "3.0M" "5.0M" "8.0M" "10M" "12M" "16M" "20M" "24M" Character string for Bitrate bps value "32K" – "61440K" (This parameter is valid only H.264/H.265 mode.)	✓	—	—	—	—	—	—	—	—	—	—	—	—
	Qfactor	String	Character string for quality factor value "1" – "99" (This parameter is valid only MJPEG mode.)	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	EncodeProtocol	String	"H264" / "H265" / "MJPEG"	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	IKeyFrameInterval	Integer	Value of I Key Frame Interval 2 – 60	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	BitRateControl	String	"CBR" / "VBR"	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓

\* Framerate "422\_10bit\_60p" and "422\_10bit\_50p" are effective only if optional adaptor "KA-EN200" is attached on 'GY-HC900' and 'GY-HC5x0'.

\* Character string for Framerate value for PZ400/200/510 : If the Video setting is 59.94/29.27, then 60=59.94 and 30=29.97.

Example

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

Example (In case of H.264/H.265 for PZ400/200/510)

```
{  
  "Response": {  
    "Requested": "GetStreamingSettings",  
    "Result": "Success",  
    "Data": {  
      "Stream": 0,  
      "Resolution": "1920x1080",  
      "Framerate": "60",  
      "Bitrate": "4096K",  
      "EncodeProtocol": "H264",  
      "IKeyFrameInterval": 30,  
      "BitRateControl": "CBR"  
    }  
  }  
}
```

Example (In case of MJPEG for PZ400/200/510)

```
{  
  "Response": {  
    "Requested": "GetStreamingSettings",  
    "Result": "Success",  
    "Data": {  
      "Stream": 0,  
      "Resolution": "1920x1080",  
      "Framerate": "60",  
      "Ofactor": "80",  
      "EncodeProtocol": "MJPEG",  
      "IKeyFrameInterval": 30,  
      "BitRateControl": "CBR"  
    }  
  }  
}
```

### 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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingResolution	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	Stream	Integer	0: First, 1: Second	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	Resolution	String	"3840x2160" (PZ400/510: First stream only) "1920x1080" (PZ400/200/510: First stream only) "1440x1080" "1280x720" (PZ400/200/510: First stream only) "1024x576" (PZ400/200/510: First stream only) "720x480" "720x576" "720x408" "640x480" "640x360" "480x320" "480x270" "320x240" "1080x1080" "606x1080" "720x720" "404x720"	—	—	—	—	—	—	—	—	—	✓	—	✓	✓

\* Framerate is fixed by resolution.(HM650/HM660/HM8x0/HM200/HM25x/LS300)

Example

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

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetStreamingResolution",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "Resolution": "1920x1080"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	SetStreamingResolution	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.1.3. Set streaming framerate

Set streaming framerate.

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

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingFramerate	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	Stream	Integer	0: First, 1: Second	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓
	Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" / "422_10bit_60p" / "422_10bit_50p"	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-
			Character string for Framerate value "1" – "60"	-	-	-	-	-	-	-	-	-	✓	✓	-	-

\* Framerate "422\_10bit\_60p" and "422\_10bit\_50p" are effective only if optional adaptor "KA-EN200" is attached on 'GY-HC900' and 'GY-HC5x0'.

\* Character string for Framerate value for PZ400/200/510 : If the Video setting is 59.94/29.27, then 60=59.94 and 30=29.97.

Example

```
{
  "Request": {
    "Command": "SetStreamingFramerate",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Framerate": "30p"
    }
  }
}
```

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetStreamingFramerate",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "Framerate": "30"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingFramerate	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	
	Request															
	Command	String	SetStreamingBitrate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	Stream	Integer	0: First, 1: Second	—	—	—	—	—	—	—	—	—	✓	✓	✓	
	Bitrate	String	"0.2M"	✓	—	—	—	—	—	—	—	—	—	—	—	
			"0.3M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"0.8M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"1.5M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"2.5M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"3.0M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"5.0M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"8.0M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"10M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"12M"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
			"16M"	—	—	—	—	—	—	—	✓	✓	✓	✓	—	
			"20M"	—	—	—	—	—	—	—	✓	✓	✓	✓	—	
			"24M"	—	—	—	—	—	—	—	✓	✓	✓	✓	—	
			Character string for Bitrate bps value "32K" – "61440K" (This parameter is valid only H.264/H.265 mode.)	—	—	—	—	—	—	—	—	✓	✓	✓	✓	
	Qfactor	String	Character string for quality factor value "1" – "99" (This parameter is valid only MJPEG mode.)	—	—	—	—	—	—	—	—	✓	✓	✓	✓	
	BitRateControl	String	"CBR" / "VBR"	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓

\*In case of PZ400/200/510, BitRateControl are always needed. The corresponding Value of Bitrate and Qfactor is used depending on the mode.

\*In case of PZ400/200/510, This settings specified in each Params item must be set in the camera after a reboot.

## Example

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

Example (In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetStreamingBitrate",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "Bitrate": "4096K",
      "Qfactor": "80",
      "BitRateControl": "CBR"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	SetStreamingBitrate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Request																
Command	String	AvailableStreamingResolutionSettings		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SessionID	String	(Session ID in cookie.)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Params																
Stream	Integer	0: First, 1: Second		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓

Example

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

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "AvailableStreamingResolutionSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3"
    "Params": {
      "Stream": 0
    }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
Requested	String	AvailableStreamingResolutionSettings		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Result	String	(Result of command processing.)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data																
Stream	Integer	0: First, 1: Second		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
AvailableResolution																
3840x2160	Integer	0 : unselectable , 1 : selectable (PZ400/510: First stream only)		—	—	—	—	—	—	—	—	—	✓	—	✓	✓
1920x1080	Integer	0 : unselectable , 1 : selectable (PZ400/200/510: First stream only)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1440x1080	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	—	—	—	—	—
1280x720	Integer	0 : unselectable , 1 : selectable (PZ400/200/510: First stream only)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1024x576	Integer	0 : unselectable , 1 : selectable (PZ400/200/510: First stream only)		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
720x480	Integer	0 : unselectable , 1 : selectable		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
720x576	Integer	0 : unselectable , 1 : selectable		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
720x408	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
640x480	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
640x360	Integer	0 : unselectable , 1 : selectable		—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
480x320	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
480x270	Integer	0 : unselectable , 1 : selectable		✓	—	—	—	—	—	—	—	—	—	—	—	—
320x240	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
1080x1080	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	✓	—	—	—	—
606x1080	Integer	0 : unselectable , 1 : selectable		—	—	—	—	—	—	—	—	✓	—	—	—	—
720x720	Integer	0 : unselectable , 1 : selectable		—	—	—	—	✓	✓	—	—	✓	—	✓	—	—
404x720	Integer	0 : unselectable , 1 : selectable		—	—	—	—	✓	✓	—	—	✓	—	✓	—	—

Example

```
{  
  "Response": {  
    "Requested": "AvailableStreamingResolutionSettings",  
    "Result": "Success",  
    "Data": {  
      "AvailableResolution": {  
        "1920x1080": 1,  
        "1440x1080": 0,  
        "1280x720": 0,  
        "720x480": 0,  
        "720x576": 0,  
        "640x360": 0,  
        "480x270": 0  
      }  
    }  
  }  
}
```

Example(In case of PZ400/200/510)

```
{  
  "Response": {  
    "Requested": "AvailableStreamingResolutionSettings",  
    "Result": "Success",  
    "Data": {  
      "Stream": 0,  
      "AvailableResolution": {  
        "3840x2160": 1,  
        "1920x1080": 1,  
        "1280x720": 1,  
        "1024x576": 1,  
        "720x480": 1,  
        "720x408": 1,  
        "640x480": 1,  
        "640x360": 1,  
        "480x320": 0,  
        "320x240": 0  
      }  
    }  
  }  
}
```

### **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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x0	HM280	LS300	PZ100	HC900	PZ400	PZ200
	Request													
	Command	String	AvailableStreamingFramerateSettings	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params													
	Stream	Integer	0: First, 1: Second	-	-	-	-	-	-	-	-	-	✓	✓
	Resolution	String	"3840x2160" (PZ400/510: First stream only)	-	-	-	-	-	-	-	-	-	✓	-
			"1920x1080" (PZ400/200/510: First stream only)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"1280x720" (PZ400/200/510: First stream only)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"1024x576" (PZ400/200/510: First stream only)	-	-	-	-	-	-	-	-	-	✓	✓
			"720x480"	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"720x576"	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
			"720x408"	-	-	-	-	-	-	-	-	-	✓	✓
			"640x480"	-	-	-	-	-	-	-	-	-	✓	✓
			"640x360"	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"480x320"	-	-	-	-	-	-	-	-	-	✓	✓
			"320x240"	-	-	-	-	-	-	-	-	-	✓	✓
			"1080x1080"	-	-	-	-	-	-	-	-	-	✓	-
			"606x1080"	-	-	-	-	-	-	-	-	✓	✓	-
			"720x720"	-	-	-	-	✓	✓	-	-	✓	-	-
			"404x720"	-	-	-	-	✓	✓	-	-	✓	-	-

### Example

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

Example (In case of PZ400/200/510)

```
{  
    "Request": {  
        "Command": "AvailableStreamingFramerateSettings",  
        "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3"  
    },  
    "Params": {  
        "Stream": 0,  
        "Resolution": "1920x1080"  
    },  
    "  
    }  
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Response																
	Requested	String	AvailableStreamingFramerateSettings	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓													
	Result	String	(Result of command processing.)	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓													
	Data																
	Stream	Integer	0: First, 1: Second	- - - - - - - - - - - ✓ ✓ ✓													
	Resolution	String	"3840x2160" (PZ400/510: First stream only) "1920x1080" (PZ400/200/510: First stream only) "1280x720" (PZ400/200/510: First stream only) "1024x576" (PZ400/200/510: First stream only) "720x480" "720x576" "720x408" "640x480" "640x360" "480x320" "320x240" "1080x1080" "606x1080" "720x720" "404x720"	- - - - - - - - - - - ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓													
	AvailableFramerate																
	60p	Integer	0 : unselectable , 1 : selectable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -													
	60i	Integer	0 : unselectable , 1 : selectable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -													
	30p	Integer	0 : unselectable , 1 : selectable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -													
	50p	Integer	0 : unselectable , 1 : selectable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -													
	50i	Integer	0 : unselectable , 1 : selectable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -													
	25p	Integer	0 : unselectable , 1 : selectable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -													
	422_10bit_60p	Integer	0 : unselectable , 1 : selectable	- - - - - - - - - - - ✓ ✓ - - -													
	422_10bit_50p	Integer	0 : unselectable , 1 : selectable	- - - - - - - - - - - ✓ ✓ - - -													
	max_25	Integer	0 : unselectable , 1 : selectable	- - - - - - - - - - - - - - - - - ✓ ✓ ✓													
	max_30	Integer	0 : unselectable , 1 : selectable	- - - - - - - - - - - - - - - - - ✓ ✓ ✓													
	max_50	Integer	0 : unselectable , 1 : selectable	- - - - - - - - - - - - - - - - - ✓ ✓ ✓													
	max_60	Integer	0 : unselectable , 1 : selectable	- - - - - - - - - - - - - - - - - ✓ ✓ ✓													

\* Framerate "422\_10bit\_60p" and "422\_10bit\_50p" are effective only if optional adaptor "KA-EN200" is attached on 'GY-HC900' and 'GY-HC5x0'.

Example

```
{  
  "Response": {  
    "Requested": "AvailableStreamingFramerateSettings",  
    "Result": "Success",  
    "Data": {  
      "Resolution": "1920x1080",  
      "AvailableFramerate": {  
        "60p": 1,  
        "60i": 0,  
        "30p": 0,  
        "50p": 0,  
        "50i": 0,  
        "25p": 0,  
        "422_10bit_60p": 0,  
        "422_10bit_50p": 0  
      }  
    }  
  }  
}
```

Example(In case of PZ400/200/510)

```
{  
  "Response": {  
    "Requested": "AvailableStreamingFramerateSettings",  
    "Result": "Success",  
    "Data": {  
      "Stream": 0,  
      "Resolution": "1920x1080",  
      "AvailableFramerate": {  
        "max_25": 0,  
        "max_30": 0,  
        "max_50": 0,  
        "max_60": 1  
      }  
    }  
  }  
}
```

### 3.1.7. Available streaming bitrate settings

---

Get available streaming bitrate settings

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	AvailableStreamingBitrateSettings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	Stream	Integer	0: First, 1: Second	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	Type	String	"UDP" / "UDPN" (PCR Jitter is - rmal) / "UDPL"(PCR Jitter is Low) / "TCP" / "RTSP" / "ZIXIM"(Zixi Medium/Minimum/High Latency) / "ZIXIL"(Zixi Low Latency) / "ZIXI" / "RTMP" / "RTMPS" / "RTP" / "Facebook" / "YouTube" / "SRT"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Resolution	String	"3840x2160" (PZ400/510: First stream only) "1920x1080" (PZ400/200/510: First stream only) "1280x720" (PZ400/200/510: First stream only) "1024x576" (PZ400/200/510: First stream only) "720x480" "720x576" "720x408" "640x480" "640x360" "480x320" "320x240" "1080x1080" "606x1080" "720x720" "404x720"	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" / "422_10bit_60p" / "422_10bit_50p" Character string for Framerate value "1" - "60"	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	—

\* Framerate "422\_10bit\_60p" and "422\_10bit\_50p" are effective only if optional adaptor "KA-EN200" is attached on 'GY-HC900' and 'GY-HC5x0'.

\* Character string for Framerate value for PZ400/200/510 : If the Video setting is 59.94/29.27, then 60=59.94 and 30=29.97.

### Example

```
{
  "Request": {
    "Command": "AvailableStreamingBitrateSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Type": "TCP",
      "Resolution": "1920x1080",
      "Framerate": "60p"
    }
  }
}
```

### Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "AvailableStreamingBitrateSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "Type": "RTSP",
      "Resolution": "1920x1080",
      "Framerate": "30"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	AvailableStreamingBitrateSettings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Data															
	Stream	Integer	0: First, 1: Second	—	—	—	—	—	—	—	—	—	✓	✓	✓	
	Type	String	"UDP" / "UDPN" (PCR Jitter is -rmal) / "UDPL"(PCR Jitter is Low) / "TCP" / "RTSP" / "ZIXIM"(Zixi Medium/Minimum/High Latency) / "ZIXIL"(Zixi Low Latency) / "ZIXI" / "RTMP" / "RTMPS" / "RTP" / "Facebook" / "YouTube" / "SRT"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Resolution	String	"3840x2160" (PZ400/510: First stream only) "1920x1080" (PZ400/200/510: First stream only) "1280x720" (PZ400/200/510: First stream only) "1024x576" (PZ400/200/510: First stream only) "720x480" "720x576" "720x408" "640x480" "640x360" "480x320" "320x240" "1080x1080" "606x1080" "720x720" "404x720"	—	—	—	—	—	—	—	—	✓	—	✓	✓	
	Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" / "422_10bit_60p" / "422_10bit_50p" Character string for Framerate value "1" – "60"	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓	

\* Framerate "422\_10bit\_60p" and "422\_10bit\_50p" are effective only if optional adaptor "KA-EN200" is attached on 'GY-HC900' and 'GY-HC5x0'.

\* Character string for Framerate value for PZ400/200/510 : If the Video setting is 59.94/29.27, then 60=59.94 and 30=29.97.

## Example

```
{  
    "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,  
                "24M": 1  
            }  
        }  
    }  
}
```

Example (In case of PZ400/200/510)

