JVC Camcorder Web API Reference Version 1.18

JVC KENWOOD 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.

Version	Outline
1.00	First release
1.00	Added GY-HM660 to the command table
1.01	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.
1.02	Type "TCP" is effective in "GY-HM650" 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.
1.00	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
4.07	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".
4.00	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.
1.10	Added some resolution and bitrate parameters to "3.1. Streaming Setting Command".
	Added "Smpte2022Fee" to "3.1.10. Get streaming server settings" and "3.1.16. Set streaming server settings(RTP)".
	Added "Adaptive Bitrate" 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. GetReturnOverlpServerSettings" and "3.8.4. SetReturnOverlpServerSettings(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".
12	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".
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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. GetReturnOverlpServerSettings" / "3.8.8. SetReturnOverlpServerSettingsSRT" / "3.8.3.1. AvailableTypeOfReturnOverlP"
	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.
1.17	Supported K1-F2400 Hewly.
1.18	Supported KY-PZ200 newly.
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1.1. Specification

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

Following commands are available.

Setting command - Configure camera settings

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

, the memory of the value

Camera control command - Control camera
PTZ camera control command - Control PTZ camera

JPEG data acquisition commanc - Acquire JPEG data. JPEG data acquisition commant - Acquire JPEG data.
Interruptible feedback settings - Configure IFB settings.
Studio tally control command
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.

	Firmware V	ersion										
API 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
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

 $^{^{\}star}$ This list shows a API version number which is returned by each firmware. Newest API document supports most recent firmware on all models.

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'.

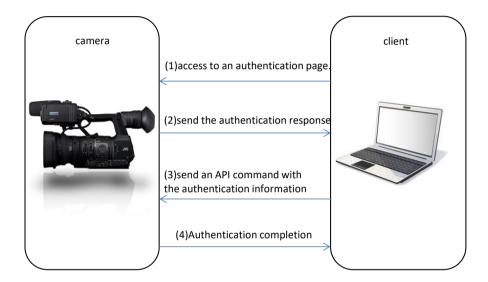
'Session ID' will expire within 30 seconds.

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

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

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

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

Example

GET /api.php HTTP/1.1\r\n Host: 192.168.0.134\r\n

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

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

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

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

Authorization: Digest username="prohd", realm="GY-HM650",

nonce="7a63056b0a608017c405707e682b9adb", uri="/api.php",

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

cnonce="ee16206547e4dd0e"\r\n

\r\n

(4)Session ID is returned form the camera.

Example

HTTP/1.1 302 Found\r\n

Status: 302 Moved Temporarily\r\n

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

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

Pragma: no-cache\r\n

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

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

Transfer-Encoding: chunked\r\n

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

Server: Camerar\n

\r\n

return to (2) in authentication failure.

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

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

 $Content-Type: application/x-www-form-urlencoded; \ charset=UTF-8 \ V\ n$

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,

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.

Ke	y		Style	Value
Re	que	est		
	Со	mmand	String	(Command name)
	Se	essionID	String	(Session ID in cookie.)
	Pa	ırams		(You can omit this field if there is no parameter.)
		***	***	

Example

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

2.3. Response form

Hypertext Transfer Protocol

Example

```
HTTP/1.1 200 OKIvin
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\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"
      }
    }
}
```

3.1. 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

Κe	Э у		Style	Value	Ĭ	Ĭ	₩	Ħ	HW	HM	PZ1	ί̈́Ξ	HG	PZ4	PZ2
Re	eque	est							П			T			
	Со	mmand	String	GetStreamingSettings	✓	✓	✓	✓	√	✓ 、	1 1	/ /	✓	✓	√
	Se	ssionID	String	(Session ID in cookie.)	✓	✓	✓	✓	√	✓ 、	1 1	/ /	✓	✓	√
	Pa	rams							П			T			
		Stream	Integer	0: First, 1: Second	_		_	_	_		-1-	- -	-	✓	/

```
Example

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

```
Example(In case of PZ400/200)

{

"Request" : {

"Command" : "GetStreamingSettings" ,

"SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3"

"Params" : {

"Stream" : 0

}
```

Res	ponse
-----	-------

	Style	Value	HM65	99WH	HM8x	HM20	HM25	HM28	LS300 PZ100	HC90	HC5x(
ponse				T							
Requested	String	GetStreamingSettings	✓	✓	√	✓	✓	✓ 、	/ /	✓	✓
Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	✓ 、	/ /	✓	✓
Data				Ī	Ī						
Stream	Integer	0: First, 1: Second	Τ-	T-	Τ-	-	-	- [-		_	-
Resolution	String	"3840x2160" (PZ400: First stream only)	Τ-	T-	Τ-	-	-	- [-		_	$-\Gamma$
		"1920x1080" (PZ400/200: First stream only)	✓	✓	. ^	✓	✓	✓ 、	/ /	✓	✓
		"1440x1080"	Τ-	T-	Τ-	-	-	- [-		_	$\exists T$
		"1280x720" (PZ400/200: First stream only)	✓	✓	. ^	✓	✓	✓ 、	/ /	✓	✓
		"1024x576" (PZ400/200: First stream only)		<u> </u>	-	-	-	- -		_	\exists
		"720x480"	✓	✓	_	✓	✓	✓ 、	/ -	✓	✓
		"720x576"	✓	✓		✓	✓	✓ 、	/ -	✓	✓
		"720x408"		_	-	_	-	_ [-		_	-
		"640x480"	Τ-	<u> </u>	T-	_	-	_ -		_	\exists
		"640x360"	Τ-	√	. <	✓	✓	✓ 、	/ /	✓	√
		"480x320"	1-	1-	1-	-	_	_ -		_	
		"480x270"	-	† -	1-	-	_	_ -	_ _	_	寸
		"320x240"	Τ-	† -	1-	-	_	_ -		-	=
		"1080x1080"	 	1-	1_	1_	_	_ -		_	/
		"606x1080"	 	1-	1_	1_	_	_ -		_	7
		"720x720"	+-	†=	.†_	1_1	1	/ -		_	
		"404x720"	Τ-	† -	1-	-	√	√ -	_ _	_	1
Framerate	String		-	√		√	√	✓ 、	/ /	√	1
		"422_10bit_60p" / "422_10bit_50p"	Τ-	† -	1-	_	_	_ -		1	1
		Character string for Framerate value "1" – "60"	 	1-	1_	1_	_	_ -		_	Ì
Bitrate	String		1	1-	1_	1_	_	_ -		_	丁
Z.i.i.dio		"0.3M"	1	1		1	1	, ,	1 1	1	/
		"0.8M"	/	1/	- /	./	<i>√</i>	-	/ /	./	-/
		"1.5M"	1	1/	1	1	./	_	/ /	./	./
		"2.5M"	1	1	+-	1	<i>√</i>	./ .	/ /	Ė	Ť
		"3.0M"	1./	1/		1	./	/ 、	/ /	./	./
		"5.0M"	1./	1/		./	./	./ .	/ /	./	-/
		"8.0M"	1/	1/	1	./	./	./ .	/ /	./	-/
		"10M"	1	-/		1	./	./	/ /	i -	Ť
		"12M"	1	-/		./	./	./	/ /	./	./
		"16M"	Ť	Ť	±.	Ľ	Ť	_ -	/	./	<u>,</u>
		"20M"	+-	 	.†-	1_1	_		/	./	<u>,</u>
		"24M"	+-	+	+-	1_1	_	_†.		./	·/
		Character string for Bitrate bps value "32K" – "61440K" (This parameter is valid only H.264/H.265 mode.)	+=	E	ŧ	H	_	_	╫	_	_
Qfactor	String		一	ŧ	ŧ	H]	_+	$\pm \bar{\pm}$	H	\exists
EncodeProtocol	String	"H264" / "H265" / "MJPEG"	+-	E	£	H	=	_	#	Н	_
IKeyFrameInterval	-	Value of I Key Frame Interval "2" — "60"	+-	干	干	H	_	_ -	₩	H	_
			干	干	干	H	-		+-	H	_
BitRateControl	String	,	- -		<u> </u>	_ _	<u>-</u>	- - - -	- -]	

^{*} Framerate "422_10bit_50p" and "422_10bit_50p" are effective only if optional adaptor "KA-EN200" is attached on 'GY-HC900' and 'GY-HC5x0'.

Example

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

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

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

Example (In case of MJPEG for PZ400/200)

```
{
"Response": {
"Requested": "GetStreamingSettings",
"Result": "Success",
"Data": {
"Stream": 0,
"Resolution": "1920x1080",
"Framerate": "60i",
"Qfactor": "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	HM65	ЭЭМН	HM8	JANE Z	HM28	LS30	PZ10	НС90	HC5x	PZ20
Red	quest					П		T			П		\Box
	Command	String	SetStreamingResolution	✓	✓	✓ 、	✓ _∨	/ /	. ^	✓	✓	√ v	/ /
	SessionID	String	(Session ID in cookie.)	✓	/	✓ 、	/ 、	/ /	√	✓	✓	√ v	/ /
[Params										П		
	Stream	Integer	0: First, 1: Second	-	-		- -		-		_		/ /
	Resolution	String	"3840x2160" (PZ400: First stream only)	-	-		- -		-		_		/ -
			"1920x1080" (PZ400/200: First stream only)	✓	/	✓ 、	√ v	/ /	√	✓	✓	√ v	/ /
			"1440x1080"	-	-		- -		-	-	_		
			"1280x720" (PZ400/200: First stream only)	✓	/	✓ .	✓ _∨	/ /	√	✓	✓	✓ v	/ /
			"1024x576" (PZ400/200: First stream only)	-	1		- -	-	-	- -	_		/ /
			"720x480"	√	^	✓ .	✓ _∨	/ /	√	- -	✓	√ v	/ /
			"720x576"	√	^	✓ .	✓ _∨	/ /	√		✓	✓ -	
			"720x408"	-	1	<u> </u>	-1-	-	T-	- [- [<u> </u>		/ /
			"640x480"	-	1		- -	-	-	- [- [<u> </u>		/ /
			"640x360"	-	/	✓ .	✓ _∨	/ /	√	✓	✓	✓ ✓	/ /
			"480x320"	-	1		- -	-	-	- -	_		/ /
			"480x270"	√	-		- [-	-1-	-	-	_	_ -	
			"320x240"	_	-		- [-	-1-	-	- [- [<u> </u>		/ /
			"1080x1080"	-	1		- -	-	-	- -	_	✓ -	
			"606x1080"	_	_	_ [-	- -	-1-	-	1-1	-	✓ -	- -
			"720x720"	_	_	_ [-	- ,	/ /	_	1-1	_	✓ -	- -
			"404x720"	_	_		- ,	/ /	-	1-1	-	√ -	- -