```
{  
    "Response": {  
        "Requested": "AvailableStreamingBitrateSettings",  
        "Result": "Success",  
        "Data": {  
            "Stream": 0,  
            "Type": "RTSP",  
            "Resolution": "1920x1080",  
            "Framerate": "30",  
            "AvailableBitrate": {  
                "32K-61440K": 1  
            }  
        }  
    }  
}
```

### 3.1.8. Get current streaming server number

---

Get current streaming server ID.

There are four settings of streaming server .

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetCurrentStreamingServerID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetCurrentStreamingServerID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Data															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—

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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Request																
Command	String	SetCurrentStreamingServerID		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
SessionID	String	(Session ID in cookie.)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
Params																
ID	Integer	0:server1, 1: server2, 2: server3, 3: server4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
Requested	String	SetCurrentStreamingServerID		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
Result	String	(Result of command processing.)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

### **3.1.10. Get streaming server settings**

Get streaming settings for each server ID.

Request	Key	Style	Value	HM6650	HM6660	HM8x0	HM200	HM255x	HM280x	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	
	Request															
	Command	String	GetStreamingServerSettings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—
	Type	String	"RTSP" / "RTSP2" / "RTMP" / "RTMP2" / "RTMPS" / "RTMPS2" / "SRT" / "Multicast" / "NDI" "RTSP" / "RTSP2" / "RTMP" / "RTMP2" / "RTMPS" / "RTMPS2" / "SRT" / "NDI" / "MPEG2-TS" / "MPEG2-TS2"	—	—	—	—	—	—	—	—	—	✓	✓	—	

## Example

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

Example (In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "GetStreamingServerSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Type": "RTSP"
    }
  }
}
```



Multicast	(Selected by Type)								
	Status	Integer 0:OFF, 1:ON	-	-	-	-	-	-	✓ ✓ -
	DstAddress	String (IP address)	-	-	-	-	-	-	✓ ✓ -
	DstPort	Integer (Port number)	-	-	-	-	-	-	✓ ✓ -
	Ndi	(Selected by Type)							
	DeviceName	String (text)	-	-	-	-	-	-	✓ ✓ -
	GroupName	String (text)	-	-	-	-	-	-	✓ ✓ -
	Mpeg2Ts	(Selected by Type "MPEG2-TS" and "MPEG2-TS2")							
	Type	Integer 0: UDP, 1: RTP *A setting for either MPEG-TS or MPEG-TS2 is valid for both.	-	-	-	-	-	-	✓ -
	DstAddress	String (IP address / Server name) *Multicast address is valid	-	-	-	-	-	-	✓ -
	DstPort	Integer (Port number)	-	-	-	-	-	-	✓ -
	Status	Integer 0:OFF, 1:ON	-	-	-	-	-	-	✓ -

## Example

```
{  
    "Response": {  
        "Requested": "GetStreamingServerSettings",  
        "Result": "Success",  
        "Data": {  
            "Alias": "Server1",  
            "Type": "TCP",  
            "Tcp": {  
                "DstAddress": "192.168.0.1",  
                "DstPort": 6504  
            }  
        }  
    }  
}
```

Example (In case of PZ400/200/510)

```
{  
    "Response": {  
        "Requested": "GetStreamingServerSettings",  
        "Result": "Success",  
        "Data": {  
            "Type": "RTSP",  
            "Rtsp": {  
                "DstPort": 554,  
                "StreamId": "1",  
                "Auth": 1  
            }  
        }  
    }  
}
```

### 3.1.11. Set streaming server settings(UDP)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsUDP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Alias	String	(Another name of server)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DstAddress	String	(IP address)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DstPort	Integer	(Port number)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PcrMode	Integer	0:Standard, 1:Fast	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	PcrJitter	Integer	0:— RMAL, 1:LOW	—	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsUDP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

```
{
  "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', 'GY-HC5x0', and 'GY-HC900'.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsTCP	✓	—	—	—	—	—	✓	✓	✓	—	—	—	—
	SessionID	String	(Session ID in cookie.)	✓	—	—	—	—	—	✓	✓	✓	—	—	—	—
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	—	—	—	—	—	✓	✓	✓	—	—	—	—
	Alias	String	(Another name of server)	✓	—	—	—	—	—	✓	✓	✓	—	—	—	—
	DstAddress	String	(IP address)	✓	—	—	—	—	—	✓	✓	✓	—	—	—	—
	DstPort	Integer	(Port number)	✓	—	—	—	—	—	✓	✓	✓	—	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsTCP	✓	—	—	—	—	—	—	✓	✓	—	—	—	—
	Result	String	(Result of command processing.)	✓	—	—	—	—	—	—	✓	✓	—	—	—	—

Example

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

### 3.1.13. Set streaming server settings(RTSP/RTP)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsRTSP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Alias	String	(Another name of server)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Username	String	(Username for RTSP/RTP)	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓
	Password	String	(Password for RTSP/RTP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DstPort	Integer	(Port number)	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	Auth	Integer	0:OFF, 1:ON	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓

Example

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

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetStreamingServerSettingsRTSP",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "DstPort": 554,
      "Auth": 1
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsRTSP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.1.14. Set streaming server settings(ZIXI)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsZIXI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Alias	String	(Another name of server)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DstAddress	String	(IP address)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DstPort	Integer	(Port number)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	StreamId	String	(Stream ID for ZIXI)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Password	String	(Password for ZIXI)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Latency	Integer	0:Low, 1:Medium, 2:Minimum(Zixi OFF), 3:High	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PcrMode	Integer	0:Standard, 1:Fast	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	AdaptiveBitrate	Integer	0:OFF, 1:ON	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* High Latency of Type is effective in 'GY-HM660', 'GY-HM200', 'GY-HM25k', 'GY-HM280', '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	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsZIXI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.1.15. Set streaming server settings(RTMP)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsRTMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Alias	String	(Another name of server)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Stream	Integer	0: First, 1: Second	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	DstUrl	String	(Network URL for Delivery)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	StreamKey	String	(Key for Delivery)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Status	Integer	0:OFF, 1:ON (Other settings are valid when this is ON.)	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	Video	Integer	0:Disable, 1:Enable	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	Audio	Integer	0:Disable, 1:Enable	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓

Example

```
{
  "Request": {
    "Command": "SetStreamingServerSettingsRTMP",
    "SessionID": "7425fbc58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID": 1,
      "Alias": "Server1",
      "DstUrl": "rtmp://xxxx.xxxx.xxxx-xxx.com/play",
      "StreamKey": "livestreaming"
    }
  }
}
```

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetStreamingServerSettingsRTMP",
    "SessionID": "7425fbc58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "DstUrl": "rtmp://xxxx.xxxx.xxxx-xxx.com/live",
      "StreamKey": "stream0",
      "Status": 1,
      "Video": 0,
      "Audio": 0
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsRTMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.1.16. Set streaming server settings(RTMPS)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsRTMPS	-	-	-	-	✓	✓	-	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	✓	✓	-	✓	✓	✓	✓	✓	✓
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	-	-	-	-	✓	✓	-	✓	✓	✓	-	-	-
	Alias	String	(Another name of server)	-	-	-	-	✓	✓	-	✓	✓	✓	-	-	-
	Stream	Integer	0: First, 1: Second	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓
	DstUrl	String	(Network URL for Delivery)	-	-	-	-	✓	✓	-	✓	✓	✓	✓	✓	✓
	StreamKey	String	(Key for Delivery)	-	-	-	-	✓	✓	-	✓	✓	✓	✓	✓	✓
	Status	Integer	0:OFF, 1:ON (Other settings are valid when this is ON.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓
	Video	Integer	0:Disable, 1:Enable	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓
	Audio	Integer	0:Disable, 1:Enable	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓

Example

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

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetStreamingServerSettingsRTMPS",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "DstUrl": "rtmps://xxxx.xxxx.xxxx-xxx.com/live",
      "StreamKey": "stream0",
      "Status": 1,
      "Video": 0,
      "Audio": 0
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsRTMPS	-	-	-	-	✓	✓	-	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	✓	✓	-	✓	✓	✓	✓	✓	✓

Example

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

### 3.1.17. Set streaming server settings(RTP)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsRTP	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	Alias	String	(Another name of server)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	DstAddress	String	(IP address)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	DstPort	Integer	(Port number)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	PcrMode	Integer	0:Standard, 1:Fast	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Smpte2022Fec	Integer	0:OFF, 1:ON	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	FecMatrixL	Integer	4 - 20	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	FecMatrixD	Integer	4 - 20	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-

\* FecMatrixL 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
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsRTP	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-

Example

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

### 3.1.18. Set streaming server settings(SRT)

Set streaming settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsSRT	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	Params															
	ID	integer	0:server1, 1: server2, 2: server3, 3: server4	-	-	-	-	-	-	-	✓	✓	-	-	-	
	Alias	string	(Another name of server)	-	-	-	-	-	-	-	✓	✓	-	-	-	
	DstAddress	string	(IP Address)	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	DstPort	integer	1 - 65535	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	StreamId	string	(Stream ID for SRT)	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	ConnectionMode	integer	0: Caller 1: Listener, 2: Rendezvous	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	BandwidthOverhead	integer	5 - 100	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	Latency	integer	20 - 8000	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	Encryption	integer	0: OFF, 1: AES-128, 2: AES-192 3: AES-256	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	FEC	integer	0: OFF, 1: 10x10, 2: 8x8 3: 6x6	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	AdaptiveBitrate	Integer	0:OFF, 1:ON	-	-	-	-	-	-	-	✓	✓	-	-	-	
	PcrMode	Integer	0:Standard, 1:Fast	-	-	-	-	-	-	-	✓	✓	-	-	-	
	Passphrase	string	ASCII 10-79 character	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	
	Status	Integer	0:OFF, 1:ON (Other settings are valid when this is ON. The second stream is not supported, it works as OFF regardless of the setting.)	-	-	-	-	-	-	-	-	✓	✓	✓	✓	

Example

```
{
  "Request": {
    "Command" : "SetStreamingServerSettingsSRT",
    "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID" : 0,
      "Alias" : "Server1",
      "DstAddress": "192.168.0.1",
      "DstPort": 6504
      "ConnectionMode" : 0
      "BandwidthOverhead" : 10
      "Latency": 20
      "Encryption": 0
      "Passphrase" : "abcdefghijkl"
    }
  }
}
```

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command" : "SetStreamingServerSettingsSRT",
    "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params":{
      "DstAddress":"192.0.2.1",
      "DstPort":4578,
      "StreamId":"PZ510-AABBCCDD",
      "ConnectionMode":1,
      "BandwidthOverhead":25,
      "Latency":500,
      "Encryption":0,
      "FEC":0,
      "Passphrase":"1234567890",
      "Status":1
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	SetStreamingServerSettingsSRT	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓

Example

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

### 3.1.19. Set Streaming Encode Protocol

Set Streaming Encode Protocol

This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingEncodeProtocol	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	Params															
	Stream	Integer	0: First, 1: Second	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	EncodeProtocol	String	"H264" / "H265" / "MJPEG"	-	-	-	-	-	-	-	-	-	-	✓	✓	✓

Example

```
{
  "Request": {
    "Command": "SetStreamingEncodeProtocol",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "EncodeProtocol": "H264"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingEncodeProtocol	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓

Example

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

### 3.1.20. Set Streaming I Key Frame Interval

---

#### Set Streaming I Key Frame Interval

This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingIKeyFrameInterval	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	Params															
	Stream	Integer	0: First, 1: Second	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	Interval	Integer	Value of I Key Frame Interval 2 - 60	-	-	-	-	-	-	-	-	-	-	✓	✓	✓

#### Example

```
{
  "Request": {
    "Command": "SetStreamingIKeyFrameInterval",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "Interval": 30
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingIKeyFrameInterval	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓

#### Example

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

### 3.1.21. Get Video Settings

Get the Video settings

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request			-	-	-	-	-	-	-	-	-	-	-	-	
	Command	String	GetVideoSettings	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response			-	-	-	-	-	-	-	-	-	-	-	-	
	Requested	String	GetVideoSettings	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Data			-	-	-	-	-	-	-	-	-	-	-	-	
	Output	String	"SDI" / "HDMI"	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	VideoFormat	String	"50Hz" / "60Hz" / "DialPriority" "3840x2160/60p" / "3840x2160/59.94p" / "3840x2160/50p" / "3840x2160/30p" / "3840x2160/29.97p" / "3840x2160/25p" / "1920x1080/60p" / "1920x1080/59.94p" / "1920x1080/50p" / "1920x1080/60i" / "1920x1080/59.94i" / "1920x1080/50i" / "1920x1080/30p" / "1920x1080/29.97p" / "1920x1080/25p" / "1280x720/60p" / "1280x720/59.94p" / "1280x720/50p" *3840x2160 is available only for HDMI	-	-	-	-	-	-	-	-	-	-	-	-	
	VideoEncodeLevel	String	"mainprofile" / "highprofile"	-	-	-	-	-	-	-	-	-	✓	✓	✓	

Example

```
{
  "Response": {
    "Requested": "GetVideoSettings",
    "Result": "Success",
    "Data": {
      "Output": "HDMI",
      "VideoFormat": "DialPriority",
      "EncodeLevel": "mainprofile"
    }
  }
}
```

### 3.1.22. Set Video HDMI/SDI Output

---

Set Video HDMI/SDI Output.

This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetVideoHdmiSdiOutput	—	—	—	—	—	—	—	—	✓	✓	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	✓	✓	✓		
	Params															
	Output	String	"SDI" / "HDMI"	—	—	—	—	—	—	—	—	✓	✓	✓		

Example

```
{
  "Request": {
    "Command": "SetVideoHdmiSdiOutput",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Output": "HDMI"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetVideoHdmiSdiOutput	—	—	—	—	—	—	—	—	—	✓	✓	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	✓	✓	✓	

Example

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

### 3.1.23. Set Video Format

Set Video Format.

This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetVideoFormat	—	—	—	—	—	—	—	—	✓	✓	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	✓	✓	✓		
	Params															
	VideoFormat	String	"50Hz" / "60Hz" / "DialPriority" "3840x2160/60p" / "3840x2160/59.94p" / "3840x2160/50p" / "3840x2160/30p" / "3840x2160/29.97p" / "3840x2160/25p" / "1920x1080/60p" / "1920x1080/59.94p" / "1920x1080/50p" / "1920x1080/60i" / "1920x1080/59.94i" / "1920x1080/50i" / "1920x1080/30p" / "1920x1080/29.97p" / "1920x1080/25p" / "1280x720/60p" / "1280x720/59.94p" / "1280x720/50p" *3840x2160 is available only for HDMI	—	—	—	—	—	—	—	—	✓	✓	—	✓	

Example

```
{
  "Request": {
    "Command": "SetVideoFormat",
    "SessionID": "7425fbccb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "VideoFormat": "DialPriority"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetVideoFormat	—	—	—	—	—	—	—	—	✓	✓	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	✓	✓	✓		

Example

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

### 3.1.24. Set Video Encode Level

---

Set Video Encode Level.

This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetVideoEncodeLevel	—	—	—	—	—	—	—	—	✓	✓	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	✓	✓	✓		
	Params															
	EncodeLevel	String	"mainprofile" / "highprofile"	—	—	—	—	—	—	—	—	✓	✓	✓		

Example

```
{
  "Request": {
    "Command": "SetVideoEncodeLevel",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "EncodeLevel": "mainprofile"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetVideoEncodeLevel	—	—	—	—	—	—	—	—	—	✓	✓	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	✓	✓	✓	

Example

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

### 3.1.26. Set Network Multicast Settings

Set the Network Multicast Settings.  
This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetNetworkMulticastSettings	-	-	-	-	-	-	-	-	-	✓	✓	-	
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	✓	✓	-	
	Params															
	Status	Integer	0:OFF, 1:ON (Other settings are valid when this is ON.)	-	-	-	-	-	-	-	-	-	✓	✓	-	
	DstAddress	String	(IP address)	-	-	-	-	-	-	-	-	-	✓	✓	-	
	DstPort	Integer	(Port number)	-	-	-	-	-	-	-	-	-	✓	✓	-	

#### Example

```
{
  "Request": {
    "Command": "SetNetworkMulticastSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Status": 1,
      "DstAddress": "224.1.2.3",
      "DstPort": 6688
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetNetworkMulticastSettings	-	-	-	-	-	-	-	-	-	✓	✓	-	
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	✓	✓	-	

#### Example

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

### 3.1.27. Set NDI Settings

Set the NDI Settings.

This setting will not take effect until reboot.

KY-PZ200 does not support NDI streaming and this command is supported only by KY-PZ200N.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request			-	-	-	-	-	-	-	-	-	-	-	-	
	Command	String	SetNDISettings	-	-	-	-	-	-	-	-	✓	✓	✓	-	-
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	✓	✓	✓	-	-
	Params			-	-	-	-	-	-	-	-	-	-	-	-	-
	DeviceName	String	(text)	-	-	-	-	-	-	-	-	✓	✓	✓	-	-
	GroupName	String	(text)	-	-	-	-	-	-	-	-	✓	✓	✓	-	-

#### Example

```
{
  "Request": {
    "Command": "SetNDISettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "DeviceName": "HD Camera",
      "GroupName": "public"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response			-	-	-	-	-	-	-	-	-	-	-	-	-
	Requested	String	SetNDISettings	-	-	-	-	-	-	-	-	✓	✓	✓	-	-
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	✓	✓	✓	-	-

#### Example

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

### 3.1.28. Set MPEG2-TS Settings

Set the MPEG2-TS Settings.

This setting will not take effect until reboot.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingServerSettingsMPEG2TS	-	-	-	-	-	-	-	-	-	-	-	✓	
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	-	-	✓	
	Params															
	Stream	Integer	0: First, 1: Second	-	-	-	-	-	-	-	-	-	-	-	✓	
	Type	Integer	0: UDP, 1: RTP (A setting for either MPEG-TS or MPEG-TS2 is valid for both.)	-	-	-	-	-	-	-	-	-	-	-	✓	
	DstAddress	string	(IP Address / Server name)	-	-	-	-	-	-	-	-	-	-	-	✓	
	DstPort	Integer	(Port number)	-	-	-	-	-	-	-	-	-	-	-	✓	
	Status	Integer	0:OFF, 1:ON (Other settings are valid when this is ON.)	-	-	-	-	-	-	-	-	-	-	-	✓	

Example

```
{
  "Request": {
    "Command": "SetStreamingServerSettingsMPEG2TS",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Stream": 0,
      "Type": 0,
      "DstAddress": "192.168.0.1",
      "DstPort": 6688,
      "Status": 1
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingServerSettingsMPEG2TS	-	-	-	-	-	-	-	-	-	-	-	✓	
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	-	-	✓	

Example

```
{
  "Response": {
    "Requested": "SetStreamingServerSettingsMPEG2TS",
    "Result": "Success"
  }
}
```

### 3.2. System Command

Zixi and SRT streaming modes are mutually exclusive on GY-HC5x0 and GY-HC900.  
Only "Zixi" or "Srt" parameter is effective according to the streaming mode.  
Current mode can be checked using GetSystemInfo response.

#### 3.2.1. Get System Information

System information acquisition

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Request																
	Command	String	GetSystemInfo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetSystemInfo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Data															
	Model	String	Model information "UNKNOWN" / "HM650"(GY-HM650) / "HM850"(GY-HM850) / "HM890"(GY-HM890) / "HM200"(GY-HM200) / "LS300"(GY-LS300) / "HM250"(GY-HM250) / "HM258"(GY-HM258) / "HM280"(GY-HM280) / "HM660"(GY-HM660) / "PZ100"(GY-PZ100) / "PZ400"(GY-PZ400) / "PZ200"(GY-PZ200) / "PZ510"(GY-PZ510) / "HC500"(GY-HC500) / "HC550"(GY-HC550) / "HC900"(GY-HC900)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Destination	String	Place of destination "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	WebAPI Version "XX.YYY.ZZZ" (XX:Major ver. YYY:Minor ver. ZZZ:Development ver)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Serial	String	Serial number	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-

		"xxxxxxxx"													
Resolution	String	Resolution of recording format. "1920x1080" / "1440x1080" / "1280x720" / "720x480" / "720x576" / "640x360" / "480x270"	-	-	-	-	-	-	-	-	✓	✓	-	-	-
Overlay	String	Overlay option "On" / "Off"	-	-	-	✓	✓	✓	-	-	✓	✓	-	-	-
Tagging	String	Tagging option "On" / "Off"	✓	✓	-	-	-	-	-	-	✓	-	-	-	-
Zixi	String	Zixi option "On" / "Off"	-	-	-	-	-	-	-	-	✓	✓	-	-	-
Srt	String	Srt option "On" / "Off"	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓
NDI	String	NDI option      Information on whether the camera has an NDI function. "On" / "Off"	-	-	-	-	-	-	-	-	-	-	-	-	✓
KA_EN200	String	KA-EN200 option adaptor setting "On" / "Off"	-	-	-	-	-	-	-	-	✓	✓	-	-	-

Example

```
{
  "Response": {
    "Requested": "GetSystemInfo",
    "Result": "Success",
    "Data": {
      "Model": "HM650",
      "Destination": "JP",
      "ApiVersion": "0.13.0",
      "Serial": "123A1234",
      "Tagging": "Off"
    }
  }
}
```

Example(In case of PZ400/200)

```
{
  "Response": {
    "Requested": "GetSystemInfo",
    "Result": "Success",
    "Data": {
      "Model": "PZ400",
      "Destination": "JP",
      "ApiVersion": "1.14.001",
      "Serial": "123A1234",
      "Srt": "On"
    }
  }
}
```

### 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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SessionRenewal	✓	-	-	-	-	-	-	-	-	-	-	-	-
	SessionID	String	(Session ID in cookie.)	✓	-	-	-	-	-	-	-	-	-	-	-	-
	Params															
	Update	Integer	0:False(Time-out immediately) 1:True(Time-out extension)	✓	-	-	-	-	-	-	-	-	-	-	-	-

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SessionRenewal	✓	-	-	-	-	-	-	-	-	-	-	-	-
	Result	String	(Result of command processing.)	✓	-	-	-	-	-	-	-	-	-	-	-	-

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

### 3.2.3. Get preset zoom position

---

Acquire the preset zoom position.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Request																
	Command	String	GetPresetZoomPosition	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetPresetZoomPosition	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Data															
	A	Integer	Value of Preset "0" - "499",no-setting "-1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	B	Integer	Value of Preset "0" - "499",no-setting "-1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	C	Integer	Value of Preset "0" - "499",no-setting "-1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetPresetZoomPosition	✓	✓	✓	✓	✓	✓	✓	—	—	✓	—	—	—
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	—	—	✓	—	—	—
	Params															
	ID	String	"A"/"B"/"C" is Preset ID	✓	✓	✓	✓	✓	✓	✓	—	—	✓	—	—	—
	Position	Integer	Value of Preset "0" - "499"; delete setting is "-1"	✓	✓	✓	✓	✓	✓	✓	—	—	✓	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetPresetZoomPosition	✓	✓	✓	✓	✓	✓	✓	—	—	✓	—	—	—
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	—	—	✓	—	—	—

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".

### 3.2.6. Get NTP Status

---

Acquire the status of NTP.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetNTPStatus	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetNTPStatus	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	Data															
	Address	String	(IP address)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	TcSync	String	"On" / "Off"	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	Status	String	"Syncronized" / "Not Syncronized" / "Master"	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-

Example

```
{  
  "Response": {  
    "Requested": "GetNTPStatus",  
    "Result": "Success",  
    "Data": {  
      "Address": "192.168.0.100",  
      "TcSync": "On",  
      "Status": "Syncronized"  
    }  
  }  
}
```

### 3.2.7. Set NTP Server

---

Set the NTP server address.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetNTPServer	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	Params															
	Address	String	(IP address)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-

Example

```
{
  "Request": {
    "Command": "SetNTPServer",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Address": "192.168.0.100"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetNTPServer	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-	-	-

Example

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

### 3.2.8. Set NTP Settings

Set the NTP settings.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetNTPSettings	-	✓	✓	✓	✓	✓	-	✓	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	-	✓	-	-	✓	✓	✓
	Params															
	TcSync	String	"On"/"Off"	-	✓	✓	✓	✓	✓	-	✓	-	-	-	-	-
	TimeSync	Integer	0:OFF, 1:ON (For PZ400/200, other Params is valid when this parameter is ON.)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	TimeZone	String	(Time Zone) "GMT-1100" - "GMT+1300"	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	ServerAddress	String	(IP address)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	TimeInterval	Integer	Value of Time interval(min)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	MainTimeShow															
	Status	Integer	0:OFF, 1:ON	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	XPosition	Integer	Value of X Position. (0 - 100)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	YPosition	Integer	Value of Y Position. (0 - 100)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	SubTimeShow															
	Status	Integer	0:OFF, 1:ON	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	XPosition	Integer	Value of X Position. (0 - 100)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	YPosition	Integer	Value of Y Position. (0 - 100)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓

Example

```
{
  "Request": {
    "Command": "SetNTPSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TcSync": "On"
    }
  }
}
```

Example(In case of PZ400/200/510)

```
{
  "Request": {
    "Command": "SetNTPSettings",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TimeSync": 1,
      "TimeZone": "GMT+0900",
      "ServerAddress": "192.168.123.123",
      "TimeInterval": 1440,
      "MainTimeShow": {
        "Status": 1,
        "XPosition": 0,
        "YPosition": 0
      },
      "SubTimeShow": {
        "Status": 0,
        "XPosition": 0,
        "YPosition": 0
      }
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	SetNTPSettings	-	✓	✓	✓	✓	✓	-	✓	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	-	✓	-	-	✓	✓	✓

Example

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

### 3.2.9. Get NTP Settings

---

Get NTP Settings.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request			-	-	-	-	-	-	-	-	-	-	-	-	
	Command	String	GetNTPSettings	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response			-	-	-	-	-	-	-	-	-	-	-	-	
	Requested	String	GetNTPSettings	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Data			-	-	-	-	-	-	-	-	-	-	-	-	
	TimeSync	Integer	0:OFF, 1:ON	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	TimeZone	String	(Time Zone) "GMT-1100" - "GMT+1300"	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	ServerAddress	String	(IP address)	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	TimeInterval	Integer	Value of Time interval(min)	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	MainTimeShow			-	-	-	-	-	-	-	-	-	-	-	-	
	Status	Integer	0:OFF, 1:ON	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	XPosition	Integer	Value of X Position.	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	YPosition	Integer	Value of Y Position.	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	SubTimeShow			-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Status	Integer	0:OFF, 1:ON	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	XPosition	Integer	Value of X Position.	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	YPosition	Integer	Value of Y Position.	-	-	-	-	-	-	-	-	-	✓	✓	✓	

Example

```
{  
  "Response": {  
    "Requested": "GetNTPSettings",  
    "Result": "Success",  
    "Data": {  
      "TimeSync": 1,  
      "TimeZone": "GMT+0900",  
      "ServerAddress": "192.168.0.100",  
      "TimeInterval": 1440,  
      "MainTimeShow": {  
        "Status": 1,  
        "XPosition": 0,  
        "YPosition": 0  
      },  
      "SubTimeShow": {  
        "Status": "Off",  
        "XPosition": 0,  
        "YPosition": 0  
      }  
    }  
  }  
}
```

### 3.2.10. SystemRequest

---

Send the Request to the System.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SystemRequest	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Params															
	Request	String	"Reboot" / "Restore"	-	-	-	-	-	-	-	-	-	✓	✓	✓	

Example

```
{
  "Request": {
    "Command": "SystemRequest",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Request": "Reboot"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SystemRequest	-	-	-	-	-	-	-	-	-	✓	✓	✓	
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	✓	✓	✓	

Example

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

### 3.3. Camera Control Command

#### 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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
Request																
	Command	String	GetCamStatus	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	GetCamStatus	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Data			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Camera		(Camera)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Status	String	Status "NoCard"(no card inserted) / "Stop"(recording stop) / PZ400/200 always return "NoCard". "Standby"(record standby) / "Rec"(recording)/ "RecPause"(recording pause)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Mode	String	Mode "Camera"(record mode) / "Thumbnail"(display thumbnail) / "Play"(play clip) / "Review"(review clip) / "USB"(connect USB) / "EditMetadata"(edit metadata)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
	RecMode	String	Rec mode "Normal" / "Pre" / "Clip" / "Frame" / "Interval" / "Variable"	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-	-
	TC	String	recording time(sec)(32bit length)	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-	-
	AspectRatio	String	Aspect ratio "16:9" / "4:3"	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-	-
	WebAccess	String	Web access "Off" / "On"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VideoOutputStatus	String	Video output status of camera "Off" / "On"	-	-	-	-	-	-	✓	-	✓	✓	✓	✓	✓
	MenuStatus	String	Menu Open status of camera "Off" / "On"	-	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
	MenuOutput	String	"All" / "Web"	-	-	-	-	-	-	✓	-	-	-	-	-	-

FullAuto			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Status	String	Status "Off" / "On" / "Preset"	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Exposure			- - - - - - - ✓ - - ✓ ✓ ✓
Status	String	Exposure "Auto" / "Manual" / "IrisPriority" / "ShutterPriority" "Bright"	- - - - - - - ✓ - - ✓ ✓ ✓
Iris			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Status	String	Mode "Manual" / "Auto" / "AutoAELock" "Auto" / "Manual"	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Value	String	Character string for iris value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Position	Integer	Iris position (0-255, for Slider button position)	- - - - - - - ✓ ✓ - - -
Gain			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Status	String	Mode "ManualL" / "ManualM" / "ManualH" / "Aic" or "AGC"(HC5x0) / "AicAELock" / "Lolux" / "Variable" "Auto" / "Manual"	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - - -
Value	String	Character string for gain value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
AeLevel			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -
Status	String	Mode "AeOff" / "AeOn" / "AeOnFace"	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Adjust	String	AE Level adjustment "On" / "Off"	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Value	String	Character string for AE level value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -
Shutter			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Status	String	Mode "Off" / "Manual" / "Step" / "Variable" / "Eei" / "EeiAELock" "Auto" / "Manual"	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - - -
Value	String	Character string for Shutter value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Whb			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Status	String	Mode "Preset"/"A"/"B"/"Faw"/"FawAELock" "Faw" / "Awb" / "OnePush" / "3200K" / "5600K" / "Manual" "Auto" / "Indoor" / "Outdoor" / "OnePush" / "Manual"	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - - -
Value	String	Character string for White Balance value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
WhPRScale	Integer	Slide bar total length for White paint Red(0-64). (*)	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
		Slide bar total length for White paint Red(0-255). (*)	- - - - - - - ✓ - - -
WhPBScale	Integer	Slide bar total length for White paint Blue(0-64). (*)	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
		Slide bar total length for White paint Blue(0-255). (*)	- - - - - - - ✓ - - -
WhPRPosition	Integer	Slide bar current position for White paint Red(0-64). (*)	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - - -
		Slide bar current position for White paint Red(0-255). (*)	- - - - - - - ✓ - - -
WhPBPosition	Integer	Slide bar current position for White paint Blue(0-64). (*)	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - - -
		Slide bar current position for White paint Blue(0-255). (*)	- - - - - - - ✓ - - -
WhPRValue	String	Character string for White paint Red value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
WhPBValue	String	Character string for White paint Blue value	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Bright			- - - - - - - ✓ - - -
Value	String	Character string for Bright value	- - - - - - - ✓ - - -
Zoom			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Dynamic	String	Dynamic Zoom Status "On" / "Off"	- - - ✓ ✓ ✓ - - - - - -
DynamicPos	Integer	Dynamic Zoom Position(0-499)	- - - ✓ ✓ ✓ - - - - - -
Position	Integer	Zoom position (0-499, for Slider button position)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
DisplayValue	String	Character string for Zoom value "Z0 – Z149" (GY-HM200/HM25x/HM280/LS300 F-number "0 - 9999mm")	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
PanTilt			- - - - - - - ✓ - - -
SpeedWithZoom	String	Speed With Zoom Status "On" / "Off"	- - - - - - - ✓ - - -
PresetSpeed	Integer	Pan/Tilt/Preset speed (1-30)	- - - - - - - ✓ - - -