50 60 60 60 60 60 60 60 60

Example

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

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

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

Response

K	ey	Style	Value	HM650	099MH	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZ200
R	esponse						\prod		П			Т		П
	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

Ke	y		Style	Value	HM650	099WH	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC900	PZ400	PZ200
Re	que	est												
	Co	mmand	String	SetStreamingFramerate	-	✓	√	√ v	/ /	√	✓	✓ .	/ /	· 🗸
	Ses	ssionID	String	(Session ID in cookie.)	-	✓	√	V V	√ √	✓	✓	✓ .	/ /	· 🗸
	Par	rams							T	Ī		П		
		Stream	Integer	0: First, 1: Second	-	-	-[- -	- -		-		- 🗸	
		Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" /	-	✓	✓	V V	/ /	✓	✓	✓ .	/ -	- [-
				"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'.

```
Example

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

```
Example(In case of PZ400/200)

{

"Request" : {

"Command" : "SetStreamingFramerate" ,

"SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,

"Params" : {

"Stream" : 0 ,

"Framerate" : "30"

}

}
```

Response

Э	Key	Style	Value	Ĭ	Ĭ	Ψ̈́	M I	Ĭ	LS3	PZ1	2 5	PZ4	PZ2
	Response				П		П		\Box				
	Requested	String	SetStreamingFramerate	_	✓	✓	✓ .	√ √	√	✓	√ v	/ /	√
	Result	String	(Result of command processing.)	1	✓	✓	✓ .	√ √	✓	✓	√ v	/ /	√

```
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 -t reboot the camcorder unlike 'Set streaming resolution' command.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HIMIZOU 1 S300	PZ100	HC900	HC5x0 PZ400	PZ200
Requ	uest												
	ommand	String	SetStreamingBitrate	√	✓	✓	✓	✓ 、	√ √	/ /	√	√ √	√
S	essionID	String	(Session ID in cookie.)	✓	✓	✓	✓	√ v	/ v	/ /	√	√ √	√
Р	arams				m	Ħ		T			Ħ		\Box
	Stream	Integer	0: First, 1: Second	-	-	1-1		-1-	_ -	- -	<u> </u>	- 🗸	V
	Bitrate		"0.2M"	√	Ι='	1-1		=†-	_ -	- -	1-1	_ _	
			"0.3M"	√	√	√	√	√ ·	/ v	/ /	V	√ -	1-1
			"0.8M"	√	√	√	√	✓ ·	/ v	/ /	V	√ -	
			"1.5M"	√	√	1	√	/ 、	/ v	/ /	V	√ -	
			"2.5M"	√	√	1	√	/ 、	/ v	/ /	1_1	_ _	1-1
			"3.0M"	√	√	1	1	✓ _∨	/ v	/ /	V	√ -	
			"5.0M"	√	√	1	√	/ 、	√ √	/ /	V	√ -	
			"8.0M"	√	√	1	√	/ 、	/ v	/ /	V	√ -	
			"10M"	√	√	1	√	/ 、	/ v	/ /		_ _	
			"12M"	√	√	1	√	/ 、	/ v	/ /	V	√ -	1-1
			"16M"	_	_	1-1		_ -	_ _	- 🗸	1	√ -	
			"20M"	_	_	-		#-	_ _	- 1	1	√ -	1=1
			"24M"	-	_	1-1	_	_ -	_ _	-1-	V	√ -	1
			Character string for Bitrate bps value "32K" – "61440K" (This parameter is valid only H.264/H.265 mode.)	_	_	1-1		_ -	_ _			- 1	1
	Qfactor	String	Character string for quality factor value "1" – "99" (This parameter is valid only MJPEG mode.)	_	_	1-1		_†-	_ _			_ √	_
	BitRateControl	String	"CBR" / "VBR"	_	_	_		_ -	_ -	- -		- 1	—

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

Example

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

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

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

Response

K	эу	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900	PZ400	PZ200
R	esponse												T	
	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

Κe	ey	Style	Value	₹ :	₹ :	<u>₹</u> ?	₽₽	₹	ĽŠ	ΡŽ	ב ב	Ę Ž	ΡΖ
Re	equest							\square			T		
	Command	String	AvailableStreamingResolutionSettings	√	√	✓ .	√ √	✓	✓	✓	√ \	/ /	√
	SessionID	String	(Session ID in cookie.)	√	√	✓ .	√ √	✓	✓	✓	√ \	/ /	√
	Params												
	Stream	Integer	0: First, 1: Second	_	_		_ [_	-	_		-1-	- 🗸	√

8x0 225x 5x0

Example(In case of PZ400/200) { "Request" : { "Command" : "AvailableStreamingResolutionSettings" , "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" "Params" : { "Stream" : 0 } }

Key	Style	Value		9МН	9МН	HM8	HM2	HM2	LS3(PZ1(HC9	PZ4	PZ2(
Response													
Requested	String	AvailableStreamingResolutionSettings		✓	>	✓ 、	/ /	′ ✓	✓	✓	√ v	/ /	✓
Result	String	(Result of command processing.)		✓	>	✓ 、	/ /	′ ✓	✓	✓	√ v	/ /	✓
Da <u>ta</u>													
Stream	Integer	0: First, 1: Second		_	_		_ _	- -	_		_ -	- 🗸	✓
AvailableResolution				✓	✓	✓ ,	/ /	· ✓	✓	✓	√ v	/ /	✓
3840x2160	Integer	0 : unselectable , 1 : selectable (PZ400: First stream only)		_	_		_ _	- -	_		_ -	- 🗸	
1920x1080	Integer	0 : unselectable , 1 : selectable (PZ400/200: First stream only)		✓	✓	✓ ,	/ /	· ✓	✓	✓	√ v	/ /	✓
1440x1080	Integer	0 : unselectable , 1 : selectable		_	_		_ _	- -	_		_ -	- -	
1280x720	Integer	0 : unselectable , 1 : selectable (PZ400/200: First stream only)		✓	✓	✓ 、	/ /	√	✓	✓	√ v	/ /	✓
1024x576	Integer	0 : unselectable , 1 : selectable (PZ400/200: First stream only)		_	_		_ _	- -	_	_		- 🗸	✓
720x480	Integer	0 : unselectable , 1 : selectable		✓	✓	✓ 、	/ /	√	✓		√ v	/ /	✓
720x576	Integer	0 : unselectable , 1 : selectable		✓	✓	✓ 、	/ /	√	✓		√ v	/ -	_
720x408	Integer	0 : unselectable , 1 : selectable		_	_		_ _	- -	_			- 🗸	✓
640x480	Integer	0 : unselectable , 1 : selectable		_	ı		-1-	- -	_	_		- 🗸	✓
640x360	Integer	0 : unselectable , 1 : selectable		_	>	✓ 、	/ /	√	✓	✓	√ v	/ /	✓
480x320	Integer	0 : unselectable , 1 : selectable		_	ı		- -	- -	_	_		- 🗸	✓
480x270	Integer	0 : unselectable , 1 : selectable		✓	ı	-	- -	- -	_	_			_
320x240	Integer	0 : unselectable , 1 : selectable		_	ı		- -	- -	_	_		- 🗸	✓
1080x1080	Integer	0 : unselectable , 1 : selectable		_	ı		- -	- -	_	_	- ,	/ –	_
606x1080	Integer	0 : unselectable , 1 : selectable		_	_	ıΞĪ	- -	-	_			/ –	
720x720	Integer	0 : unselectable , 1 : selectable		_	1	- -	- 🗸	√	_			/ –	
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 }
    }
}
```