Focus														
	Status	String	Mode "AFFace" / "AF" / "MFOnePush" / "MF" / "MFFace"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"Auto" / "Manual"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Value	String	Character string for Focus value		—	—	—	—	—	✓	—	✓	✓	✓
MasterBlack					—	✓	✓	✓	✓	✓	—	✓	✓	—
	Value	String	Character string for MasterBlack value		—	✓	✓	✓	✓	✓	—	✓	✓	—
Detail					—	✓	✓	✓	✓	✓	—	✓	✓	—
	Value	String	Character string for Detail value		—	✓	✓	✓	✓	✓	—	✓	✓	—
Streaming						✓	✓	✓	✓	✓	✓	✓	✓	✓
	Status	String	Status "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)) / "Error" (Error occurred or waiting to start RTSP/RTP streaming and SRT Listener mode)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ReturnOverIP						—	—	—	—	—	—	✓	✓	—
	Status	String	Status "Stop"(Return over IP has stopped or cannot be started.) / "Stopping"(About to stop.) / "Start"(Return over IP has started.) / "Starting"(About to start.) / "Error"		—	—	—	—	—	—	✓	✓	—	
Disptv						✓	✓	✓	✓	✓	✓	✓	✓	—
	Status	String	Status "On" / "Off"		✓	✓	—	✓	✓	✓	—	✓	✓	—
CharacterMix						—	✓	—	—	—	—	✓	✓	—
	Sdi	String	Mix "On" / "Off"		—	✓	—	—	—	—	✓	✓	—	
	Hdmi	String	Mix "On" / "Off"		—	✓	—	—	—	—	✓	✓	—	
	Video	String	Mix "On" / "Off"		—	✓	—	—	—	—	✓	✓	—	
TallyLamp						✓	✓	✓	✓	✓	✓	✓	✓	✓
	Priority	String	Priority "Camera" / "Web"		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Lighting	String	Lighting "On" / "Off"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	StudioTally	String	Status "Off" / "Program" / "Preview"		—	✓	✓	✓	✓	✓	—	✓	✓	✓
SlotA			(Status of SlotA)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Status	String	Status "Select" / "NoSelect" / "NoCard" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown"		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Protect	String	Status "Unlock" / "Lock"		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Remain	String	Remaining amount time(minutes) (0-65535)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	ClipNum	Integer	Number of clips(0-4000)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	RemainWarning	Integer	Remaining amount warning(0=No warning/1=Warning)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
SlotB			(Status of SlotB)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Status	String	Status "Select" / "NoSelect" / "NoCard" / "SelectRec" / "NoSelectRec" / "Invalid" / "Unknown"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Protect	String	Status "Unlock" / "Lock"		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	Remain	String	Remaining amount time(minutes) (0-65535)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	ClipNum	Integer	Number of clips(0-4000)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—
	RemainWarning	Integer	Remaining amount warning(0=No warning/1=Warning)		✓	✓	✓	✓	✓	✓	✓	✓	✓	—



		(Exposure function)	- - - - - - - - ✓ - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - -
	Auto	Integer button "Auto" switch of fullauto 0:Disable, 1:Enable	- - - - - - - - ✓ - - ✓ ✓ ✓
	Manual	Integer button "Manual" switch of fullauto 0:Disable, 1:Enable	- - - - - - - - ✓ - - ✓ ✓ ✓
	ShutterPriority	Integer button ShutterPriority" switch of fullauto 0:Disable, 1:Enable	- - - - - - - - ✓ - - ✓ ✓ ✓
	IrisPriority	Integer button "IrisPriority" switch of fullauto 0:Disable, 1:Enable	- - - - - - - - ✓ - - ✓ ✓ ✓
	Bright	Integer button "Bright" switch of exposure 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
Iris		(Iris function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - ✓ ✓ ✓ ✓ ✓ - ✓ - -
	StatusDisp	Integer Display Value of iris 0:Disable, 1:Enable	- - - ✓ ✓ ✓ ✓ - ✓ ✓ - -
	Manual	Integer button "MANUAL" switch of iris 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Auto	Integer button "AUTO" switch of iris 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Open1	Integer button ">" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Open2	Integer button ">>" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	Open3	Integer button ">>>" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	Close1	Integer button "<" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	Close2	Integer button "<<" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	Close3	Integer button "<<<" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	PushAuto	Integer button "Push Auto" switch of iris 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ - - ✓ - -
Gain		(Gain function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - ✓ ✓ ✓ ✓ ✓ - ✓ - -
	StatusDisp	Integer Display Value of gain 0:Disable, 1:Enable	- - - ✓ ✓ ✓ ✓ - ✓ ✓ - -
	Manual	Integer button "MANUAL" switch of gain 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ - - - - - ✓ - - ✓ ✓
	Auto	Integer button "AUTO" switch of gain 0:Disable, 1:Enable PZ400/200 always return 0.	- - - - - - - ✓ - - ✓ ✓
	Lolux	Integer button "LOLUX" switch of gain 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	Variable	Integer button "Variable" switch of gain 0:Disable, 1:Enable	- - - - - - - ✓ - - ✓ ✓ - -
	L	Integer button "L" switch of gain 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	M	Integer button "M" switch of gain 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	H	Integer button "H" switch of gain 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - -
	Up1	Integer button "Up1" switch of gain 0:Disable, 1:Enable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Up2	Integer button "Up2" switch of gain 0:Disable, 1:Enable	- - - - - - - ✓ - - ✓ - -
	Down1	Integer button "Down1" switch of gain 0:Disable, 1:Enable	- ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Down2	Integer button "Down2" switch of gain 0:Disable, 1:Enable	- - - - - - - ✓ - - ✓ - -
AeLevel		(AE Level function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - ✓ ✓ ✓ ✓ ✓ - ✓ - -
	StatusDisp	Integer Display Value of AElevel 0:Disable, 1:Enable	- - - ✓ ✓ ✓ ✓ - ✓ ✓ - -
	Up	Integer button "▲" switch of AElevel 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Down	Integer button "▼" switch of AElevel 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	AdjustOn	Integer button "ON" switch of AElevel 0:Disable, 1:Enable	- - - ✓ ✓ ✓ ✓ - ✓ ✓ - -
	AdjustOff	Integer button "OFF" switch of AElevel 0:Disable, 1:Enable	- - - ✓ ✓ ✓ ✓ - ✓ ✓ - -

		(Shutter function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Shutter	Enable	Integer switch 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ — —
	StatusDisp	Integer Display Value of Shutter 0:Disable, 1:Enable	— — — ✓ ✓ ✓ ✓ — ✓ ✓ — —
	Off	Integer button "OFF" switch of shutter 0:Disable, 1:Enable	✓ ✓ ✓ — — — — — — —
	Manual	Integer button "MANUAL" switch of shutter 0:Disable, 1:Enable	✓ ✓ — — — — — — — —
	Step	Integer button "STEP" switch of shutter 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ ✓ — ✓ ✓ — —
	Variable	Integer button "VARIABLE" switch of shutter 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ ✓ — ✓ ✓ — —
	Eei	Integer button "EEI" switch of shutter 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ — —
	Slower	Integer button "▲" switch of shutter 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
	Faster	Integer button "▼" switch of shutter 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
Whb		(White balance function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ — ✓ — — —
	StatusDisp	Integer Display Value of White balance 0:Disable, 1:Enable	— — — ✓ ✓ ✓ — ✓ — — —
	Auto	Integer button "Auto" switch of White balance 0:Disable, 1:Enable	— — — — — — — — — ✓ ✓ ✓
	Indoor	Integer button "Indoor" switch of White balance 0:Disable, 1:Enable	— — — — — — — — — ✓ ✓ ✓
	Outdoor	Integer button "Outdoor" switch of White balance 0:Disable, 1:Enable	— — — — — — — — — ✓ ✓ ✓
	OnePush	Integer button "OnePush" switch of White balance 0:Disable, 1:Enable	— — — — — — — — — ✓ ✓ ✓
	Manual	Integer button "MANUAL" switch of White balance 0:Disable, 1:Enable	✓ ✓ — — — — — ✓ — — ✓ ✓
	Faw	Integer button "FAW" switch of White balance 0:Disable, 1:Enable	✓ ✓ — — — — — ✓ — — — —
	Preset	Integer button "PRESET" switch of White balance 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ — — —
	A	Integer button "A" switch of White balance 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ — — ✓ —
	B	Integer button "B" switch of White balance 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ — — ✓ —
	Awb	Integer button "AWB" switch of White balance 0:Disable, 1:Enable	— — — — — — — — — — —
	PushAuto	Integer button "OnePushTrigger" switch of White balance 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
	K3200	Integer button "3200K" switch of White balance 0:Disable, 1:Enable	— — — — — — — — ✓ — — —
	K5600	Integer button "5600K" switch of White balance 0:Disable, 1:Enable	— — — — — — — — ✓ — — —
	WhPaintRP	Integer button "↑" switch of White paint 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
	WhPaintRM	Integer button "↓" switch of White paint 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
	WhPaintBP	Integer button "→" switch of White paint 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
	WhPaintBM	Integer button "←" switch of White paint 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ — ✓ ✓ ✓ ✓ ✓
Bright		(Bright function)	— — — — — — — — — — ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	— — — — — — — — — — —
	StatusDisp	Integer Display Value of Bright 0:Disable, 1:Enable	— — — — — — — — — — —
	Up	Integer button ">" switch of Bright 0:Disable, 1:Enable	— — — — — — — — — — ✓ ✓ ✓
	Down	Integer button "<" switch of Bright 0:Disable, 1:Enable	— — — — — — — — — — ✓ ✓ ✓

		(Zoom function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Zoom	Enable	Integer switch 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ ✓ ✓ — ✓ —
	StatusDisp	Integer Display Value of Zoom 0:Disable, 1:Enable	— — — ✓ ✓ ✓ — ✓ —
	Tele1	Integer button ">" switch of zoom 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Tele2	Integer button ">>" switch of zoom 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Tele3	Integer button ">>>" switch of zoom 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Wide1	Integer button "<" switch of zoom 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Wide2	Integer button "<<" switch of zoom 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Wide3	Integer button "<<<" switch of zoom 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Tele	Integer button "Tele" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ — ✓ —
	Wide	Integer button "Wide" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ — ✓ —
	Preset	Integer button "Preset" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ ✓ — ✓ —
	Clear	Integer button "Clear" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ — ✓ —
	Preset1	Integer button "A" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ — ✓ —
	Preset2	Integer button "B" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ — ✓ —
	Preset3	Integer button "C" switch of zoom 0:Disable, 1:Enable	— — ✓ ✓ ✓ — ✓ —
Focus		(Focus function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	— — ✓ ✓ ✓ — ✓ —
	StatusDisp	Integer Display Value of Focus 0:Disable, 1:Enable	— — — ✓ ✓ — ✓ —
	Manual	Integer button "MANUAL" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Auto	Integer button "AUTO" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Far1	Integer button ">" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Far2	Integer button ">>" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Far3	Integer button ">>>" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Near1	Integer button "<" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Near2	Integer button "<<" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Near3	Integer button "<<<" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Infinity	Integer button "∞" switch of focus 0:Disable, 1:Enable	✓ — — — — — — —
	PushAuto	Integer button "PUSH AUTO" switch of focus 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
MasterBlack		(MasterBlack function)	— ✓ ✓ ✓ ✓ — ✓ —
	Enable	Integer switch 0:Disable, 1:Enable	— — — — — — ✓ —
	StatusDisp	Integer Display Value of MasterBlack 0:Disable, 1:Enable	— — — — — — ✓ —
	Up1	Integer button ">" switch of MasterBlack 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
	Up2	Integer button ">>" switch of MasterBlack 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
	Up3	Integer button ">>>" switch of MasterBlack 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
	Down1	Integer button "<" switch of MasterBlack 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
	Down2	Integer button "<<" switch of MasterBlack 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
	Down3	Integer button "<<<" switch of MasterBlack 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
Detail		(Detail function)	— ✓ ✓ ✓ ✓ — ✓ —
	Enable	Integer switch 0:Disable, 1:Enable	— — — — — — — —
	StatusDisp	Integer Display Value of Detail 0:Disable, 1:Enable	— — — — — — — —
	Up	Integer button ">" switch of Detail 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —
	Down	Integer button "<" switch of Detail 0:Disable, 1:Enable	— ✓ ✓ ✓ ✓ — ✓ —

		(switch of user assignment)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -
User	Integer	button "SW0" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - ✓ - - - -
Sw0	Integer	button "SW1" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ - - -
Sw1	Integer	button "SW2" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw2	Integer	button "SW3" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw3	Integer	button "SW4" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw4	Integer	button "SW5" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw5	Integer	button "SW6" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw6	Integer	button "SW7" switch of User Switch 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw7	Integer	button "SW8" switch of User Switch 0:Disable, 1:Enable	- - ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw8	Integer	button "SW9" switch of User Switch 0:Disable, 1:Enable	- - ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - - -
Sw9	Integer	button "SW10" switch of User Switch 0:Disable, 1:Enable	- - ✓ - - - ✓ - - ✓ - - -
Sw10	Integer	button "SW11" switch of User Switch 0:Disable, 1:Enable	- - ✓ - - - - - - ✓ - - -
Sw11	Integer	button "SW12" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - ✓ - - -
Sw12	Integer	button "SW13" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - - - ✓ - - -
LensRet	Integer	button "LensRet" switch of User Switch 0:Disable, 1:Enable	- - ✓ - - - - - - ✓ - - -
Sub1	Integer	button "Sub1" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - ✓ - - -
Sub2	Integer	button "Sub2" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - - ✓ - - -
Sub3	Integer	button "Sub3" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - - - ✓ - - -
VfSw1	Integer	button "VfSW1" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - - ✓ - - -
VfSw2	Integer	button "VfSW2" switch of User Switch 0:Disable, 1:Enable	- - - - - - - - - - - ✓ - - -
Streaming		(Streaming function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Enable	Integer	switch 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ - - -
StatusDisp	Integer	Display Value of Streaming 0:Disable, 1:Enable	- - - - - - - - - - - ✓ ✓ - - -
On	Integer	button "ON" switch of Streaming 0:Disable, 1:Enable	✓ ✓ ✓ - - - - - ✓ ✓ ✓ ✓ ✓ ✓
Off	Integer	button "OFF" switch of Streaming 0:Disable, 1:Enable	✓ ✓ ✓ - - - - - ✓ ✓ ✓ ✓ ✓ ✓
Disptv		(Display function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - - -
On	Integer	button "ON" switch of Display 0:Disable, 1:Enable	✓ ✓ - ✓ ✓ ✓ ✓ - - ✓ - - -
Off	Integer	button "OFF" switch of Display 0:Disable, 1:Enable	✓ ✓ - ✓ ✓ ✓ ✓ - - ✓ - - -

		(Character mix function)	- - ✓ - - - - ✓ ✓ - - -
	Sdi	Integer button "SDI" switch of CharacterMix 0:Disable, 1:Enable	- - ✓ - - - - ✓ ✓ - - -
	Hdmi	Integer button "HDMI" switch of CharacterMix 0:Disable, 1:Enable	- - ✓ - - - - ✓ ✓ - - -
	Video	Integer button "Video" switch of CharacterMix 0:Disable, 1:Enable	- - ✓ - - - - ✓ ✓ - - -
	Menu	(Menu function)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Display	Integer button "DYSPLAY" switch of Menu 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Status	Integer button "STATUS" switch of Menu 0:Disable, 1:Enable PZ400/200 always return 0.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Menu	Integer button "MENU" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Set	Integer button "SET" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Cancel	Integer button "CANCEL" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Up	Integer button "↑" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Down	Integer button "↓" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Left	Integer button "←" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Right	Integer button "→" switch of Menu 0:Disable, 1:Enable	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
	Luminance	(Luminance function)	- - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Luminance 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Luminance 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓
	Down	Integer button "<" switch of Luminance 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Saturation	(Saturation function)	- - - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Saturation 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Saturation 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Down	Integer button "<" switch of Saturation 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Contrast	(Contrast function)	- - - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Contrast 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Contrast 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Down	Integer button "<" switch of Contrast 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Sharpness	(Sharpness function)	- - - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Sharpness 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Sharpness 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Down	Integer button "<" switch of Sharpness 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Hue	(Hue function)	- - - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Hue 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Hue 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Down	Integer button "<" switch of Hue 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Flip	(Flip function)	- - - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Flip 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Flip 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Down	Integer button "<" switch of Flip 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Mirror	(Mirror function)	- - - - - - - - - - ✓ ✓ ✓
	Enable	Integer switch 0:Disable, 1:Enable	- - - - - - - - - - -
	StatusDisp	Integer Display Value of Mirror 0:Disable, 1:Enable	- - - - - - - - - - -
	Up	Integer button ">" switch of Mirror 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓
	Down	Integer button "<" switch of Mirror 0:Disable, 1:Enable	- - - - - - - - - - ✓ ✓ ✓

		Tracking	(Auto tracking function)	- - - - - - - - - - - - - - - ✓
		On	Integer button "On" switch of auto tracking 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		Off	Integer button "Off" switch of auto tracking 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		TrackingMode	(Auto tracking mode function)	- - - - - - - - - - - - - - - ✓
		Standard	Integer button "Standard" switch of auto tracking mode 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		Area	Integer button "Area" switch of auto tracking mode 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		Stage	Integer button "Stage" switch of auto tracking mode 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		WideArea	Integer button "WideArea" switch of auto tracking mode 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		FineAdjustment	Integer button "FineAdjustment" switch of auto tracking mode 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		TrackingBoundingBox	(Auto tracking bounding box function)	- - - - - - - - - - - - - - - ✓
		Auto	Integer button "Auto" switch of auto tracking bounding box 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		Off	Integer button "Off" switch of auto tracking bounding box 0:Disable, 1:Enable	- - - - - - - - - - - - - - - ✓
		ButtonString	(String of button name)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Gain	(Button of gain)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		L	String String of Low gain button	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		M	String String of Middle gain button	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		H	String String of High gain button	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		User	(Button of user switch allocation)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw0	String String of User switch 0 "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" / "AWB" / "Rec" / "Return Video"	- - - - - - - - - - - - - - - -
		Sw1	String String of User switch 2. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw2	String String of User switch 2. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw3	String String of User switch 3. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw4	String String of User switch 4. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw5	String String of User switch 5. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw6	String String of User switch 6. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw7	String String of User switch 7. Same as above.	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw8	String String of User switch 8. Same as above.	- - ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw9	String String of User switch 9. Same as above.	- - ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Sw10	String String of User switch 10. Same as above.	- - ✓ - - - - ✓ - ✓ ✓ - -
		Sw11	String String of User switch 11. Same as above.	- - ✓ - - - - - - ✓ - -
		Sw12	String String of User switch 12. Same as above.	- - - - - - - - - - ✓ - -
		Sw13	String String of User switch 13. Same as above.	- - - - - - - - - - - -
		LensRet	String String of User switch Lens Ret. Same as above.	- - ✓ - - - - - - - -
		VfSw1	String String of User Viewfinder switch1 Same as above.	- - - - - - - - - - ✓ - -
		VfSw2	String String of User Viewfinder switch2 Same as above.	- - - - - - - - - - ✓ - -
		Whb	(Button of White balance)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ - -
		Preset	String String of Preset button "PRESET" / "A" / "B" / "FAW"	- - ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - -
		A	String String of A button "PRESET" / "A" / "B" / "FAW"	- - ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - -
		B	String String of B button "PRESET" / "A" / "B" / "FAW"	- - ✓ ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ - -

\* 0-64 can be used for AWB mode and 0-255 for manual white balance mode on KY-PZ100.

### Example

```
{  
  "Response": {  
    "Requested": "GetCamStatus",  
    "Result": "Success",  
    "Data": {  
      "Camera": {  
        "Status": "Standby", "Mode": "Camera", "RecMode": "Normal",  
        "TC": "#####", "AspectRatio": "16:9", "WebAccess": "On"  
      },  
      "Fullauto": {  
        "Status": "Auto"  
      },  
      "Iris": {  
        "Status": "Auto", "Value": "0"  
      },  
      "Gain": {  
        "Status": "Aic", "Value": "0"  
      },  
      "AeLevel": {  
        "Status": "AeOn", "Adjust": "On", "Value": "0"  
      },  
      "Shutter": {  
        "Status": "Eei", "Value": "0"  
      },  
      "Whb": {  
        "Status": "Faw", "Value": "0",  
        "WhPRScale": 0, "WhPBScale": 0,  
        "WhPRPosition": 100, "WhPBPosition": 100,  
        "WhPRValue": 100, "WhPBValue": 100  
      },  
      "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, "Close2": 1, "Close3": 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, "Eel": 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, "Sel": 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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetCamCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	Params															
	CamCtrl	String	Camera Control "Rec": recording start / "Stop": recording stop	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetCamCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

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

---

Control zoom position

In operation, obey preset zoom speed settings of camera,

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

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ10	
	Request																
	Command	String	SetZoomCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params																
	Position	Integer	Zoom position "0"~"499"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ10	
	Response																
	Requested	String	SetZoomCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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	HM25x	HM280	L300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStreamingCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params															
	Streaming	String	Streaming Control "On":streaming start / "Off":streaming stop	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	L300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStreamingCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Request																
	Command	String	SetTallyLampCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params																
	Sw	String	Tally lamp Control "On"(The order turns on LED) / "Off"(The order turns off LED) /	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Response																
	Requested	String	SetTallyLampCtrl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.3.6. Set Web Button Event

---

Issue a button event

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Request																
	Command	String	SetWebButtonEvent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params		(Button parameter is selected by Kind parameter)														
Kind	Kind	String	Kind of button event														
	"Fullauto"			✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—	—	—
	"Iris"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"Gain"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"AeLevel"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	"Shutter"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"Whb"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"Zoom"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"Focus"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"User"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	"Disptv"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	"Menu"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	"Rec"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	"MasterBlack"			—	✓	✓	✓	✓	✓	—	—	✓	✓	—	—	—	—
	"Detail"			—	✓	✓	✓	✓	✓	—	✓	✓	✓	✓	—	—	—
	"Exposure"			—	—	—	—	—	—	✓	—	✓	—	✓	✓	✓	✓
	"SpeedWithZoom"			—	—	—	—	—	—	✓	—	✓	—	✓	✓	✓	✓
	"Bright"			—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
	"Luminance"			—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	"Saturation"			—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	"Contrast"			—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	"Sharpness"			—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	"Hue"			—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	"Flip"			—	—	—	—	—	—	—	—	—	—	✓	✓	✓	✓
	"Mirror"			—	—	—	—	—	—	—	—	—	✓	✓	✓	✓	✓
Button	Button	String	Fullauto event														
			"On" / "Off"	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—	—	—
			"Preset"	—	—	—	—	—	—	✓	—	—	—	—	—	—	—
			Exposure event														
			"Auto" / "Manual" / "IrisPriority" (AAE on PZ400/200/510) / "ShutterPriority" (SAE on PZ400/200/510) / "Bright" (only PZ400/200/510)	—	—	—	—	—	—	—	✓	—	✓	—	✓	✓	✓
			Iris event														
			"Manual" / "Auto"	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—	—
			"Open1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"Open2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—
			"Open3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—
			"Close1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			"Close2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—
			"Close3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—
			"PushAuto"	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—	—
			Gain event														
			"Alc"	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—
			"Lolux"	✓	✓	✓	✓	✓	✓	✓	✓	—	✓	✓	—	—	—

"L" / "M" / "H"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Variable"	-	-	-	-	-	-	✓	-	-	-	-	-	-
"Up1"	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Up2"	-	-	-	-	-	-	✓	-	-	-	-	-	-
"Down1"	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Down2"	-	-	-	-	-	-	✓	-	-	-	-	-	-
"Manual" / "Auto"	-	-	-	-	-	-	-	-	-	-	-	-	-
AeLevel event													
"AeLevelUp" / "AeLevelDown"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"AdjustOn" / "AdjustOff"	-	-	-	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Up" / "Down"	-	-	-	-	-	-	-	✓	-	-	-	-	-
Shutter event													
"Off"	✓	✓	✓	-	-	-	-	-	-	-	-	-	-
"Step"	-	-	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Variable"	-	-	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Manual"	✓	✓	-	-	-	-	-	-	-	-	-	-	-
"Eel"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Slower"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Faster"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whb event													
"Faw"	✓	✓	-	-	-	-	-	✓	-	-	-	-	-
"Preset" / "A" / "B"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Adjust" (Awb trigger when PZ100, OnePush trigger when PZ400/200/510)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"WhPaintRP" / "WhPaintRM"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
"WhPaintBP" / "WhPaintBM"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
"Awb"	-	-	-	-	-	-	-	✓	-	-	-	-	-
"3200K"	-	-	-	-	-	-	-	✓	-	-	-	-	-
"5600K"	-	-	-	-	-	-	-	✓	-	-	-	-	-
"Manual"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
"Auto"	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
"Indoor"	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
"Outdoor"	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
"OnePush"	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
Zoom event													
"Tele1" / "Tele2" / "Tele3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Wide1" / "Wide2" / "Wide3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Stop"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
※ "Tele" or "Wide" events need "Stop" in KY-PZ100 / PZ400 / PZ200 / PZ510.													
Focus event													
"Manual" / "Auto"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
"Far1" / "Far2" / "Far3" / "Near1" / "Near2" / "Near3"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Infinity"	✓	✓	-	-	-	-	-	-	-	-	-	-	-
"PushAuto"	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
"Stop"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
※ "Far" or "Near" events need "Stop" in KY-PZ100 / PZ400 / PZ200 / PZ510.													
MasterBlack event													
"Up1" / "Up2" / "Up3" / "Down1" / "Down2" / "Down3"	-	✓	✓	✓	✓	✓	✓	-	-	✓	✓	-	-
User event													
"Sw0"	-	-	✓	-	-	-	-	-	-	✓	-	-	-
"Sw1" / "Sw2" / "Sw3" / "Sw4" / "Sw5" / "Sw6" / "Sw7"	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Sw8"	-	-	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-
"Sw9"	-	-	✓	✓	✓	✓	✓	✓	-	-	✓	-	-
"Sw10"	-	-	✓	-	-	-	-	✓	-	-	✓	-	-
"Sw11"	-	-	✓	-	-	-	-	-	✓	-	-	-	-

"Sw12" / "Sw13"	-	-	-	-	-	-	-	-	✓	-	-
"LensRet"	-	-	✓	-	-	-	-	-	✓	-	-
"Sub1" / "Sub2" / "Sub3"	-	-	-	-	-	-	-	✓	-	-	-
"VfSw1" / "VfSw2"	-	-	-	-	-	-	-	✓	-	-	-
DispTV event											
"On":(Display on TV) / "Off":(Display on TV)	✓	✓	-	✓	✓	✓	✓	-	-	-	-
"Sdi":(Character Mix)	-	-	✓	-	-	-	-	-	✓	✓	-
"Hdmi":(Character Mix)	-	-	✓	-	-	-	-	-	✓	✓	-
"Video":(Character Mix)	-	-	✓	-	-	-	-	-	✓	✓	-
Menu event											
"Display":(Menu) / "Status":(Menu) /	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
"Menu":(Menu) / "Cancel":(Menu) / "Set":(Menu) /	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Up":(Menu) / "Down":(Menu) / "Left":(Menu) / "Right":(Menu)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
※ "Up", "Down", "Left", and "Right" events call assigned function when menu is closed.	-	-	-	-	-	-	-	✓	-	-	-
Rec event											
"Start":Recording start / "Stop":Recording stop	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
Detail event "Up" / "Down"	-	✓	✓	✓	✓	✓	-	✓	✓	✓	-
SpeedWithZoom event "Off" / "On"	-	-	-	-	-	-	✓	-	-	✓	✓
Bright event											
"Up" / "Down"	-	-	-	-	-	-	-	-	-	✓	✓
Luminance event											
"Up" / "Down"	-	-	-	-	-	-	-	-	✓	✓	✓
Saturation event											
"Up" / "Down"	-	-	-	-	-	-	-	-	✓	✓	✓
Contrast event											
"Up" / "Down"	-	-	-	-	-	-	-	-	✓	✓	✓
Sharpness event											
"Up" / "Down"	-	-	-	-	-	-	-	-	✓	✓	✓
Hue event											
"Up" / "Down"	-	-	-	-	-	-	-	-	✓	✓	✓
Flip event											
"On" / "Off"	-	-	-	-	-	-	-	-	✓	✓	✓
Mirror event											
"On" / "Off"	-	-	-	-	-	-	-	-	✓	✓	✓

## Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	SetWebButtonEvent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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 maximum speed of zoom.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510	
	Request																
	Command	String	SetWebSliderEvent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params																
	Kind	String	Kind of Slider event "ZoomBar" "IrisBar"														
	Position	Integer	Slider event ZoomBar 0~499:Zoom position IrisBar 0~255:Iris position	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510	
	Response																
	Requested	String	SetWebSliderEvent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.3.8. Set Web XYField Event

Issue a two-dimensional slider event

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Request																
	Command	String	SetWebXYFieldEvent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Params																
	Kind	String	Kind of XYField event "WhPaintRB":White paint R and B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	XPosition	Integer	XYField event WhPaintRB "0"~"64" (White paint B position) (PZ400/200/510: Max value of Whb Auto is 20, Whb manual is 255)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	YPosition	Integer	XYField event WhPaintRB "0"~"64" (White paint R position) (PZ400/200/510: Max value of Whb Auto is 20, Whb manual is 255)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510	
	Response																
	Requested	String	SetWebXYFieldEvent	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.3.9. Get GPS Information

Request location information of camera GPS function.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetGPSInfo	✓	✓	✓	—	—	—	—	✓	✓	—	—	—	—
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	—	—	—	—	✓	✓	—	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetGPSInfo	✓	✓	✓	—	—	—	—	✓	✓	—	—	—	—
	Result	String	(Result of command processing.)	✓	✓	✓	—	—	—	—	✓	✓	—	—	—	—
	Data															
	AntennaLevel	String	"None" / "Lost" / "Searching" / "Level1" / "Level2" / "Level3"	✓	✓	✓	—	—	—	—	✓	✓	—	—	—	—
	Location	String	+/-<Latitude>+/-<Longitude>+/-<Altitude>/" Latitude +:North, -:South, 00.00000(min) - 90.00000(max) Longitude +:East, -:West, 000.00000(min) - 179.99999(max) Altitude +, -, 0.00000(min) - 9999999(max)	✓	✓	✓	—	—	—	—	✓	✓	—	—	—	—

\*Location data is valid only if AntennaLevel is "Level1", "Level2", or "Level3".

Example

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

### 3.3.10. Seesaw switch operation

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

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SeesawSwitchOperation	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-
	Params															
	Kind	String	Kind of Seesaw event "ZoomSeesaw" / "IrisSeesaw" / "MasterBlackSeesaw" / "FocusSeesaw"	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-
	Direction	String	Zoom operation "Stop" / "Wide" / "Tele" Iris operation "Open" / "Close" / "Stop" MasterBlack operation "Up" / "Down" / "Stop" Focus operation "Far" / "Near" / "Stop"	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-
	Speed	Integer	0 - 8	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-

\*\*"Speed = 0" has the same meaning as "Direction = Stop".

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SeesawSwitchOperation	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	-	-	✓	✓	-	-	-

Example

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

## 3.4. PTZ Camera Support Command

### 3.4.1. Set Pan Tilt Control

Pan / Tilt control command with direct position parameters.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetPTCtrl	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓
	Params															
	PanDirection	String	"Stop" / "Left" / "Right" / "Home" / "Position"	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓
	PanPosition	Integer / String	0/"0"(Back left limit) - 17540/"17540"(Front) - 35080/"35080"(Back right limit) PanPosition is valid when "PanDirection" is "Position".	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓
	PanSpeed	Integer / String	0 - 30/"0"~"30"	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓
	TiltDirection	String	"Stop" / "Up" / "Down" / "Home" / "Position"	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓
	TiltPosition	Integer / String	0/"0"(Just above) - 9040/"9040"(Just beside) - 12080/"12080"(Diagonally downward) "TiltPosition" is valid when "TiltDirection" is "Position".	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓
	TiltSpeed	Integer / String	0 - 30/"0"~"30"	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓

\*\*"Speed = 0" has the same meaning as "Direction = Stop".

#### Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response				-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Requested	String	SetPTCrl	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

Example

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

### 3.4.2. Joystick Operation

---

Joystick operation command with direction and speed parameters.

For PTZ cameras, it should function as a cursor movement while the MENU is displayed.  
When auto tracking is on, the tracking target is switched by pan (left or right).

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	JoyStickOperation	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Params															
	PanDirection	String	"Stop" / "Left" / "Right"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	PanSpeed	Integer	0 - 30	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	TiltDirection	String	"Stop" / "Up" / "Down"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	TiltSpeed	Integer	0 - 30	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

\*\*Speed = 0" has the same meaning as "Direction = Stop".

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	JoyStickOperation	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

Example

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

### 3.4.3. Zoom switch operation

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

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	ZoomSwitchOperation	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓
	Params															
	Direction	String	"Stop" / "Wide" / "Tele"	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓
	Speed	Integer	0 - 8	-	✓	✓	✓	✓	✓	-	-	✓	-	-	-	-
		/ String	0 - 8/"0"~"8"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

\*\*Speed = 0" has the same meaning as "Direction = Stop".

#### Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	ZoomSwitchOperation	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓

#### Example

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

### 3.4.4. Set Pan / Tilt / Zoom preset

---

Control pan / tilt / zoom preset position.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetPTZPreset	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
	Params															
	No	Integer / String	1 - 100/"1"~"100"(Number of preset position) 1 - 255/"1"~"255"(Number of preset position in case of PZ400/200/510)	-	-	-	-	-	-	-	-	-	✓	-	✓	✓
	Operation	String	"Move"(Move to preset position) "Set" (Current position is stored) "Delete"(Delete the preset position)	-	-	-	-	-	-	-	-	-	✓	-	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetPTZPreset	-	-	-	-	-	-	-	-	-	✓	-	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	✓	-	✓	✓

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	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request			-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Command	String	GetCamStatusMinimum	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response			-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Requested	String	GetCamStatusMinimum	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Data			-	-	-	-	-	-	-	-	-	-	-	-	-
	Camera		(Camera)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Status	String	Status "NoCard"(no card inserted) / "Stop"(recording stop) / PZ400/200 always return "NoCard". "Standby"(record standby) / "Rec"(recording) "RecPause"(recording pause)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	VideoOutputStatus	String	"On" / "Off"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	MenuStatus	String	"On" / "Off"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Exposure			-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Status	String	"Auto" / "Manual" / "IrisPriority" / "ShutterPriority" "Bright"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Iris			-	-	-	-	-	-	-	-	-	-	-	-	-
	Status	String	"Auto" / "Manual"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Value	String	Character string for iris value	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Shutter			-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Status	String	"Auto" / "Manual"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Value	String	Character string for Shutter value	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Gain			-	-	-	-	-	-	-	-	-	-	-	-	-
	Status	String	"Auto" / "Manual"	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Value	String	Character string for gain value	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	AeLevel			-	-	-	-	-	-	-	✓	-	-	-	-	-
	Status	String	"AeOff" / "AeOn"	-	-	-	-	-	-	-	✓	-	-	-	-	-
	Value	String	Character string for AE level value	-	-	-	-	-	-	-	✓	-	-	-	-	-

Whb											
Status	String	"Faw" / "OnePush" / "3200K" / "5600K" / "Manual" "OnePush" / "Manual" / "Auto" / "Indoor" / "Outdoor"	-	-	-	-	-	-	✓	-	-
Value	String	Character string for White Balance value	-	-	-	-	-	-	✓	-	✓
WhPRScale	Integer	Slide bar total length for White paint Red(0-255)	-	-	-	-	-	-	✓	-	✓
WhPBScale	Integer	Slide bar total length for White paint Blue(0-255)	-	-	-	-	-	-	✓	-	✓
WhPRPosition	Integer	Slide bar current position for White paint Red(0-255)	-	-	-	-	-	-	✓	-	✓
WhPBPosition	Integer	Slide bar current position for White paint Blue(0-255)	-	-	-	-	-	-	✓	-	✓
WhPRValue	String	Character string for White paint Red value	-	-	-	-	-	-	✓	-	✓
WhPBValue	String	Character string for White paint Blue value	-	-	-	-	-	-	✓	-	✓
Focus											
Status	String	"Auto" / "Manual"	-	-	-	-	-	-	✓	-	✓
Value	String	Character string for Focus value	-	-	-	-	-	-	✓	-	✓
Zoom											
Position	Integer	Zoom position (0-499)	-	-	-	-	-	-	✓	-	✓
Detail											
Value	String	Character string for detail value	-	-	-	-	-	-	✓	-	-
Bright											
Value	String	Character string for Bright value	-	-	-	-	-	-	-	✓	✓
Streaming											
Status	String	Status "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)) / "Error" (Error occurred or waiting to start RTSP/RTP streaming and SRT Listener mode)	-	-	-	-	-	-	✓	-	✓
TallyLamp											
Priority	String	Priority "Camera" / "Web"	-	-	-	-	-	-	✓	-	-
Lighting	String	Lighting "On" / "Off"	-	-	-	-	-	-	✓	-	✓
StudioTally	String	Status "Off" / "Program" / "Preview"	-	-	-	-	-	-	✓	-	✓
Tracking											
Status	String	"On" / "Off"	-	-	-	-	-	-	-	-	✓
TrackingMode											
Status	String	"Standard" / "Area" / "Stage" / "WideArea" / "FineAdjustment"	-	-	-	-	-	-	-	-	✓
Enable		(Availability of function button switches)									
Exposure		(Exposure function)									
Auto	Integer	button "Auto" switch of exposure 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	✓
Manual	Integer	button "Manual" switch of exposure 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	✓
ShutterPriority	Integer	button ShutterPriority" switch of exposure 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	✓
IrisPriority	Integer	button "IrisPriority" switch of exposure 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	✓
Bright	Integer	button "Bright" switch of exposure 0:Disable, 1:Enable	-	-	-	-	-	-	-	✓	✓
Iris		(Iris function)									
Open1	Integer	button ">" switch of iris 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	✓
Close1	Integer	button "<" switch of iris 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	✓



		Preset	(Availability of preset number)											
		1	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	-	✓ ✓ ✓
		2	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	-	✓ ✓ ✓
		• • • • • • •												
		#	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	-	✓ ✓ ✓
		100	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	-	-	-	-	-	-	✓	-	-	✓ ✓ ✓

Example