```
"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

еу	Style	Value	HM6	НМ6	HM8	HIMZ!	HM28	LS30	PZ10	HC90	HC5X PZ40	PZ20
equest				ī						П		
Command	String	AvailableStreamingFramerateSettings	-	√	✓ .	1 1	√	✓	✓	✓	√ ✓	· 🗸
SessionID	String	(Session ID in cookie.)	_	√	√ ·	1 1	√	✓	✓	✓	1 1	· 🗸
Params				ī						П		T
Stream	Integer	0: First, 1: Second	_	-		- -	-	-	-	-1	- <	
Resolution	String	"3840x2160" (PZ400: First stream only)	_	-		- -	-	-	-	-1	- <	·T-
		"1920x1080" (PZ400/200: First stream only)	_	✓	✓ .	1 1	√	✓	✓	✓	✓ ✓	· _/
		"1280x720" (PZ400/200: First stream only)	_	✓	✓ .	1 1	√	✓	✓	✓	1 1	· _/
		"1024x576" (PZ400/200: First stream only)	_	-	_ ·	- -	-	-	-		- 1	· _/
		"720x480"	_	✓	√	1 1	· _/	✓	-	✓	1 1	· _/
		"720x576"	_	✓	√	1 1	· _/	✓	-	✓	✓ -	- [–
		"720x408"	_	-		-1-	_	-	-	_	- 🗸	/
		"640x480"	-	-	$-\Gamma$	- [-	-	-	-	- 1	- 1	7
		"640x360"	_	√	✓ .	1 1	√	✓	✓	√	1 1	7
		"480x320"	_	-	$\neg \Gamma$	-T-	-	-		-1	- 1	7
		"320x240"	_	-		-1-	-	-		-1	- 1	7
		"1080x1080"	_	-		-1-	_	-	-	_	✓ -	- [-
		"606x1080"	_	-		- -	-	-	-	_	✓ -	·T=
		"720x720"	_	_	_	- 1	√	-	-	_	✓ -	- -
		"404x720"	_	-		- 🗸	· 🗸	_	-	_	✓ -	

```
Example

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

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

Res	oonse
-----	-------

y	Style	Value	HM650	099WH	HM8x0	HM200	HM25x	HM280	LS300 PZ100	НС900	HC5x0	PZ400
sponse					\Box	ĪΤ		T	Т	T	ſΠ	_
Requested	String	AvailableStreamingFramerateSettings	—	✓	✓	✓	✓	✓ .	√ ✓	′ ✓	✓	√
Result	String	(Result of command processing.)	—	✓	✓	✓	✓	✓ .	√ ✓	′ ✓	✓	,
Data						П		П		\Box		
Stream	Integer	0: First, 1: Second	—	_	-	-	_	- -		. [=]	-	٠
Resolution	String	"3840x2160" (PZ400: First stream only)	_	_	_	-	_	_ [.[_	-	
		"1920x1080" (PZ400/200: First stream only)	T-	✓	√	√	√	1	/ /	_	√	
		"1280x720" (PZ400/200: First stream only)	T -	✓	√	√	√	/	/ /	_	√	
		"1024x576" (PZ400/200: First stream only)	_	_	1-1	ī	=	_	_ _	. [_]		
		"720x480"	_	√	1	√	√	√	√ -	. 🗸	1	
		"720x576"	1-	√	V	√	√	√	√ -	. 🗸	√	
		"720x408"	1-	_	1-1	ī — Ī	=	_		17		
		"640x480"	1_	_	1-1	ī	丁	士		.†=		
		"640x360"	1_	1	1	1	/	1	1/		/	
		"480x320"	1_	_	1-1	Ė	Ì	Ì	===	ĦŤ.	Ė	
		"320x240"	1_	_	1_1	T	士	士		.†=		
		"1080x1080"	1_	_	1-1	ī	丁	士		.†=	/	
		"606x1080"	1_	_	1_1	T	士	士		.†=	1	
		"720x720"	Τ_	_	1_1		1	1		.†='	1	
		"404x720"	Τ_	_	1_1	ī	1	· /		.†='	1	
AvailableFramerate					T	T	Ť	Ť	_	+	Ħ	
60p	Integer	0 : unselectable . 1 : selectable	_	√	√	√	√	✓ .	√ √	1	1	
60i	Integer	0 : unselectable . 1 : selectable	1-	√	V	√	√	√	/ /	7	√	
30p	Integer	0 : unselectable , 1 : selectable	1-	√	V	√	√	√	/ /	7	√	
50p		0 : unselectable , 1 : selectable	1-	√	V	√	√	√	/ /	7	√	
50i		0 : unselectable , 1 : selectable	1-	√	V	√	√	√	/ /	7	√	
25p		0 : unselectable , 1 : selectable	1-	√	V	√	√	√	/ /	7	√	
422 10bit 60p		0 : unselectable , 1 : selectable	1-	_	1-1	ī — Ī	=	_		. 🗸	√	
422 10bit 50p		0 : unselectable , 1 : selectable	1-	_	1-1	ī	=	_		. 🗸	√	
max 25	_	0 : unselectable , 1 : selectable	1-	_	1-1	ī	寸	#		1=		
max 30	_	0 : unselectable , 1 : selectable	1-	_	1-1	<u> </u>	寸	=		1=		
max 50	_	0 : unselectable , 1 : selectable	1-	<u> </u>	\Box	ᆿ	寸	= -		1=	口	
max 60	_	0 : unselectable , 1 : selectable	1_	_	t	一	士		#	.†=	口	

^{*} 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 ,
            "25p" : 0
            "422_10bit_60p" : 0 ,
            "422_10bit_50p" : 0
            }
        }
    }
}
```

```
{
  "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

	Style	Value	-1M650	099WH	HM8x0	JM25v	1M280	-S300	>Z100	HC900	JC3X0	>Z400
uest				ŤΤ	Ť	1	Ť	T	Ē	ŤΤ	T	_
Command	String	AvailableStreamingBitrateSettings	✓	✓	✓ .	/ 、	/ /	′ √	✓	✓ .	✓ .	V
SessionID	String	(Session ID in cookie.)	✓	✓	✓ .	/ 、	/ /	′ √	✓	✓ .	✓ .	,
Params		,									T	
Stream	Integer	0: First, 1: Second	_	_		- -	-1-		-		_	,
Туре	String	"UDP" /	√	✓	✓ .	/ 、	/ /	′ √	✓	✓ .	✓ .	
7.		"UDPN" (PCR Jitter is -rmal) /	_	✓	✓ .	- -	-1-		-			
		"UDPL"(PCR Jitter is Low) /	_	✓	✓ .	- -	-1-		-			
		"TCP" /	√	_	- -	_ -	-1-	- -	1-1	✓ .	1.	
		"RTSP" /	√	✓	✓ .	/ 、	/ /	′ √	√	✓ .	/	
		"ZIXIM"(Zixi Medium/Minimum/High Latency) /	1	1	✓ .	/ 、	/ /	′ ✓	1	1	/ .	
		"ZIXIL"(Zixi Low Latency) /	/	1	✓ .	/ 、	/ /	′ ✓	1	1	/ .	
		"ZIXI" /	_	_	_		- -	1-	Ė	1	/	
		"RTMP" /	/	1	✓ .	/ 、	/ /	′ ✓	1	1	/	
		"RTMPS" /	_	_	_	- 1	/ /	, <u> </u>	1	1	/	
		"RTP" /	1	1	1.	/ \	/ /	, ,	1	1	<u>.</u>	
		"Facebook" /	_	_	<u> </u>	- \	/ /	, <u> </u>	Ė	Ì	/ .	
		"YouTube" /	_	_	_ .	_†_	_†_	- -	1-1	=	<u>.</u>	
		"SRT"	_	_	_ .	_†-		- -	1-1	1	<u>:</u>	
Resolution	String	"3840x2160" (PZ400: First stream only)	_	_	_ .			- -	1-1	İ	-†	
110001411011		"1920x1080" (PZ400/200: First stream only)	_	1	1.	/ 、	/ /	, ,	1	1	7	
		"1280x720" (PZ400/200: First stream only)	_	1	<i>y</i> .	/ \	/ /	, ,	1		/	
		"1024x576" (PZ400/200: First stream only)	_	_	<u> </u>	<u> </u>	_†_	Ť	Ė	İ	-†	
		"720x480"	_	./	✓ .	/ 、	/ /		1-1	✓ .	./	-
		"720x576"	_	./	./ .	/ .	/ /	+-	1-1	-/	7	
		"720x408"	_	_	_ .	_ `	Ť	. T_	1-1	Ť	Ξ	
		"640x480"	_	_		#-		: _	1-1	\pm	_	
		"640x360"	_	./	./ .	/ 、	/ /	, ,	./	./	./	
		"480x320"	_	_	_ .	_ `	Ť	. T_	Ť	Ť		
		"320x240"	_	_		#-	#=	: _	1-1	\pm	_	
		"1080x1080"		_		#		. _	1_1	\pm	7	-
		"606x1080"		_		#		. _	1_1	\pm	7	-
		"720x720"		_		#	/ ./	, ₋	1_1	\pm	7	-
		"404x720"			╁.		/ /	, _	H		7	-
Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" /			╁.		+	ΗĒ	_		v / -	-
Tamolato	29	"422_10bit_60p" / "422_10bit_50p"			╁.	#	#	ΗĒ	_		v / -	-
		Character string for Framerate value "1" – "60"			-+	+	+	+	+	<u> </u>	+	_

^{*} 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

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

```
Example(In case of PZ400/200)

{

"Request" : {

"Command" : "AvailableStreamingBitrateSettings" ,

"SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3",

"Params" : {

"Stream" : 0 ,

"Type" : "RTSP",

"Resolution" : "1920x1080" ,

"Framerate" : "30"

}

}
```

<i>I</i>	Style	Value	HM650	HM660	HM200	HM25x	HM280	-8300	22100	HC5x0	PZ400
sponse			Ť	Ť	T	ΤŤ	T		ľΤ	T	T
Requested	String	AvailableStreamingBitrateSettings	√	√	/ /	. ^	√	√	1	/ /	
Result		(Result of command processing.)	√	√	/ /		√	√	1	/ /	/
Data		(<u>9</u> /)				Ť	Ť		Ħ		Ť
Stream	Integer	0: First, 1: Second	_	_	_ -		_	_	_	-1-	
Туре		"UDP" /	✓	✓	/ /	· _/	✓	√	✓	/ /	1-
		"UDPN" (PCR Jitter is -rmal) /	_	✓	/ -		_	_	_	-1-	:T-
		"UDPL"(PCR Jitter is Low) /	_	✓	/ -		_	_	_	-1-	1-
		"TCP" /	✓	_	_ -		_	_	_	/ /	1-
		"RTSP" /	✓	✓	/ /	· _/	✓	√	✓	/ /	Ŧ,
		"ZIXIM"(Zixi Medium/Minimum/High Latency) /	✓	✓	/ /	· _/	✓	√	✓	/ /	1
		"ZIXIL"(Zixi Low Latency) /	√	✓	/ /		V	✓	✓	/ /	1
		"ZIXI" /	_	_		-	-	_		/ /	Ť.
		"RTMP"	√	√	/ /		√	√	1	/ /	Ŧ
		"RTMPS" /	_	_		. 🗸	√	_	1	/ /	Ŧ
		"RTP" /	√	√	/ /		√	√	1	/ /	Ť.
		"Facebook" /	_	_		/	1	_		- 1	+
		"YouTube" /	_	_		1	Ť-	_		- 1	+
		"SRT"	_	_		-	-	_		/ /	Ť
Resolution	String	"3840x2160" (PZ400: First stream only)	_	_		-	-	_		_ _	. 🕇
		"1920x1080" (PZ400/200: First stream only)	_	1	/ /	/	1	/	1	/ /	+
		"1280x720" (PZ400/200: First stream only)	_	√ ✓	/ /	/	1	✓	1	/ /	Ť
		"1024x576" (PZ400/200: First stream only)	_	_		1	Ť-	_			Ť
		"720x480"	_	√	/ /		√	/		/ /	+
		"720x576"	_	1	/ /		1	· ✓	\vdash	/ /	+
		"720x408"	_	_		Ť	<u> </u>	_	_	- -	Τ.
		"640x480"	_		=1=	1=	1-	_		-1-	Τ.
		"640x360"	_	1	/ /	/	/	/	1	/ /	+
		"480x320"	_	_		1=	1-	_		-1-	1
		"320x240"	_	_		1-	 	_		_†_	. †
		"1080x1080"	_	_		1-	 	_		- 🗸	+
		"606x1080"	_	_		1-	 	_		- 🗸	+
		"720x720"	_	_			√	_		- 🗸	†-
		"404x720"	_	_		/	1	_		- 🗸	Ť.
Framerate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p" /	_	=1		Ť.	t-		√	/ /	1-
		"422_10bit_60p" / "422_10bit_50p"		=1	===	1-	1-		Ė	/ /	+
		Character string for Framerate value "1" – "60"		_	#	1_	1_			ÌĽ	+

ailableBitrate												
0.2M	Integer 0 : unselectable , 1 : selectable	,	/ -	- [-	- [-	- [-		T -	_	-	-	
0.3M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	√	✓	✓	✓	✓	
0.8M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	· 🗸	✓	✓	✓	✓	
1.5M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	√	✓	✓	✓	✓	
2.5M	Integer 0 : unselectable , 1 : selectable	-	- [-	- [-	- [-	- [-	Τ-	T -	_	-	-	
3.0M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	√	✓	✓	✓	✓	
5.0M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	√	✓	✓	✓	✓	
8.0M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	· 🗸	✓	✓	✓	✓	
10M	Integer 0 : unselectable , 1 : selectable	-	- [-	- [-	- [-	- [-	Τ-	T -	_	-	-	
12M	Integer 0 : unselectable , 1 : selectable	,	/ .	/ \	/ _	/ /	√	✓	✓	✓	✓	
16M	Integer 0 : unselectable , 1 : selectable	-	- [-	- [-	- [-	- [-		T -	✓	✓	✓	
20M	Integer 0 : unselectable , 1 : selectable	-	- [-	- [-	- [-	- [-		T -	✓	✓	✓	
24M	Integer 0 : unselectable , 1 : selectable	-	- [-	-1-	- [-	- [-		T-	_	✓	✓	
32K-61440K	Integer 0 : unselectable , 1 : selectable	-	- -	- -	- [-	- [-	-	—	_	-	-	٠

^{*} 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": "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)
```

```
"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

K	ey	Style	Value	Ĭ	Ĭ	Ĩ	Ĭ	Ĭ	ES I	PZ1	Ϋ́	PZ4	PZ2
R	equest												
	Command	String	GetCurrentStreamingServerID	✓	✓	✓	✓	✓ 、	/ /	✓	√ v	/ -	_
L	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓ 、	/ /	✓	√ v	/ –	_

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

9	Key	Style	Value	Ĭ	¥	Ĭ	Ĭ	Ž Ž	LS3	PZ1	9	HC5 PZ4	PZ2
	Response												T
	Requested	String	GetCurrentStreamingServerID	✓	✓	✓	✓	✓ _∨	/ /	✓	✓	✓ -	- [–
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓ _∨	/ /	✓	✓	✓ -	- [–
	Data												T
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	>	✓	√ v	/ /	✓	√	✓ -	- [–]

```
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

K	Э у		Style	Value	Ĭ	Ĭ	₩	H	HW	LS3	PZ1	Ω̈́	HC5	PZ4
R	eques	t				П								
	Com	nmand	String	SetCurrentStreamingServerID	✓	√	✓	✓	✓	√ √	/ V	✓	✓	
	Sess	sionID	String	(Session ID in cookie.)	✓	√	✓	✓	✓	√ √	/ V	✓	✓	
	Para	ams				П								
	II	D	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓ ✓	′ √	✓	✓	

550 330 200 200 000 000 330 000 000

```
Example

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

Response

Э	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	HC900	PZ400	PZZUU
	Response												٦
	Requested	String	SetCurrentStreamingServerID	✓	✓	✓	✓	/ /	′ √	✓	✓ 、	/ -	\exists
	Result	String	(Result of command processing.)	✓	✓	✓	✓	/ /	′ √	✓	✓ 、	/ -	\exists

Example

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

3.1.10. Get streaming server settings

Get streaming settings for each server ID.

Request

Key		Style	Value	9МН	ЭМН	HW8	HM2	HM2	HMZ	LS3(P71(HC9	HC5	PZ4(P72(1
Requ	uest													٦
С	ommand	String	GetStreamingServerSettings	✓	✓	✓	✓	✓	✓ .	√ \	/ /	✓	✓	7
S	essionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓ .	√ \	/ /	✓	✓	7
P	arams													1
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	\	✓	✓	✓	✓ .	√ \	/ /	✓		-1
	Туре	String	"RTSP" / "RTSP2" / "RTMP" / "RTMP2" / "RTMPS" / "RTMPS2" / "SRT" / "ONVIF" / "Multicast" / "NDI"	_	_	-	-	-		- -		-	✓ _∨	/

50 50 50 50 50 50 50 50 50