```
{
  "Response": {
    "Requested": "GetCamStatusMinimum",
    "Result": "Success",
    "Data": {
      "Camera": {
        "VideoOutputStatus": "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": {
          "Status": "Auto", "Value": "0"
        }
      }
    }
  }
}
```

```
"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 , "77": 1 , "78": 1 , "79": 1 , "80": 1 ,  
    "81": 1 , "82": 1 , "83": 1 , "84": 1 , "85": 1 , "86": 1 , "87": 1 , "88": 1 , "89": 1 , "90": 1 ,  
    "91": 1 , "92": 1 , "93": 1 , "94": 1 , "95": 1 , "96": 1 , "97": 1 , "98": 1 , "99": 1 , "100": 1  
}  
}  
}  
}
```

### 3.4.6. Get Pan & Tilt Positions

---

Get Pan & Tilt positions

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetPTPosition	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetPTPosition	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Data															
	Pan	Integer	0(Back left limit) - 17540(Front) - 35080(Back right limit)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓
	Tilt	Integer	0(Just above) - 9040(Just beside) - 12080(Diagonally downward)	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓

Example

```
{
  "Response": {
    "Requested": "GetPTPosition",
    "Result": "Success",
    "Data": {
      "Pan": 17540,
      "Tilt": 9040
    }
  }
}
```

### 3.5. How to acquire JPEG data

These commands enables to start JPEG encoding and acquire 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.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25X	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	JpegEncode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	Params															
	Operate	String	"Start" / "Stop"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25X	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	JpegEncode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

### 3.5.2. Set JPEG encode size

---

Setting image resolution of acquiring JPEG data.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetJpegEncodeSize	-	-	-	-	-	-	-	✓	-	-	-	-	-
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	✓	-	-	-	-	-
	Params															
	Size	String	"640x360" / "320x180"	-	-	-	-	-	-	-	✓	-	-	-	-	-

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetJpegEncodeSize	-	-	-	-	-	-	-	✓	-	-	-	-	-
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	-	-	-	-	-

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.

### 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.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetIFBSettings	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	SessionID	String	(Session ID in cookie.)	-	✓	✓	-	-	-	-	-	-	-	-	-	-

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC300	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetIFBSettings	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Result	String	(Result of command processing.)	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Data															
	Function	String	Switch to enable IFB function. "Enable" / "Disable"	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Address	String	Address of IFB server. "xxx.xxx.xxx.xxx"	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Port	Integer	Port of IFB server. 1 - 65535	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Mountpoint	String	Mountpoint on IFB server. Max 62 characters.	-	✓	✓	-	-	-	-	-	-	-	-	-	-

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.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetIFBSettings	—	✓	✓	—	—	—	—	—	—	—	—	—	—
	SessionID	String	(Session ID in cookie.)	—	✓	✓	—	—	—	—	—	—	—	—	—	—
	Params															
	Function	String	Switch to enable IFB function. "Enable" / "Disable"	—	✓	✓	—	—	—	—	—	—	—	—	—	—
	Address	String	Address of IFB server. "xxx.xxx.xxx.xxx"	—	✓	✓	—	—	—	—	—	—	—	—	—	—
	Port	Integer	Port of IFB server. 1 - 65535	—	✓	✓	—	—	—	—	—	—	—	—	—	—
	Mountpoint	String	Mountpoint on IFB server. Max 62 characters.	—	✓	✓	—	—	—	—	—	—	—	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetIFBSettings	—	✓	✓	—	—	—	—	—	—	—	—	—	—
	Result	String	(Result of command processing.)	—	✓	✓	—	—	—	—	—	—	—	—	—	—

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	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetIFBCtrl	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	SessionID	String	(Session ID in cookie.)	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Params															
	Streaming	String	Streaming Control "Start":start streaming / "Stop":stop streaming	-	✓	✓	-	-	-	-	-	-	-	-	-	-

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetIFBCtrl	-	✓	✓	-	-	-	-	-	-	-	-	-	-
	Result	String	(Result of command processing.)	-	✓	✓	-	-	-	-	-	-	-	-	-	-

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.

This description is not for PZ400/200/510.

#### **Menu settings on HM660/HM200/HM25x/HM280/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\***

\* Tally lamp is controlled by Web API when selected.

### 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.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetStudioTally	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓
	SessionID	String	(Session ID in cookie.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓
	Params															
	Indication	String	"Off"(not Indicate status on LCD) / "Program"(Indicate PGM on LCD) / "Preview"(Indicate PVW on LCD)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetStudioTally	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓
	Result	String	(Result of command processing.)	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	✓

Example

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

### 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/HM25x/HM280/PZ100/HC5x0

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

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

#### HM8x0/HC900

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, On
**

\* If the Tally System setting is "Internal".

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

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	HS300	PZ100	HC500	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTallyLampPriority	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
	Params															
	Priority	Integer	"Camera"(Camera is given priority of control.) / "Web"(Web is given priority of control.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—

Example

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

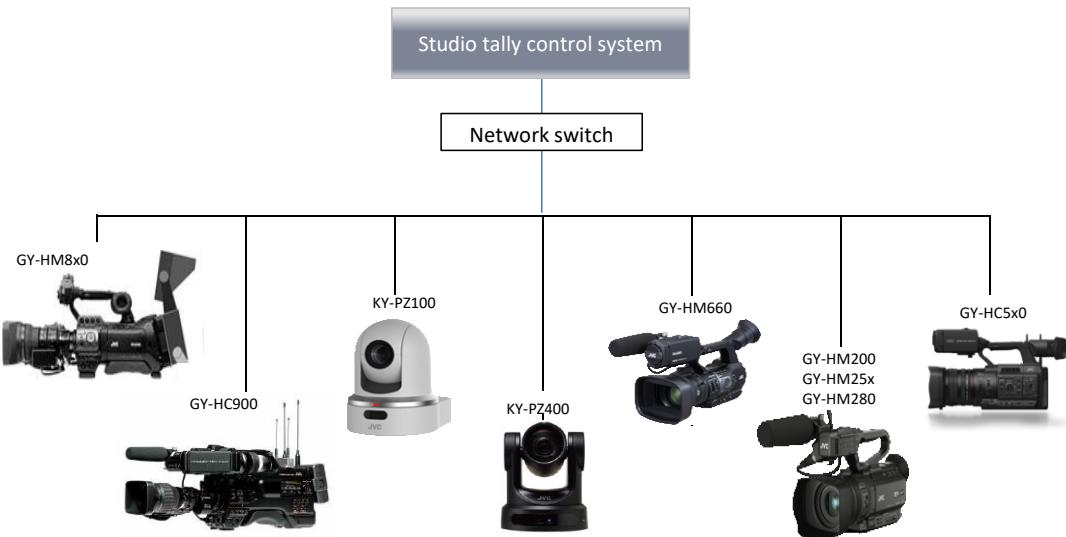
Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response	Requested	String	SetTallyLampPriority													
Response	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Example

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

### 3.7.3. Relation of commands on Studio tally system

System Chart



LED lighting of each model

Tally	Lamp	Priority	Studio	Tally	Settings	front	back	
Web		Program	External or Studio	GY-HM8x0				
		Preview	External or Studio	GY-HC900				
		Off	External or Studio	KY-PZ100				
Camera		Program	External or Studio	GY-HM200				
		other	External or Studio	GY-HM25x				
		Preview	External or Studio	GY-HM280				
		Off	External or Studio	KY-PZ400				
		other	External or Studio	KY-PZ510				
			other	GY-HC5x0				

LCD indication of each model

Tally	Lamp	Priority	Studio	Tally	Settings	PGM	PGM	PGM
Any time		Program	External or Studio	GY-HM8x0				
		Preview	External or Studio	GY-HC900				
		Off	External or Studio	KY-PZ100				
			other	GY-HM200				
			other	GY-HM25x				
			other	GY-HM280				
			other	KY-PZ400				
			other	KY-PZ510				
			other	GY-HC5x0				

LCD indication image



### 3.7.4 Sequence of studio tally system



- \* "GetCamStatusMinimum" command can be used to acquire the status as well on KY-PZ100/400/510.
- \* KY-PZ400/510 is not indication of studio tally status on LCD.

### 3.8. Return over IP Command

These commands enables to use Return over IP function.

Zixi and SRT streaming modes are mutually exclusive on GY-HC5x0 and GY-HC900.

Only "Zixi" or "Srt" parameter is effective according to the streaming mode.

Current mode can be checked using GetSystemInfo response.

#### 3.8.1. GetCurrentReturnOverIpServerID

Get current server ID for Return over IP function.

There are four server settings for Return over IP.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC500	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetCurrentReturnOverIpServerID	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	✓	✓	—	—	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC500	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetCurrentReturnOverIpServerID	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Result	String	(Result of command processing.)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Data															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	—	✓	✓	—	—	—	—	—

Example

```
{
  "Response": {
    "Requested": "GetCurrentReturnOverIpServerID",
    "Result": "Success",
    "Data": {
      "ID": 0
    }
  }
}
```

### 3.8.2. SetCurrentReturnOverIpServerID

Set current server ID for Return over IP function.

Choose the server ID to use in Return over IP function.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetCurrentReturnOverIpServerID	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	—	✓	✓	—	—	—	—	—

Example

```
{
  "Request": {
    "Command" : "SetCurrentReturnOverIpServerID",
    "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params" : {
      "ID" : 0
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetCurrentReturnOverIpServerID	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	✓	✓	—	—	—	—

Example

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

### 3.8.3. GetReturnOverIpServerSettings

---

Get Return over IP settings for each server ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetReturnOverIpServerSettings	—	—	—	—	—	—	✓	✓	—	—	—	—	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	✓	✓	—	—	—	—	
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	—	—	✓	✓	—	—	—	

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetReturnOverIpServerSettings	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Data															
	Alias	String	(Another name of server)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Type	String	"RTSP/RTP" / "Icecast" / "SRT"	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	RTSP/RTP		(Selected by Type)													
	Protocol	String	"UDP"/"TCP"	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	SrcAddress	String	(IP address)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	SrcPort	Integer	(Port number)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	StreamId	String	(Stream ID)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Username	String	(User name)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Password	String	(Password for RTSP/RTP)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Resolution	integer	0:1280x720	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	FrameRate	integer	1:60p, 2:30p, 4:50p, 5:25p	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Zixi		(Selected by Type)													
	SrcAddress	string	(IP address)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	SrcPort	integer	(Port number)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	StreamId	string	(Stream ID for ZIXI)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Password	string	(Password for ZIXI)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Name	string	(Name for ZIXI)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Latency	integer	0:Off, 1:Low, 2: Medium	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Resolution	integer	0:1280x720	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	FrameRate	integer	1:60p, 2:30p, 4:50p, 5:25p	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Icecast		(Selected by Type)													
	SrcAddress	String	(IP address)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	SrcPort	Integer	(Port number)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Mountpoint	String	(Mountpoint)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	SRT		(Selected by Type)													
	SrcAddress	string	(IP address)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Port	integer	(Port number)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	ConnectionMode	integer	0: Caller 1: Listener, 2: Rendezvous	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Latency	integer	20 - 8000	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Encryption	integer	0: OFF, 1: ON	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Passphrase	string	(Passphrase for SRT)	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	Resolution	integer	0:1280x720	-	-	-	-	-	-	-	-	✓	✓	-	-	-
	FrameRate	integer	1:60p, 2:30p, 4:50p, 5:25p	-	-	-	-	-	-	-	-	✓	✓	-	-	-