```
Example

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

```
Example(In case of PZ400/200)

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

/	Style	Value	9MH		HM2 HM2	HM2	HM2	LS3C	PZ10	HCS HC55	77.0	2
ponse												
Requested		GetStreamingServerSettings	✓	✓ .	√ ✓	✓	✓	✓	✓	√ √	/ .	,
Result	String	(Result of command processing.)	✓	✓ .	√ √	✓	✓	✓	√	√ √	Ί,	,
Data												
Alias		(A—ther name of server)	✓	/	√ ✓	✓	✓	✓	>	√ √	/ -	
Туре	String	"UDP" /	✓	✓ .	V V	✓	✓	✓	✓	√ √	⁄Τ-	
		"TCP" /	✓.	- [-	- -	- [-	_	-	-	√ v	Τ-	
		"RTSP" /	✓	✓ .	V V	✓	✓	✓	✓	√ v	⁄Τ.	,
		"RTSP2" /		- [-	-T-	- [-	-	-	П	-T-	-Т,	,
		"ZIXI" /	✓	✓ .	V V	✓	✓	✓	√	√ v	Τ-	
		"RTMP"	✓	✓ .	V V	✓	✓	✓	✓	√ √	Τ.	,
		"RTMP2"		- [-	-T-	- [-	-	-	П	-T-	-Т,	,
		"RTMPS" /		- [-	-T-		✓	-	√	√ v	⁄Τ.	,
		"RTMPS2" /		- [-	-T-	-T-	_	-	-	- -	-Т,	,
		"RTP" /	✓	✓ .	V V	✓	✓	✓	√	√ v	⁄Τ-	-
		"Facebook" /		- [-	-T-		✓	-	-	-	⁄Τ-	
		"YouTube" /		- [-	-T-	-T-	_	-	-	-	⁄Τ-	
		"SRT"		- [-	-T-	-T-	-	-	-	√ v	⁄Τ.	,
		"ONVIF"		- [-	-T-	-T-	_	-	-	-T-	-Т,	,
		"Multicast"		- [-	-T-	-T-	-	-	-	-T-	-Т,	,
		"NDI"		- [-	-T-	-T-	-	-	П	-T-	-Т,	,
Udp		(Selected by Type)							П		Т	
DstAddress	String	(IP address)	 ✓	/ .	√ √	✓	✓	✓	✓	√ √	1	
DstPort		(Port number)	 ✓	/ .	√ √	✓	✓	✓	✓	√ √	1	
PcrJitter	Integer	0:-RMAL, 1:LOW	-	✓ .	√ √	✓	✓	✓	_	-T-	-T-	
PcrMode	Integer	0:Standard, 1:Fast		_ -	-T-	T-		_	-	√ √	7 -	

Тср		(Selected by Type)					T	\exists	\Box	T	T	T	T
DstAddress	String	(IP address)	√	_		_	\exists	\exists	-	- ,	/ /	<i>'</i> –	-T
DstPort	Integer	(Port number)	√	_		\exists	╗	ᆿ	\exists	_ ,	/ /	<i>-</i>	. †
Rtsp		(Selected by Type)			Πİ	T	T	┪	T	_		T	Ť
DstPort	Integer	(Port number)	√	✓	√	√	√	✓	✓	✓ 、	/ /	, _\	1
StreamId	String	(Stream ID)	√	✓	√	√	√	√	✓	✓ .	/ /	, \	1
Username	String	(User name)	√	✓	√	√	√	√	✓	✓ .	/ /	, \	1
Password	String	(Password for RTSP/RTP)	√	✓	√	√	√	√	√	✓ .	/ /	, \	
Auth	Integer	0:OFF,1:ON	_	_		\exists	\exists	_	\exists		-1-	- 🗸	
Zixi		(Selected by Type)				\exists	T	寸	\exists	_	\top	1	_
DstAddress	String	(IP address)	√	✓	√	√	√	√	√	✓ .	/ /	<i>-</i>	
DstPort		(Port number)	√	✓	√	√	√	√	√	✓ .	/ /	<i>'</i> –	
StreamId	String	(Stream ID for ZIXI)	1	1	/	/	√	1	1	<i>y</i> ,	/ /	/ _	-
Password		(Password for ZIXI)	√	✓	✓	√	√	<i></i>	✓	<i>y</i> ,	/ /	/ _	-
Latency		0:Low, 1:Medium, 2:Minimum(Zixi OFF), 3:High	√	√	✓	√	√	<i></i>	√		/ /	/ _	-
PcrMode		0:Standard, 1:Fast	_	1	Ħ	Ì	Ì	Ħ	Ì		/ /	/ _	-
AdaptiveBitrate		0:OFF, 1:ON	√	1	√	√	√	1	√	_	/ /	/ _	-
Rtmp		(Selected by Type)	Ė	_	Ħ	Ì	Ť	Ť	Ť	Ť	+	+	-
DstUrl	String	(Network URL for Delivery)	√	./	√	√	√	./	./	./ .	/ /	/ /	-
StreamKey	String	(Key for Delivery)	√ ✓	1	1	√ ✓	√	<u>,</u>	√ ✓	<i>y</i> ,	/ /	/ /	
Status	_	0:OFF, 1:ON	_	_	Ť	Ť	Ť	Ť	Ť	<u> </u>	Ť	- 	
Video		0:Disable, 1:Enable		_		\exists	⇉	ᆿ	\exists	_		- 	
Audio		0:Disable, 1:Enable		_		\exists	寸	╗	寸			- 1	-
Rtmps	- 3	(Selected by Type)			H	\dashv	7	十	\dashv	-	+	Ť	٠
DstUrl	String	(Network URL for Delivery)		_		\exists	√	./	\exists	✓ 、	/ /	/ /	
StreamKey		(Key for Delivery)		_		\exists	√ ✓	./	\exists	./ .	/ /	/ ./	
Status		0:OFF, 1:ON		_		=	_	Ť	_	Ť.	Ť	<u> </u>	
Video		0:Disable, 1:Enable	H	_	H	\exists	\exists	Ⅎ	∃	=			,
Audio		0:Disable, 1:Enable	H	_	H	\exists	\exists	Ⅎ	∃	=		/	,
Rtp	ogo.	(Selected by Type)	H		H	\exists	\exists	\dashv	\exists	=	┯	-	٠
DstAddress	String	(IP address)		,	√	_	1	_	1	_	/ /	+	
DstPort		(Port number)	H	·	✓ ✓	√ √	√ √	- /	√ √	\	/ /	/-	٠
PcrMode			H	_	H	_	_	$\stackrel{\checkmark}{+}$		-+	/ /	干	٠
Smpte2022Fec		0:OFF, 1:ON	=	_	_	_ ✓	-	_	_		/ /	_ _	-
FecMatrixL	_	4 - 20	=	V	✓ ✓	✓ ✓	✓ ✓	<u> </u>	√ √		/ /	/ =	-
FecMatrixD	_	4 - 20 420	=	√	✓ ✓	√ √	√ √	- /	√ √		/ /		-
Srt	integer	(Selected by Type)	=	V	\vdash	_	_	_	_	÷	/ 	干	-
	String	(IP address)			\vdash	\dashv	\dashv	\dashv	\dashv	+	/ /	/ /	-
DstAddress DstPort		(Port number)	=	_	H	\dashv	극	극	극		/ /		-
	String		=	_	H	\dashv	극	극	극	_	_	′ √	-
StreamId ConnectionMode	_	(Stream ID for SRT) 0: Caller, 1: Listener, 2: Rendezvous	=	_	H	\dashv	井	극	극		/ /		-
			=	_	H	\dashv	井	극	극		· · ·		-
BandwidthOverhead		5 - 100 20 - 8000	=	_	H	\dashv	井	극	극	- `	/ /		-
Latency				_	Н	\dashv	_	그	그	_	4		-
Encryption		0: Off, 1: AES-128, 2: AES-192, 3: AES-256	_	_	믁	=	_	긔	그	_	/ /		-
FEC		0: Off, 1: 10x10, 2: 8x8, 3: 6x6	_	_	듸	그	그	그	井		/ /		-
AdaptiveBitrate		0:OFF, 1:ON	H	_	ᆸ	ᆜ	ᆜ	긔	긔		/ /	丰	
PcrMode		0:Standard, 1:Fast	니	_	ᆸ	_	듸	긔	긔		/ /	丰	
Passphrase		ASCII 10-79 character	ᆸ	_	ᆸ	ᆜ	ᆜ	긔	긔	\	/ /	′ √	
Status	Integer	0:OFF, 1:ON	ᆸ	_	ᆸ	ᆜ	ᆜ	긔	긔	ᆦ	ᆂ	- ✓	_
Onvif		(Selected by Type)	Ш		Ш		ᆜ		\dashv	_	丄	丄	_
Status		0:OFF, 1:ON	_	_		ᆜ	ᆈ	ᆜ	ᆜ	ᅶ	ᆂ	. 🗸	
Auth	Integer	0:OFF,1:ON	l – l	_	ı — İ	. – I	_	-	-	- -	- -	- 🗸	÷

Mu	ılticast		(Selected by Type)											
	Status	Integer	0:OFF, 1:ON	-	_	_	-	-	-	-		- -	✓	√
	DstAddress	String	(IP address)	_	_	-	_	-	-	-	-	- -	✓	✓
	DstPort	Integer	(Port number)	_	_	-	_	-	-	-	-	- -	✓	✓
Nd	i		(Selected by Type)											
	DeviceName	String	(text)	-	_	-	-	-	-	-	- -	- -	✓	✓
	GroupName	String	(text)	-	-	-	-	-	-	-[_ [-	-	✓	✓

Example

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

```
{
  "Response": {
  "Requested": "GetStreamingServerSettings",
  "Result": "Success",
  "Data": {
  "Type": "RTSP",
  "Rtsp": {
  "DstPort": 6504
  "StreamId": "1",
  "Username": "user",
  "Password": "abcde",
  "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	HMZ5X	1 S300	PZ100	HC900	HC5XU PZ400	PZ200
Request				П								
Command	String	SetStreamingServerSettingsUDP	^	✓	✓	✓ -	✓ \	/ /	′ ✓	√ .	√ -	_
SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	√ \	/ /	′ √	√ .	√	_
Params				П								
ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	^	✓	✓	√	√ \	/ /	′ √	√	√ –	T-1
Alias	String	(A—ther 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	HW6	HM6	₩ H	HWZ		S33	PZ1(ESH ESH ESH	PZ4(PZ2(
	Response													
	Requested	String	SetStreamingServerSettingsUDP	✓	✓	✓	✓ .	/ 、	/ /	/ /	✓ v	· —	_	
	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	9МН	HM6	HW8	HM2	HM2	rs30	PZ1(HC9	PZ4	PZ2(
Requ	est												
Co	ommand	String	SetStreamingServerSettingsTCP	√	_	-		- [–	_	-	✓ .	√ -	-
Se	essionID	String	(Session ID in cookie.)	√	-	-		- [-	_	-	✓ .	✓ -	-
Pa	arams				П							\Box	
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	√	ī	-		- [–	-	-	✓ .	√ -	-
	Alias	String	(A—ther name of server)	√	ī	-		- [–	-	-	✓ .	√ -	-
	DstAddress	String	(IP address)	√	-	-		- [–	-	-	✓ .	√ -	-
	DstPort	Integer	(Port number)	√	-	-		- [-	<u> </u>	-	✓ .	√ -	-

350 380 380 380 380 380 380 380 380 380

Example

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

K	ey	Style	Value	Ĭ	Ĭ	Ĩ	ΣΞ	Ĭ	LS3	P21	Ä	PZ4 PZ2
R	esponse											
	Requested	String	SetStreamingServerSettingsTCP	✓	-	-		-		- 🗸	′ ✓	
	Result	String	(Result of command processing.)	✓	_	-	- -	_	_	- <	′ ✓	

```
Example

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

3.1.13. Set streaming server settings(RTSP/RTP)

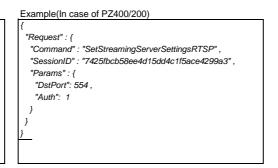
Set streaming settings for each server ID.

Request

Key		Style	Value	HM6	HM6	HM8 HM2	HM2	НМ2	TS3C	PZ10	HC9 HC5	PZ4(PZ20
Req	uest				П							\Box	
(Command	String	SetStreamingServerSettingsRTSP	✓	✓	√ √	√	✓	✓	✓	√ ✓	_	✓
5	SessionID	String	(Session ID in cookie.)	✓	✓	√ √	√	✓	✓	✓	√ ✓	_	✓
F	arams				П							\Box	
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	√	✓ ✓	√	✓	✓	✓	√ ✓	′ –	_
	Alias	String	(A—ther 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"
        }
    }
}
```



Э	Key	Style	Value	эмн	99WH	HM8	HM20	HM28 HM28	LS30	PZ10	НС9	HC5y PZ40	PZ20
	Response												
	Requested	String	SetStreamingServerSettingsRTSP	^	✓	✓	✓	√ √	′ √	✓	✓	√ √	1
	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	099WH	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
Requ	est													
Co	ommand	String	SetStreamingServerSettingsZIXI	✓	✓	✓	✓	✓	✓	✓	✓	√ √	1-	-
Se	essionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	√	✓ -	√ √	· -	_
Pa	arams							П	П	П				
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓	✓	✓	✓	✓	√ √	· —	_
	Alias	String	(A – ther 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	✓	✓	✓	✓	✓	✓	✓	✓ .	V V	· _	_
	PcrMode	Integer	0:Standard, 1:Fast	_	-	_	_	_	-	-		1 1	· _	_
	AdaptiveBitrate	Integer	0:OFF, 1:ON	✓	✓	✓	✓	✓	✓	✓	✓	√ ✓	_	_

^{*} High Latency of Type is effective in 'GY-HM660', 'GY-HM200', 'GY-HM25x', '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		Value	HW6	HW6	HW8	HM2	HM2	HWZ	PZ1(65H	HC5	P24(1	
Ī	Response													1
	Requested	String	SetStreamingServerSettingsZIXI	√	✓	✓	✓	✓	✓ .	/ /	. <	✓ .	_ [-	-]
	Result	String	(Result of command processing.)	✓	✓	✓	√	✓	✓ .	/ /	. <	✓ .	- [-	-7

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	ЖH	HWE	₩	M N	I N	LS3	PZ1	HC9	PZ4	PZ2
Requ	uest												
С	ommand	String	SetStreamingServerSettingsRTMP	√	✓	✓	✓ 、	/ /	/ V	1	✓ .	√ √	✓
S	essionID	String	(Session ID in cookie.)	√	✓	✓	✓ 、	/ /	/ V	1	✓ .	√ √	✓
Р	arams												П
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	✓	✓	✓	✓ 、	/ /	/ /	· 🗸	✓ .	√ -	_
	Alias	String	(A – ther name of server)	√	✓	✓	✓ 、	/ /	√ √	. 🗸	✓ .	√ -	
	Stream	Integer	0: First, 1: Second	-		-		- -	-	- -	- -	- 🗸	✓
	DstUrl	String	(Network URL for Delivery)	√	✓	✓	✓ 、	/ /	/ /	1	✓ .	√ √	✓
	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	_	_	[- [-1-	- -	- -		- 🗸	✓
	Audio	Integer	0:Disable, 1:Enable	_	-	-		- -	-	-	- -	- 🗸	✓

550 560 500 500 500 600 600

```
Example

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

```
Example(In case of PZ400/200)

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

K	ey	Style	Value	Ĭ	Ĭ	Ĩ	ΪÌ	Ì	LS3	PZ1	9 9	PZ4	PZ2
R	esponse											\Box	П
	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	HW6	HM6	HM8	HM2	HM2	LS30	PZ10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PZ40	PZ20
Requ	uest												
Ċ	ommand	String	SetStreamingServerSettingsRTMPS	_	-		- 🗸	√	-	✓	V V	✓	✓
S	essionID	String	(Session ID in cookie.)	-	_		- 🗸	✓	-	✓	V V	✓	✓
P	arams						T	\square			П		
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	-	-		- 🗸	✓	-	✓	√ √	-	_
	Alias	String	(A—ther 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	-	-		- -	_	-	-		✓	✓

550 560 500 500 500 600 600 600

Example

{

"Request": {

"Command": "SetStreamingServerSettingsRTMPS",

"SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",

"Params": {

"ID": 1,

"Alias": "Server1",

"DstUrl": "rtmps://xxxx.xxxx.xxxx.com/play",

"StreamKey: "livestreaming"

}

}

```
Example(In case of PZ400/200)

{

"Request" : {

"Command" : "SetStreamingServerSettingsRTMPS" ,

"SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,

"Params" : {

"Stream" : 0 ,

"DstUrl": "rtmps://xxxx.xxxx.xxxx.com/live" ,

"StreamKey: "stream0"

"Status" : 1 ,

"Video": 0 ,

"Audio" : 0

}

}
```

Э	Key	Style	Value	Ĭ	Ĭ	Ĭ	Ĭ	ΪÏ	LS3	PZ1	Ω̈́ ̈́̈́	PZ4	PZ2
	Response												
	Requested	String	SetStreamingServerSettingsRTMPS	-	-	_	-	√ √	-	✓		/ /	✓
	Result	String	(Result of command processing.)	_	-	1	-	√ √	_	✓		/ /	✓

```
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	099WH	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZ200
Requ	uest													
Ċ	ommand	String	SetStreamingServerSettingsRTP	_	✓	✓	✓	✓	✓	√	✓ 、	/ /	_	_
S	essionID	String	(Session ID in cookie.)	_	✓	✓	✓	✓	✓	√	✓ 、	/ /	_	_
Р	arams									T				
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	_	✓	✓	✓	✓	✓	√	√ \	/ /	1-1	J
	Alias	String	(A—ther name of server)	_	✓	✓	✓	✓	✓	√	√ \	/ /	1-1	_
	DstAddress	String	(IP address)	_	✓	✓	✓	✓	✓	√	√ \	/ /	1-1	-
	DstPort	Integer	(Port number)	_	✓	✓	✓	✓	✓	√	√ \	/ /	1-1	-
	PcrMode	Integer	0:Standard, 1:Fast	_	-	-	-	-	-		- \	/ /	1-1	ī
	Smpte2022Fec	Integer	0:OFF, 1:ON	_	✓	✓	✓	✓	✓	√	√ \	/ /	1-1	-
	FecMatrixL	Integer	4 - 20	_	✓	✓	✓	✓	√	√	✓ 、	/ /	-	
	FecMatrixD	Integer	4 - 20	-	✓	✓	✓	✓	√	√	✓ 、	/ /	1-1	_

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

```
Example

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

Response

Ke	ey	Style	Value	Ž	Ž	Ĩ	Σ̈́Ξ	Σ	LS3	PZ1	ΪΫ́	PZ4	PZZ
Re	esponse											T	
	Requested	String	SetStreamingServerSettingsRTP	-	✓	✓	√ ✓	′ √	✓	✓	/ /	/ -	司
	Result	String	(Result of command processing.)	-	✓	✓	√ ✓	′ √	✓	✓	/ /	/ -	_

```
Example

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

650 880 200 200 200 600 00 500 100

3.1.18. Set streaming server settings(SRT)

Set streaming settings for each server ID.

Request

Key		Style	Value	HM650	HM660	HM8x0	HM25x	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
Reque	est				Ш					Ш			
Co	mmand	String	SetStreamingServerSettingsSRT	_	_	_ -	- -	-	_	_	✓ ✓	· ✓	✓
Ses	ssionID	String	(Session ID in cookie.)	_	_	_ -	- -	-	_	_	✓ ✓	· ✓	✓
Pai	rams												
	ID	integer	0:server1, 1: server2, 2: server3, 3: server4	-	-		- -	- I -	-	-	√ √	_	\equiv
	Alias	string	(A—ther name of server)	_	-		- -	-	-	-	✓ ✓	-	_
	DstAddress	string	(IP Address)	_	-		- -	-	-	-	√ ✓	✓	✓
	DstPort	integer	1 - 65535	_	-		- -	-	-	-	√ ✓	✓	✓
	StreamId	string	(Stream ID for SRT)	_	-		-1-	-	-	-	√ ✓	✓	✓
	ConnectionMode	integer	0: Caller 1: Listener, 2: Rendezvous	_	-		- -	-	-	-	√ ✓	✓	✓
	BandwidthOverhead	integer	5 - 100	-	-		-1-	T-	-	-	√ ✓	✓	✓
	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 —t supported, it works as OFF regardless of the setting.)		Ш					Ш			

```
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" : "abcdefghij"
      }
    }
```

```
Example(In case of PZ400/200)

{

"Request" : {

"Command" : "SetStreamingServerSettingsSRT" ,

"SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,

"Params" : {

"DstPort": 6504 ,

"Encryption" : 1 ,

"Passphrase" : "abcdefghij" ,

"Status" : 1

}

}
```

Response

K	э у	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300 PZ100	HC900	HC5x0	PZ400	7220
R	esponse										T			
	Requested	String	SetStreamingServerSettingsSRT	_	-	-	-	-	- [·	- -	- 🗸	✓	✓ 、	7
	Result	String	(Result of command processing.)	_	-	-	-	-	- [·	- -	- 🗸	✓	✓ 、	7

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

3.1.19. Set Streaming Encode Protocol

Set Streaming Encode Protocol

This setting will —t take effect until reboot.

Request

Ke	у		Style	Value	9МН	9WH	HM8	HM2	HM2	LS3(PZ1(HC3	HC5 PZ4(PZ2(
Re	que	st						П	Т		\prod	П		
	Cor	mmand	String	SetStreamingEncodeProtocol	_	-	-			- -	- [- [-	- <	✓
	Ses	ssionID	String	(Session ID in cookie.)	_	-	-		- -	- -	- [- [_	- 🗸	✓
	Par	ams						П	Т		\prod	П		
		Stream	Integer	0: First, 1: Second	_	-	-		- -	-T-	- [- [_	- 🗸	✓
		EncodeProtocol	String	"H264" / "H265" / "MJPEG"	_	-	-		- -	- -	- [- [_	- 🗸	✓

550 550 560 560 560 560 600 600 600

Example

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

K	ey	Style	Value	ž	Ĭ	Ĩ	ΣΞ	Ž	LS3	PZ1	ı i	PZ4	77
R	esponse							T		П			
	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 —t take effect until reboot.

Request

Κe	ey.		Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	НС900	HC5x0 PZ400	PZ200
Re	eque	est				П	П				T			
	Со	ommand	String	SetStreamingIKeyFrameInterval	-	_	_		- [-	- -	- -	-	- 🗸	✓
	Se	essionID	String	(Session ID in cookie.)	_	-	-		- -	- -	- -	-	- 🗸	✓
	Pa	arams				П	П			T				
		Stream	Integer	0: First, 1: Second	-	-	-		- -	- -	- -	- [- [- <	✓
		Interval	Integer	Value of I Key Frame Interval "2" - "60"	-	-	-		- -	- -	- -	- [- [- <	✓

Example

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

Response

K	ey	Style	Value	ž	Ĭ	Ĩ	Ĭ	ΣΞ	LS3	PZ1	<u> </u>	PZ4	PZ2
R	esponse					П	П	Т					
	Requested	String	SetStreaminglKeyFrameInterval	_	\neg	-			-	-	- -	✓	✓
	Result	String	(Result of command processing.)	_	-	-			-	-	- -	✓	✓

550 550 560 560 560 560 600 600 600

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

3.1.21. Get Video Settings

Get the Video settings

Request

K	ey	Style	Value	Ĭ	Ĭ	Ĭ		Ž	LS3	PZ1	ž ž	PZ4	7
R	equest												
	Command	String	GetVideoSettings	-	-	-	- [-		_		- -	√ .	/
	SessionID	String	(Session ID in cookie.)	_	_	-	- -	-	_		- -	√ .	/

550 330 200 200 000 000 330 000 000

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

Ke	y		Style	Value	9WH	9WH	HM8	HM2	HM2	DES7	PZ1(E 2	HC5; PZ4(PZ20
Re	spc	onse												
	Re	equested	String	GetVideoSettings	_	_	_		- -		-		- 🗸	✓
	Re	sult	String	(Result of command processing.)	_	_	_		- -		-		- 🗸	✓
	Da	ıta												
		Output	String	"SDI" / "HDMI"	ı	_	1		- -	-	_		- 🗸	✓
		VideoFormat	String	"50Hz" / "60Hz" / "DialPriority"	ı	_	1		- -	-	_		- 🗸	✓
		EncodeLevel	String	"mainprofile" / "highprofile"	ı	_	1		- -	-	_		- 🗸	✓

```
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 —t take effect until reboot.