Example

```
{  
  "Response": {  
    "Requested": "GetReturnOverIpServerSettings",  
    "Result": "Success",  
    "Data": {  
      "Alias": "Server1",  
      "Type": "RTSP",  
      "Rtsp": {  
        "Protocol": "UDP",  
        "SrcAddress": "192.168.0.1",  
        "SrcPort": 6504  
        "StreamId": "HC900-1234",  
        "Username": "Jvckenwood",  
        "Password": "abcdefghijkl"  
      }  
    }  
  }  
}
```

### 3.8.3.1. AvailableTypeOfReturnOverIP

---

Get Available type.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	AvailableTypeOfReturnOverIP	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	✓	✓	—	—	—	—

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	AvailableTypeOfReturnOverIP	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	Data															
	AvailableType															
	RTSP/RTP	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	Icecast	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	Zixi	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	—	✓	✓	—	—	—	—
	SRT	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	—	✓	✓	—	—	—	—

Example

```
{
  "Response": {
    "Requested": "AvailableTypeOfReturnOverIP",
    "Result": "Success",
    "Data": {
      "AvailableType": {
        "RTSP/RTP": 1,
        "Icecast": 1,
        "Zixi": 0
      }
    }
  }
}
```

### 3.8.3.2. AvailableFrameRateOfReturnOverIP

Get available frame rate.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	AvailableFrameRateOfReturnOverIP	—	—	—	—	—	—	✓	✓	—	—	—	—	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	✓	✓	—	—	—	—	
	Params															
	RecordingFrameRate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p"	—	—	—	—	—	—	✓	✓	—	—	—	—	

Example

```
{
  "Request": {
    "Command": "AvailableFrameRateOfReturnOverIP",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "RecordingFrameRate": "60p"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	AvailableFrameRateOfReturnOverIP	—	—	—	—	—	—	✓	✓	—	—	—	—	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	✓	✓	—	—	—	—	
	Data															
	RecordingFrameRate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p"	—	—	—	—	—	—	✓	✓	—	—	—	—	
	AvailableFrameRate															
	"60p"	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	✓	✓	—	—	—	—	
	"30p"	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	✓	✓	—	—	—	—	
	"50p"	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	✓	✓	—	—	—	—	
	"25p"	Integer	0 : unselectable , 1 : selectable	—	—	—	—	—	—	✓	✓	—	—	—	—	

Example

```
{
  "Response": {
    "Requested": "AvailableFrameRateOfReturnOverIP",
    "Result": "Success",
    "Data": {
      "RecordingFrameRate": "60p",
      "AvailableFrameRate": {
        "60p": 1,
        "30p": 1,
        "50p": 0,
        "25p": 0
      }
    }
  }
}
```

### 3.8.4. SetReturnOverIpServerSettingsRTSP

Set Return over IP settings for each server ID.  
This command is used for RTSP/RTP protocol.

Request	Key	Style	Value	H-M650	H-M660	H-M8x0	H-M200	H-M25x	H-M280	S300	P2100	H-C900	H-C5x0	P2400	P2200	P2510
	Request															
	Command	String	SetReturnOverIpServerSettingsRTSP	—	—	—	—	—	✓	✓	—	—	—	—	—	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Alias	String	(Another name of server)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Protocol	String	"UDP"/"TCP"	—	—	—	—	—	✓	✓	—	—	—	—	—	
	SrcAddress	String	(IP address)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	SrcPort	Integer	(Port number)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	StreamId	String	(Stream ID)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Username	String	(User name)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Password	String	(Password for RTSP/RTP)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	FrameRate	Integer	1:60p, 2:30p, 4:50p, 5:25p	—	—	—	—	—	✓	✓	—	—	—	—	—	

#### Example

```
{
  "Request": {
    "Command": "SetReturnOverIpServerSettingsRTSP",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID": 1,
      "Alias": "Server1",
      "Protocol": "UDP",
      "SrcAddress": "192.168.0.1",
      "SrcPort": 6504
      "StreamId": "HC900-1234",
      "Username": "Jvckenwood",
      "Password": "abcde",
      "FrameRate": 1
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response				—	—	—	—	—	—	—	✓	✓	—	—	—	
	Requested	String	SetReturnOverIpServerSettingsRTSP	—	—	—	—	—	—	—	✓	✓	—	—	—	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	✓	✓	—	—	—	

Example

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

### 3.8.5. SetReturnOverIpServerSettingsZIXI

---

Set Return over IP settings for each server ID.

This command is used for Zixi protocol.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HZ5x0	PZ400	PZ200	PZ510
Request																
	Command	String	SetReturnOverIpServerSettingsZIXI	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Alias	String	(Another name of server)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	SrcAddress	String	(IP address)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	SrcPort	Integer	(Port number)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	StreamId	String	(Stream ID for ZIXI)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Password	String	(Password for ZIXI)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Name	String	(Name for ZIXI)	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Latency	Integer	0:Low, 1:Medium, 2:Minimum(Zixi OFF), 3:High	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	FrameRate	Integer	1:60p, 2:30p, 4:50p, 5:25p	—	—	—	—	—	—	✓	✓	—	—	—	—	—

#### Example

```
{
  "Request": {
    "Command": "SetReturnOverIpServerSettingsZIXI",
    "SessionID": "7425fbccb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID": 1,
      "Alias": "Server1",
      "SrcAddress": "192.168.0.1",
      "SrcPort": 2088,
      "StreamId": "HM650-1234",
      "Password": "abcde",
      "Name": "JvcKenwood",
      "Latency": 0,
      "FrameRate": 1
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response				-	-	-	-	-	-	-	✓	✓	-	-	-	-
	Requested	String	SetReturnOverIpServerSettingsZIXI	-	-	-	-	-	-	-	✓	✓	-	-	-	-
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	✓	-	-	-	-

Example

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

### 3.8.6. SetReturnOverIpServerSettingsIcecast

Set Return over IP settings for each server ID.  
This command is used for Icecast protocol.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetReturnOverIpServerSettingsIcecast	—	—	—	—	—	✓	✓	—	—	—	—	—	—
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	✓	✓	✓	—	—	—	—	—
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	✓	✓	—	—	—	—	—	—
	Alias	String	(Another name of server)	—	—	—	—	—	✓	✓	✓	—	—	—	—	—
	SrcAddress	String	(IP address)	—	—	—	—	—	✓	✓	✓	—	—	—	—	—
	SrcPort	Integer	(Port number)	—	—	—	—	—	✓	✓	✓	—	—	—	—	—
	Mountpoint	String	(Mountpoint)	—	—	—	—	—	✓	✓	✓	—	—	—	—	—

Example

```
{
  "Request": {
    "Command": "SetReturnOverIpServerSettingsIcecast",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID": 1,
      "Alias": "Server1",
      "SrcAddress": "192.168.0.1",
      "SrcPort": 6504,
      "Mountpoint": "abcdefg"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetReturnOverIpServerSettingsIcecast	—	—	—	—	—	—	✓	✓	—	—	—	—	—
	Result	String	(Result of command processing.)	—	—	—	—	—	—	✓	✓	—	—	—	—	—

Example

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

### 3.8.7. SetReturnOverIpCtrl

---

This command is used to start/stop Return over IP.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetReturnOverIpCtrl	-	-	-	-	-	-	-	✓	✓	-	-	-	-
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	✓	✓	-	-	-	-
	Params															
	Operate	String	Streaming Control "Start":start Return over IP / "Stop":stop Return over IP	-	-	-	-	-	-	-	✓	✓	-	-	-	-

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25k	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetReturnOverIpCtrl	-	-	-	-	-	-	-	✓	✓	-	-	-	-
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	✓	✓	-	-	-	-

Example

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

### 3.8.8. SetReturnOverIpServerSettingsSRT

---

Set Return over IP settings for each server ID.

This command is used for SRT protocol.

Request	Key	Style	Value	H-M650	H-M660	H-M8x0	H-M200	H-M25x	H-M280	S300	P2100	H-C900	H-Z5x0	P2400	P2200	P2510
	Request															
	Command	String	SetReturnOverIpServerSettingsSRT	—	—	—	—	—	✓	✓	—	—	—	—	—	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Params															
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Alias	String	(Another name of server)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	SrcAddress	String	(IP address)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Port	Integer	(Port number)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	ConnectionMode	Integer	0: Caller 1: Listener, 2: Rendezvous	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Latency	Integer	20 - 8000	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Encryption	Integer	0: OFF, 1: ON	—	—	—	—	—	✓	✓	—	—	—	—	—	
	Passphrase	String	(Passphrase for SRT)	—	—	—	—	—	✓	✓	—	—	—	—	—	
	FrameRate	Integer	1:60p, 2:30p, 4:50p, 5:25p	—	—	—	—	—	✓	✓	—	—	—	—	—	

#### Example

```
{
  "Request": {
    "Command": "SetReturnOverIpServerSettingsSRT",
    "SessionID": "7425fbccb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID": 1,
      "Alias": "Server1",
      "SrcAddress": "192.168.0.1",
      "Port": 2088,
      "ConnectionMode": 0,
      "Latency": 20,
      "Encryption": 0,
      "Passphrase": "abcdefghijklmn",
      "FrameRate": 1,
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response				—	—	—	—	—	—	—	✓	✓	—	—	—	
	Requested	String	SetReturnOverIpServerSettingsSRT	—	—	—	—	—	—	—	✓	✓	—	—	—	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	✓	✓	—	—	—	

Example

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

### 3.9 Auto Tracking Command

#### 3.9.1. Set Auto Tracking On/Off

Sets auto tracking on/off.

You can get the current settings with "GetCamStatus" or "GetCamStatusMinimum".

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTracking													
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	Tracking	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTracking",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "Tracking": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTracking	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.2. Set Auto Tracking Mode

---

Sets auto tracking mode.

You can get the current settings with "GetCamStatus" or "GetCamStatusMinimum".

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Request																
Command	String	SetTrackingMode		—	—	—	—	—	—	—	—	—	—	—	✓	
SessionID	String	(Session ID in cookie.)		—	—	—	—	—	—	—	—	—	—	—	✓	
Params																
TrackingMode	String	"Standard" / "Area" / "Stage" / "WideArea" / "FineAdjustment"		—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingMode",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TrackingMode": "Standard"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
Requested	String	SetTrackingMode		—	—	—	—	—	—	—	—	—	—	—	✓	
Result	String	(Result of command processing.)		—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.3. Set Auto Tracking Bounding Box

---

Sets auto tracking bounding box.

You can get the current settings with "GetCamStatus" or "GetCamStatusMinimum".

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Request																
	Command	String	SetTrackingBoundingBox	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	TrackingBoundingBox	String	"Auto" / "Off" / "On"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingBoundingBox",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TrackingBoundingBox": "Auto"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
Response																
	Requested	String	SetTrackingBoundingBox	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.4. Get Auto Tracking Settings of Standard Mode

Request all auto tracking settings of Standard mode.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request			-	-	-	-	-	-	-	-	-	-	-	-	✓
	Command	String	GetTrackingStandard	-	-	-	-	-	-	-	-	-	-	-	-	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	-	-	-	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response			-	-	-	-	-	-	-	-	-	-	-	-	✓
	Requested	String	GetTrackingStandard	-	-	-	-	-	-	-	-	-	-	-	-	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	-	-	-	✓
	Data			-	-	-	-	-	-	-	-	-	-	-	-	-
	AutoZoom	String	"On" / "Off"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	AutoTilt	String	"On" / "Off"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	TargetRetentionTime	Integer	5, 8, 10, 12, 15	-	-	-	-	-	-	-	-	-	-	-	-	✓
	FigureSize	String	"Full" / "Upper" / "Close" / "Custom"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	FigureSizeCustom	Integer	80-290 (This parameter is valid only when 'FigureSize' is 'Custom'.)	-	-	-	-	-	-	-	-	-	-	-	-	✓
	VerticalPosition	Integer	-5 - 5	-	-	-	-	-	-	-	-	-	-	-	-	✓
	HorizontalPosition	String	"Left" / "Center" / "Right"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	StartPosition	String	"CurrentPosition" / "HomePosition" / "Preset1"	-	-	-	-	-	-	-	-	-	-	-	-	✓

Example

```
{
  "Response": {
    "Requested": "GetTrackingStandard",
    "Result": "Success",
    "Data": {
      "AutoZoom": "On",
      "AutoTilt": "On",
      "TargetRetentionTime": 10,
      "FigureSize": "Full",
      "VerticalPosition": 0,
      "HorizontalPosition": "Center",
      "StartPosition": "CurrentPosition"
    }
  }
}
```

Example ('FigureSize' is 'Custom')

```
{
  "Response": {
    "Requested": "GetTrackingStandard",
    "Result": "Success",
    "Data": {
      "AutoZoom": "On",
      "AutoTilt": "On",
      "TargetRetentionTime": 10,
      "FigureSize": "Custom",
      "FigureSizeCustom": 80,
      "VerticalPosition": 0,
      "HorizontalPosition": "Center",
      "StartPosition": "CurrentPosition"
    }
  }
}
```

### 3.9.5. Set Auto Zoom of Standard Mode of Auto Tracking

---

Set auto zoom of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardAutoZoom	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	AutoZoom	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardAutoZoom",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "AutoZoom": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardAutoZoom	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.6. Set Auto Tilt of Standard Mode of Auto Tracking

---

Set auto tilt of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardAutoTilt	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	AutoTilt	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardAutoTilt",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "AutoTilt": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardAutoTilt	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.7. Set Target Retention Time of Standard Mode of Auto Tracking

---

Set target retention time of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	TargetRetentionTime	Integer	5, 8, 10, 12, 15	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardTargetRetentionTime",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TargetRetentionTime": 10
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.8. Set Figure Size of Standard Mode of Auto Tracking

Set figure size of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardFigureSize	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	FigureSize	String	"Full" / "Upper" / "Close" / "Custom"	—	—	—	—	—	—	—	—	—	—	—	✓	
	FigureSizeCustom	Integer	80-290 (This parameter is valid only when 'FigureSize' is 'Custom').	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardFigureSize",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "FigureSize": "Full"
    }
  }
}
```

Example ('FigureSize' is 'Custom')

```
{
  "Request": {
    "Command": "SetTrackingStandardFigureSize",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "FigureSize": "Custom",
      "FigureSizeCustom": 80
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardFigureSize	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.9. Set Vertical Position of Standard Mode of Auto Tracking

---

Set vertical position of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardVerticalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	VerticalPosition	Integer	-5 - 5	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardVerticalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "VerticalPosition": 0
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardVerticalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.10. Set Horizontal Position of Standard Mode of Auto Tracking

---

Set horizontal position of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	HorizontalPosition	String	"Left" / "Center" / "Right"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardHorizontalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "HorizontalPosition": "Center"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.11. Set Tracking Start Position of Standard Mode of Auto Tracking

Set tracking start position of Standard mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStandardStartPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	StartPosition	String	"CurrentPosition" / "HomePosition" / "Preset1"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStandardStartPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "StartPosition": "CurrentPosition"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStandardStartPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.12 Get Auto Tracking Settings of Area Mode

---

Request all auto tracking settings of area mode.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetTrackingArea	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	—	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetTrackingArea	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Data															
	TargetRetentionTime	Integer	5, 8, 10, 12, 15													
	StartingArea	String	"A1" / "A2" / "A3" / "A4"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Response": {
    "Requested": "GetTrackingArea",
    "Result": "Success",
    "Data": {
      "TargetRetentionTime": 10,
      "StartingArea": "A1"
    }
  }
}
```

### 3.9.13 Execute Set/Delete Starting Area of Area Mode of Auto Tracking

Execute set/delete starting area of area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	ExecuteTrackingStartingArea	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	Command	String	"Set" / "Delete"	—	—	—	—	—	—	—	—	—	—	—	✓	
	Area	String	"A1" / "A2" / "A3" / "A4"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "ExecuteTrackingStartingArea",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3"
    "Params": {
      "Command": "Set",
      "Area": "A1"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	ExecuteTrackingStartingArea	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.14. Set Target Retention Time of Area Mode of Auto Tracking

---

Set target retention time of area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingAreaTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	TargetRetentionTime	Integer	5, 8, 10, 12, 15	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingAreaTargetRetentionTime",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TargetRetentionTime": 10
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingAreaTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.15. Set Tracking Starting Area of Area Mode of Auto Tracking