Request

Ke	Эy	Style	Value	Ĭ	Ĭ	Ĩ	ΣÏ	Ĭ I I	LS3	PZ1	Ĕ Ĕ	PZ4	PZ2
Re	equest												
	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	Σ I	Σ I	Σ I	∑ ∑ I I	Σ I	rsa	PZ,	Ÿ	PZ ⁴	P2.
	Response												
	Requested	String	SetVideoHdmiSdiOutput	-	_	-	- -	- -	-		- -	✓	√
	Result	String	(Result of command processing.)	_	_	-	- -	-	_	-	- -	✓	√

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

3.1.23. Set Video Format

Set Video Format.

This setting will —t take effect until reboot.

Request

Ke	ey.		Style	Value	HM650	HM660	HM8x0	HM200	HM25X	LS300		HC900	HC5x0 PZ400	PZ200
Re	que	est												
	Co	ommand	String	SetVideoFormat	1	_	_	- [- -		- -		- 🗸	✓
	Se	essionID	String	(Session ID in cookie.)	_	_	-		-1-		- -	_ -	- 🗸	✓
	Pa	arams												
		VideoFormat	String	"50Hz" / "60Hz" / "DialPriority"	_	_	-		- -		- -		- <	✓

Example

```
{
    "Request" : {
        "Command" : "SetVideoFormat" ,
        "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" ,
        "Params" : {
        "VideoFormat" : "DialPriority"
        }
    }
}
```

Response

K	ey	Style	Value	Σ I	Σ	Σ	∑ I I	Σ I	rs:	PZ′	E E	PZ,	PZ
R	esponse												
	Requested	String	SetVideoFormat	-	-	$ \Box$			_		- [-	- 🗸	✓
	Result	String	(Result of command processing.)	_	-	_	- -	- -	_		- -	- 🗸	✓

650 880 880 880 200 250 280 900 500

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

3.1.24. Set Video Encode Level

Set Video Encode Level.

This setting will -t take effect until reboot.

Request

Key		Style	Value	Ĭ	Ĭ	Ĩ	Ĭ	ŽÏ	ES3	PZ1		PZ4	PZ2
Requ	ıest			П				П					
С	ommand	String	SetVideoEncodeLevel	-	_	_			- -	-		- 🗸	~
S	essionID	String	(Session ID in cookie.)	1	-	-		- -	- -	-	-	- <	✓
P	arams			П				П					
	EncodeLevel	String	"mainprofile" / "highprofile"	1	-	_			- -	-	-	- 🗸	√

Example

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

Response

Κe	Э У	Style	Value	Ξ	₹	Ĭ	ΣĮ	₽	ĽS	PZ	9	Ž	P.Z.
Re	esponse												
	Requested	String	SetVideoEncodeLevel	-	_	-	- -	-	-	-	- [-	- 🗸	√
	Result	String	(Result of command processing.)	-	_	-	- -	-	-	-	- [-	- 🗸	√

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

3.1.26. Set Network Multicast Settings

Set the Network Multicast Settings.
This setting will —t take effect until reboot.

Request

Ke	Э у		Style	Value	HW6	HM6	₩ H	HM2	H MZ	LS3(PZ1(HC9	PZ4	PZ2(
Re	eque	est												\mathbb{T}
	Co	mmand	String	SetNetworkMulticastSettings	_	_	_	-		-	-	- -		✓
	Se	ssionID	String	(Session ID in cookie.)	_	_	_	-		-	-	- -		✓
	Pa	rams												
		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
        }
    }
}
```

:	Key		Style	Value	HM6	9MH	HW8	HMZ	Z H H	LS3(PZ1(H C5	PZ4	724
Ī	Res	ponse												
	F	Requested	String	SetNetworkMulticastSettings	_	_	-		- [-		-		✓ .	✓
	F	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

Ke	y	Style	Value	Η̈́	Ĭ	₩	H H	ΨH	LS3	PZ1	ΰ Ε	PZ4	77
Re	equest												
	Command	String	SetNDISettings	-	_	_		- -	_	-	- -	- 🗸	√
	SessionID	String	(Session ID in cookie.)	-	-	_		- -	_	_	- -	- 🗸	√
	Params												
	DeviceName	String	(text)	-	-	-		- -	-	_	- -	- 🗸	√
	GroupName	String	(text)	-	-	-		- -	-	_	- -	- 🗸	√

550 3x0 200 25x 25x 25x 000 000 000 000

550 500 500 500 500 500 500 600 600 600

Example

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

K	еу	Style	Value	Ĭ	Ĭ	Ĭ	Ĭ.	Ĭ	LS3	PZ1	5 H	PZ4	PZ2
R	esponse								Ī				
	Requested	String	SetNDISettings	-	-	- I		- -		 -		✓	✓
	Result	String	(Result of command processing.)	-	-	_		- -		 -		✓	✓

```
Example

{
    "Response" : {
        "Requested" : "SetNDISettings" ,
        "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

K	эу	Style	Value	HM650	HM660	HM8x0	HM200	HMZ5X	LS300	PZ100	НС900	HC5x0	PZ200
R	equest			П									
	Command	String	GetSystemInfo	✓	✓	\	✓	✓ 、	/ /	√	✓	√ v	/ /
	SessionID	String	(Session ID in cookie.)	✓	✓	\	✓	✓ 、	/ /	√	✓	√ v	/ /

```
Example

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

Response

Key	Style	Value	Σ I	Ξ	Ĭ	Σ	Ξ:	Σ č	LS3	ŽΫ́	Ÿ	PZ4	PZ2
Response													
Requested	String	GetSystemInfo	✓	✓	✓	✓	✓	✓	✓ .	/ /	′ √	✓	✓
Result	String	(Result of command processing.)	✓	✓	\checkmark	✓	✓	✓	✓ .	/ /	/	✓	✓
Data													
Model	String	Model information	✓	✓	\checkmark	✓	✓	✓	✓ .	/ /	/	\	✓
Model	String	"UNK—WN" / "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"(KY-PZ100) / "PZ400"(KY-PZ400) / "PZ200"(KY-PZ200) / "HC500"(GY-HC500) / "HC550"(GY-HC550) / "HC900"(GY-HC900)	✓	<	✓	✓	✓	✓	√	√ v	′ √	√	✓
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	-	WebAPI Version "XX.YYY.ZZZ" (XX:Major ver. YYY:Minor ver. ZZZ:Development ver)	√	✓	✓	✓	✓	✓	✓ .	/ /	′ ✓	✓	✓
Serial	String	Serial number "xxxxxxxx"	✓	✓	✓	✓	✓	√ .		√ v	′ √	_	

1650 18x0 1200 1280 1280 300 100 5x0 400

Re	esolution	String	Resolution of recording format. "1920x1080" / "1440x1080" / "1280x720" / "720x480" / "720x576" / "640x360" / "480x270"	-	-	-	-	-	-	-	-	√ √	_	-
O	verlay	String	Overlay option "On" / "Off"	_	-	_	✓	✓	✓	-	-	√ √	-	-
Та	agging	String	Tagging option "On" / "Off"	✓	✓	-	-	-	_	-	-		′ –	-
Zi	ixi	String	Zixi option "On" / "Off"	-	-	-	-	_	-	-	-	√ √	<u> </u>	1
Sr	rt	String	Srt option "On" / "Off"	-	-	-	-	_	-	-	-	√ √	'	✓
KA	A_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

k	(еу		Style	Value	HW6	9WH	HW8	HM2	HM2	LS30	PZ10	E L	PZ40	PZ20
F	Requ	est			П									
	Co	ommand	String	SessionRenewal	✓		-	-		- -	1-1	-1-	- -	[-]
	Se	essionID	String	(Session ID in cookie.)	✓	-	-	-		- -	1-1	- -	- -	-
	Pa	arams			П									
		Update		0:False(Time-out immediately) 1:True(Time-out extension)	✓	-	-	-		-	-	-[-		-

```
Example

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

K	ey	Style	Value	Ĭ	Ĭ	Ĭ	Ĭ	Ž	83	PZ1	H H	72 Z	PZ2
R	esponse												
	Requested	String	SessionRenewal	√	-	_		-[-	- [-	- -		-T-	
	Result	String	(Result of command processing.)	√	-	_		-[-	- [-	- -			

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

3.2.3. Get preset zoom position

Acquire the preset zoom position.