Set tracking starting area of area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingAreaStartingArea	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	StartingArea	String	"A1" / "A2" / "A3" / "A4"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingAreaStartingArea",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "StartingArea": "A1"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingAreaStartingArea	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.16 Get Auto Tracking Settings of Stage Mode

---

Request all auto tracking settings of stage mode.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetTrackingStage	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	—	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetTrackingStage	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Data															
	TargetRetentionTime	Integer	5, 8, 10, 12, 15													
	HorizontalPosition	String	"Left" / "Center" / "Right"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Response": {
    "Requested": "GetTrackingStage",
    "Result": "Success",
    "Data": {
      "TargetRetentionTime": 10,
      "HorizontalPosition": "Center"
    }
  }
}
```

### 3.9.17 Execute Set/Delete Position of Stage Mode of Auto Tracking

Execute set/delete position of stage mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	ExecuteTrackingStagePosition	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		
	Params															
	Command	String	"Set" / "Delete"	—	—	—	—	—	—	—	—	—	—	✓		
	Position	String	"Left" / "Right" / "Start"	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Request": {
    "Command" : "ExecuteTrackingStagePosition",
    "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
    "Params" : {
      "Command" : "Set",
      "Position" : "Left"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	ExecuteTrackingStagePosition	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	✓		

Example

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

### 3.9.18. Set Target Retention Time of Stage Mode of Auto Tracking

Set target retention time of stage mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStageTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	TargetRetentionTime	Integer	5, 8, 10, 12, 15	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStageTargetRetentionTime",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TargetRetentionTime": 10
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStageTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.19. Set Horizontal Position of Stage Mode of Auto Tracking

---

Set horizontal position of stage mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingStageHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	HorizontalPosition	String	"Left" / "Center" / "Right"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingStageHorizontalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "HorizontalPosition": "Center"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingStageHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.20 Get Auto Tracking Settings of Wide Area Mode

Request all auto tracking settings of wide area mode.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request			-	-	-	-	-	-	-	-	-	-	-	-	✓
	Command	String	GetTrackingWideArea	-	-	-	-	-	-	-	-	-	-	-	-	✓
	SessionID	String	(Session ID in cookie.)	-	-	-	-	-	-	-	-	-	-	-	-	✓

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response			-	-	-	-	-	-	-	-	-	-	-	-	✓
	Requested	String	GetTrackingWideArea	-	-	-	-	-	-	-	-	-	-	-	-	✓
	Result	String	(Result of command processing.)	-	-	-	-	-	-	-	-	-	-	-	-	✓
	Data			-	-	-	-	-	-	-	-	-	-	-	-	-
	AutoZoom	String	"On" / "Off"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	AutoTilt	String	"On" / "Off"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	TargetRetentionTime	Integer	5, 8, 10, 12, 15	-	-	-	-	-	-	-	-	-	-	-	-	✓
	FigureSize	String	"Full" / "Upper" / "Close" / "Custom"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	FigureSizeCustom	Integer	80-290 (This parameter is valid only when 'FigureSize' is 'Custom'.)	-	-	-	-	-	-	-	-	-	-	-	-	✓
	VerticalPosition	Integer	-5 - 5	-	-	-	-	-	-	-	-	-	-	-	-	✓
	HorizontalPosition	String	"Left" / "Center" / "Right"	-	-	-	-	-	-	-	-	-	-	-	-	✓
	StartPosition	String	"CurrentPosition" / "HomePosition" / "W1" / "W2" / "Preset1"	-	-	-	-	-	-	-	-	-	-	-	-	✓

Example

```
{
  "Response": {
    "Requested": "GetTrackingWideArea",
    "Result": "Success",
    "Data": {
      "AutoZoom": "On",
      "AutoTilt": "On",
      "TargetRetentionTime": 10,
      "FigureSize": "Full",
      "VerticalPosition": 0,
      "HorizontalPosition": "Center",
      "StartPosition": "CurrentPosition"
    }
  }
}
```

Example ('FigureSize' is 'Custom')

```
{
  "Response": {
    "Requested": "GetTrackingWideArea",
    "Result": "Success",
    "Data": {
      "AutoZoom": "On",
      "AutoTilt": "On",
      "TargetRetentionTime": 10,
      "FigureSize": "Custom",
      "FigureSizeCustom": 80,
      "VerticalPosition": 0,
      "HorizontalPosition": "Center",
      "StartPosition": "CurrentPosition"
    }
  }
}
```

### 3.9.21 Execute Set/Delete Position of Wide Area Mode of Auto Tracking

---

Execute set/delete position of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	ExecuteTrackingWideAreaPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	Command	String	"Set" / "Delete"	—	—	—	—	—	—	—	—	—	—	—	✓	
	Position	String	"W1" / "W2"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command" : "ExecuteTrackingWideAreaPosition",
    "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"
    "Params" : {
      "Command" : "Set",
      "Position" : "E"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	ExecuteTrackingWideAreaPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.22. Set Auto Zoom of Wide Area Mode of Auto Tracking

---

Set auto zoom of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaAutoZoom	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	AutoZoom	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaAutoZoom",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "AutoZoom": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaAutoZoom	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.23. Set Auto Tilt of Wide Area Mode of Auto Tracking

---

Set auto tilt of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaAutoTilt	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	AutoTilt	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaAutoTilt",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "AutoTilt": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaAutoTilt	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.24. Set Target Retention Time of Wide Area Mode of Auto Tracking

Set target retention time of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	TargetRetentionTime	Integer	5, 8, 10, 12, 15	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaTargetRetentionTime",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "TargetRetentionTime": 10
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaTargetRetentionTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.25. Set Figure Size of Wide Area Mode of Auto Tracking

Set figure size of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaFigureSize	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		
	Params															
	FigureSize	String	"Full" / "Upper" / "Close" / "Custom"	—	—	—	—	—	—	—	—	—	—	✓		
	FigureSizeCustom	Integer	80-290 (This parameter is valid only when 'FigureSize' is 'Custom').	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaFigureSize",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "FigureSize": "Full"
    }
  }
}
```

Example ('FigureSize' is 'Custom')

```
{
  "Request": {
    "Command": "SetTrackingWideAreaFigureSize",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "FigureSize": "Custom",
      "FigureSizeCustom": 80
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaFigureSize	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	✓		

Example

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

### 3.9.26. Set Vertical Position of Wide Area Mode of Auto Tracking

Set vertical position of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaVerticalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	VerticalPosition	Integer	-5 - 5	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaVerticalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "VerticalPosition": 0
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaVerticalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.27. Set Horizontal Position of Wide Area Mode of Auto Tracking

---

Set horizontal position of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	HorizontalPosition	String	"Left" / "Center" / "Right"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaHorizontalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "HorizontalPosition": "Center"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.28. Set Tracking Start Position of Wide Area Mode of Auto Tracking

Set tracking start position of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingWideAreaStartPosition	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		
	Params															
	StartPosition	String	"CurrentPosition" / "HomePosition" / "W1" / "W2" / "Preset1"	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Request": {
    "Command": "SetTrackingWideAreaStartPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "StartPosition": "CurrentPosition"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingWideAreaStartPosition	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	✓		

Example

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

### 3.9.29 Get Auto Tracking Settings of Fine Adjustment Mode

Request all auto tracking settings of Fine Adjustment mode.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetTrackingFineAdjustment	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		

Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetTrackingFineAdjustment	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	✓		
	Data															
	AutoZoom	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	✓		
	AutoTilt	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	✓		
	DurationTime	Integer	1-6	—	—	—	—	—	—	—	—	—	—	✓		
	FigureSize	String	"Full" / "Upper" / "Close" / "Custom"	—	—	—	—	—	—	—	—	—	—	✓		
	FigureSizeCustom	Integer	80-290 (This parameter is valid only when 'FigureSize' is 'Custom'.)	—	—	—	—	—	—	—	—	—	—	✓		
	VerticalPosition	Integer	-5 - 5	—	—	—	—	—	—	—	—	—	—	✓		
	HorizontalPosition	String	"Left" / "Center" / "Right"	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Response": {
    "Requested": "GetTrackingFineAdjustment",
    "Result": "Success",
    "Data": {
      "AutoZoom": "On",
      "AutoTilt": "On",
      "DurationTime": 3,
      "FigureSize": "Center",
      "VerticalPosition": 0,
      "HorizontalPosition": "Center"
    }
  }
}
```

Example ('FigureSize' is 'Custom')

```
{
  "Response": {
    "Requested": "GetTrackingFineAdjustment",
    "Result": "Success",
    "Data": {
      "AutoZoom": "On",
      "AutoTilt": "On",
      "DurationTime": 3,
      "FigureSize": "Custom",
      "FigureSizeCustom": 80,
      "VerticalPosition": 0,
      "HorizontalPosition": "Center"
    }
  }
}
```

### 3.9.30. Set Auto Zoom of Fine Adjustment Mode of Auto Tracking

Set auto zoom of fine adjustment mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingFineAdjustmentAutoZoom	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	AutoZoom	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentAutoZoom",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "AutoZoom": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingFineAdjustmentAutoZoom	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.31. Set Auto Tilt of Fine Adjustment Mode of Auto Tracking

---

Set auto tilt of wide area mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingFineAdjustmentAutoTilt	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	AutoTilt	String	"On" / "Off"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentAutoTilt",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "AutoTilt": "On"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingFineAdjustmentAutoTilt	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.32. Set Tracking Duration Time of Fine Adjustment Mode of Auto Tracking

---

Set tracking duration time of Fine Adjustment mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingFineAdjustmentDurationTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	DurationTime	Integer	1-6	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentDurationTime",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "DurationTime": 3
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingFineAdjustmentDurationTime	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.33. Set Figure Size of Fine Adjustment Mode of Auto Tracking

Set figure size of fine adjustment mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingFineAdjustmentFigureSize	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		
	Params															
	FigureSize	String	"Full" / "Upper" / "Close" / "Custom"	—	—	—	—	—	—	—	—	—	—	✓		
	FigureSizeCustom	Integer	80-290 (This parameter is valid only when 'FigureSize' is 'Custom').	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentFigureSize",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "FigureSize": "Full"
    }
  }
}
```

Example ('FigureSize' is 'Custom')

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentFigureSize",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "FigureSize": "Custom",
      "FigureSizeCustom": 80
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingFineAdjustmentFigureSize	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	✓		

Example

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

### 3.9.34. Set Vertical Position of Fine Adjustment Mode of Auto Tracking

Set vertical position of fine adjustment mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingFineAdjustmentVerticalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	VerticalPosition	Integer	-5 - 5	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentVerticalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "VerticalPosition": 0
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingFineAdjustmentVerticalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.35. Set Horizontal Position of Fine Adjustment Mode of Auto Tracking

---

Set horizontal position of fine adjustment mode of auto tracking.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	SetTrackingFineAdjustmentHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	—	✓	
	Params															
	HorizontalPosition	String	"Left" / "Center" / "Right"	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

```
{
  "Request": {
    "Command": "SetTrackingFineAdjustmentHorizontalPosition",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "HorizontalPosition": "Center"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	SetTrackingFineAdjustmentHorizontalPosition	—	—	—	—	—	—	—	—	—	—	—	✓	
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	—	✓	

Example

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

### 3.9.36 Get All Detected Objects

---

Request all detected objects.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Request															
	Command	String	GetTrackingDetectedObjects	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		

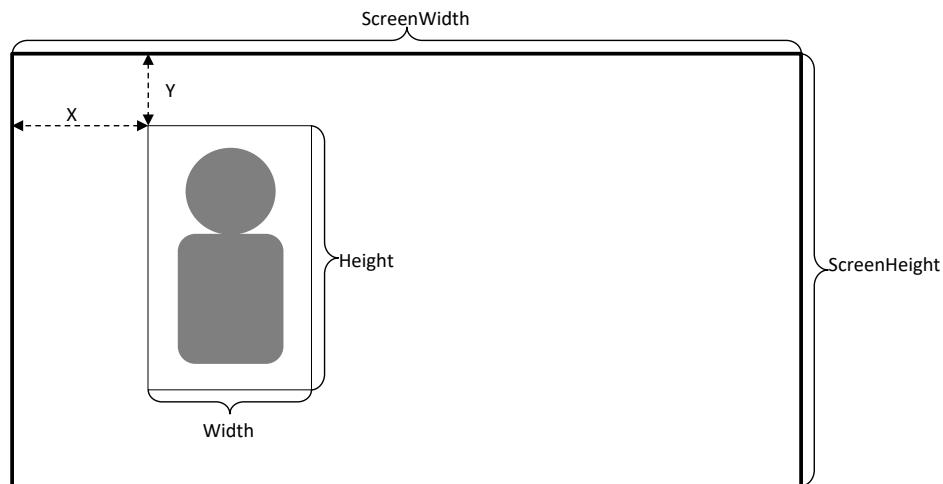
Example

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

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ200	PZ510
	Response															
	Requested	String	GetTrackingDetectedObjects	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.)	—	—	—	—	—	—	—	—	—	—	✓		
	Data															
	ScreenWidth	Integer	Screen width (resolution width)	—	—	—	—	—	—	—	—	—	—	✓		
	ScreenHeight	Integer	Screen height (resolution height)	—	—	—	—	—	—	—	—	—	—	✓		
	Objects	Array	The size of the array depends on the number of objects detected.	—	—	—	—	—	—	—	—	—	—	✓		
	ID	String	Unique ID used to specify in "SetTrackingTarget". The ID must be valid at least until the next "GetTrackingDetectedObjects" request within the same "SessionID".	—	—	—	—	—	—	—	—	—	—	✓		
	X	Integer	X coordinate of the upper left of the detected object.	—	—	—	—	—	—	—	—	—	—	✓		
	Y	Integer	Y coordinate of the upper left of the detected object.	—	—	—	—	—	—	—	—	—	—	✓		
	Width	Integer	Detected object width.	—	—	—	—	—	—	—	—	—	—	✓		
	Height	Integer	Detected object height.	—	—	—	—	—	—	—	—	—	—	✓		
	TargetObjectID	String	ID of the current tracking target. If there is no tracking target, a zero-length string ("").	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{  
  "Response": {  
    "Requested": "GetTrackingDetectedObjects",  
    "Result": "Success",  
    "Data": {  
      "ScreenWidth": 1920,  
      "ScreenHeight": 1080,  
      "Objects": [  
        {"ID": "abc", "X": 100, "Y": 150, "Width": 200, "Height": 600},  
        {"ID": "def", "X": 700, "Y": 350, "Width": 250, "Height": 700},  
        {"ID": "ghi", "X": 1300, "Y": 200, "Width": 400, "Height": 500}  
      ],  
      "TargetObjectID": "abc"  
    }  
  }  
}
```



### 3.9.37. Set Tracking Target

---

Set the tracking target to the specified object ID.

Request	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ2200	PZ510
	Request															
	Command	String	SetTrackingTarget	—	—	—	—	—	—	—	—	—	—	✓		
	SessionID	String	(Session ID in cookie.)	—	—	—	—	—	—	—	—	—	—	✓		
	Params															
	ID	String	Object ID obtained by "GetTrackingDetectedObjects".	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Request": {
    "Command": "SetTrackingTarget",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
      "ID": "abc"
    }
  }
}
```

Response	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	HC5x0	PZ400	PZ2200	PZ510
	Response															
	Requested	String	SetTrackingTarget	—	—	—	—	—	—	—	—	—	—	✓		
	Result	String	(Result of command processing.) <b>*Command parsed result</b>	—	—	—	—	—	—	—	—	—	—	✓		
	Data															
	Result	String	<b>(Command execution result)</b>	—	—	—	—	—	—	—	—	—	—	✓		
			"Succeeded" : Successfully set tracking target.	—	—	—	—	—	—	—	—	—	—	✓		
			"Lost" : Lost the object with the specified ID.	—	—	—	—	—	—	—	—	—	—	✓		
			"InvalidID" : Specified ID is invalid.	—	—	—	—	—	—	—	—	—	—	✓		
			"InvalidOperationException" : Can't set tracking target in current mode.	—	—	—	—	—	—	—	—	—	—	✓		

Example

```
{
  "Response": {
    "Requested": "SetTrackingTarget",
    "Result": "Success",
    "Data": {
      "Result": "Succeeded"
    }
  }
}
```