Request

Ke	∍y	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	PZ100	НС900	HC5x0	PZ400 PZ200
Re	equest												
	Command	String	GetPresetZoomPosition	✓	✓	✓	✓	✓	✓	/ -	- -	√ .	
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	/ -	- -	√ .	

```
Example

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

Response

Key	Style	Value	HW6	9H	E H H R	H MZ	HM2	LS3	PZ1(5 5	PZ4(
Response											T
Requested	String	GetPresetZoomPosition	✓	✓	✓	√ √	′ √	✓	-		/ - -
Result	String	(Result of command processing.)	✓	✓	✓	√ √	′ √	✓	-		/ - -
Data											T
A	Integer	Value of Preset "0" - "499",no-setting "-1"	✓	✓	✓	√ √	′ √	✓	-		/ - -
В	Integer	Value of Preset "0" - "499",no-setting "-1"	✓	✓	✓	√ √	′ √	✓	-		/ - -
С	Integer	Value of Preset "0" - "499",no-setting "-1"	✓	✓	✓	V V	· 🗸	✓	-		/ - -

50 50 50 50 50 50 50 50 50

```
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	HM280	LS300	PZ100	HC5v0	PZ400	PZ200
Requ	uest												
С	ommand	String	SetPresetZoomPosition	✓	✓	✓	✓ 、	/ /	/ /	_	- ,	/ -	_
S	essionID	String	(Session ID in cookie.)	✓	✓	✓	✓ 、	/ /	/ /	_	- ,	/ -	_
P	arams											\Box	П
	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	Ĭ	Ĭ	Ĭ	Ĭ	Ĭ	Ĭ.	L 53	: º	5 2	PZ2	
Ī	Response													
	Requested	String	SetPresetZoomPosition	✓	✓	✓	✓	✓	✓	√ -	-	✓ -	-[-	
	Result	String	(Result of command processing.)	V	\checkmark	✓	✓	✓	✓	√ -	- -	✓ -	- -	

350 380 380 380 380 380 380 380 380 380

```
"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

Ke	э у	Style	Value	HM650	099WH	HM8x0	HM200	HM280	LS300	PZ100	HC5x0	PZ400 PZ200	
Re	equest												1
	Command	String	GetNTPStatus	_	✓	✓	✓ 、	/ /	-	✓ .	/ /	- -	-]
	SessionID	String	(Session ID in cookie.)	_	✓	✓	✓ 、	/ /	_	✓ .	✓ ✓	- -	

Example

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

Response

Key		Style	Value	HM6	9WH	HW8	HM2 HM2	HM2	LS3C	PZ10	HC5	PZ40	PZZ
Respo	onse												
Re	equested	String	GetNTPStatus	_	✓	√	1 1	_	-	✓	/ /	-	-
Re	esult	String	(Result of command processing.)	_	✓	√	1 1	_	-	✓	/ /	-	-
Da	ata												٦
	Address	String	(IP address)	_	✓	√	1 1	_	-	✓	/ /	-	-
	TcSync	String	"On" / "Off"	_	✓	√	1 1	_	-	✓	√ -	-	-
	Status	String	"Syncronized" / "-tSyncronized" / "Master"	_	✓	√	1 1	_	-	✓	/ /	-	-

50 60 60 60 60 60 60 60 60 60 60

```
Example

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

Set the NTP server address.

Request

Ke	у		Style	Value	HM650	099WH	HM8x0	HM200	HM280	LS300	PZ100	НС900	HC5x0 PZ400	PZ200
Re	que	est												
	Со	mmand	String	SetNTPServer	_	✓	✓	✓ 、	/ ~	/ -	- 🗸	✓	✓ –	T – I
	Se	essionID	String	(Session ID in cookie.)	-	✓	✓	✓ 、	/ v	/ -	- 🗸	✓	√ -	_
	Pa	irams							T					\Box
		Address	String	(IP address)	_	✓	✓	✓ 、	/ v	/ -	- 🗸	✓	✓ -	_

```
Example

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

Response

:	Key	,	Style	Value	HM650	099WH	HM8x0	HM200	XCZMH	HM280	PZ100	НС900	HC5x0	PZ200
	Res	sponse						П						\Box
		Requested	String	SetNTPServer	-	^	✓	✓ .	√ .	√ -	- 🗸	✓	√ -	
	l lī	Result	String	(Result of command processing.)	_	/	✓	✓ .	✓ .	√ -	- 🗸	√	√ -	-1-1

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

Set the NTP settings.

Request

еу	Style	Value	HW6	9MH	HM8 HM2	HM2	HM2	LS30	PZ10 HC9(HC5	PZ40
equest						T					
Command	String	SetNTPSettings	-	✓	√ √	′ ✓	✓	-	√ -	- -	✓ 、
SessionID	String	(Session ID in cookie.)	-	✓	√ √	/ /	✓	-	√ -	- -	✓ 、
Params						T					
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.	-	-			_	-		- -	✓ 、
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

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

Example(In case of PZ400/200)

```
"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

K	э у	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300 P7100	HC900	HC5x0	PZ400	PZ200
R	esponse						П				\Box			
	Requested	String	SetNTPSettings	_	✓	✓	√	√	✓		/ -	-	✓	✓
	Result	String	(Result of command processing.)	_	✓	✓	√	√	✓		/ -	-	✓	√

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

3.2.9. Get NTP Settings

Get NTP Settings.

Request

k	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	HC900	PZ400	7
F	Request												٦
	Command	String	GetNTPSettings	_	-	-		- [-	- -	-	- -	✓ .	7
	SessionID	String	(Session ID in cookie.)	_	1	-		- [-	- -		- -	✓ .	7

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

Response

•	Style	Value	9MH	HMe	₽ ¥	HMZ	HM2	LS3(PZ1(HC9	5 5 5	PZ4(J
sponse										Т		
Requested	String	GetNTPSettings	_	$=$ Γ		T	-	_		-	. 🗸	ŗ
Result	String	(Result of command processing.)	_	\exists		1	_	-		-	. 🗸	ŕ
Data		· • • • • • • • • • • • • • • • • • • •		П							T	
TimeSync	Integer	0:OFF, 1:ON	_	-		1	_	-		-	. 🗸	,
TimeZone	String	(Time Zone) "GMT-1100" - "GMT+1300"	_	\exists		1	_	-		-	. 🗸	,
ServerAddress	String	(IP address)	_	-		1	_	-		-		,
TimeInterval	Integer	Value of Time interval(min)	_	-		1	_	-		-		,
MainTimeShow		·		П							T	٠
Status	Integer	0:OFF, 1:ON	_	-		1	_	_		-		,
XPosition	Integer	Value of X Position.	_	-		1	_	-		-		,
YPosition	Integer	Value of Y Position.	_	-			_	-		-	. 🗸	,
SubTimeShow				П							T	٠
Status	Integer	0:OFF, 1:ON	-			1=	-	-	-1-	-1-	. 🗸	,
XPosition	Integer	Value of X Position.	_	\exists		1	_	-		-		,
YPosition	Integer	Value of Y Position.	-	_			-	_		- -	. 🗸	į

550 560 500 500 500 500 500 500

```
"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

Ke	y		Style	Value	HM650	HM660	HM8x0	HM200 HM25x		LS300	PZ100	HC900	HC5XU PZ400	PZ200
Re	que	est												
	Со	mmand	String	SystemRequest	-	-	-		- -	-	-		- 🗸	✓
	Se	ssionID	String	(Session ID in cookie.)	-	-	-		- -	-	-		- 🗸	✓
	Pa	rams												
		Request	String	"Reboot"	_	-	_			-	_		- 🗸	✓

```
Example

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

Response

K	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300 PZ100	HC900	HC5x0	PZ400	PZ200
R	Response													
	Requested	String	SystemRequest	-	_	-	-	-[-1-	- -	-	✓	✓
	Result	String	(Result of command processing.)	-	_	1	-	-[-1-	- [–	-	✓	✓

```
"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

K	Key	Style	Value	HM650	099WH	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZ200
R	Request													
	Command	String	GetCamStatus	✓	✓	✓	\	✓	✓ .	✓	/ /	′ √	✓	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓ .	✓ \	/ /	/ /	✓	✓

Example

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

Response

"Camera"(record mode) / "Thmubnail"(display thmubnail) / "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 String Status "Off" / "On"			Style	Value	НМе	Ψ̈́H	HM8	HW	HW	HM	LS3	HC9	HC5	PZ4	PZ2
Reguested String GetCamStatus	oons	е													
Data Camera (Camera V V V V V V V V V V V V V V V V V V			String	GetCamStatus	✓	√	✓	✓	✓	✓ ,	/ /	′ √	/	✓	,
Camera C	Resul	lt	String	(Result of command processing.)	√	√	✓	✓	✓	✓ ,	/ /	′ √	\	✓	,
Status	ata				√	√	✓	✓	✓	✓ ,	/ /	′ √	\	✓	,
"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) / "Thmubnail" (display thmubnail) / "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" Web Access String Web access "Off" / "On" Web Access String Web access "Off" / "On" MenuOutput Status String Menu Open status of camera "Off" / "On" MenuOutput String "All / "Web" FullAuto Status String Status "Off" / "Preset"	Ca	amera		(Camera)	✓	✓	✓	\	>	✓ 、	/ /	/ /	✓	✓	
Mode String Mode "Camera" (record mode) / "Thmubnaii" (display thmubnaii) / "Play" (play clip) / "Review" (review clip) / "USB" (connect USB) / "EditMetadata" (edit metadata) /		Status	String	"NoCard"(no card inserted) / "Stop"(recording stop) / PZ400/200 always return "NoCard". "Standby"(record standby) / "Rec"(recording)/	✓	✓	✓	✓	✓	✓ .	✓ ✓	' √	>	<	,
"Normal" / "Pre" / "Clip" / "Frame" / "Interval" /		Mode	String	Mode "Camera"(record mode) / "Thmubnail"(display thmubnail) / "Play"(play clip) / "Review"(review clip) / "USB"(connect USB) /	✓	✓	✓	√	✓	✓ .	√ √	′ ✓	✓	_	
AspectRatio String Aspect ratio "16:9" / "4:3"		RecMode	String	"Normal" / "Pre" / "Clip" / "Frame" / "Interval" /	✓	√	✓	✓	✓	✓ .	/ -	- 🗸	✓	_	
WebAccess String Web access "Off" / "On" ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		TC	String	recording time(sec)(32bit length)	✓	✓	✓	✓	✓	✓ ,	/ -	- 🗸	✓	-	•
VideoOutputStatus String Video output status of camera "Off" / "On"		AspectRatio	String	Aspect ratio "16:9" / "4:3"	√	√	✓	✓	✓	✓ ,	/ -	- 🗸	\	-	
MenuStatus String Menu Open status of camera "Off" / "On" -		WebAccess	String	Web access "Off" / "On"	√	√	✓	✓	✓	✓ ,	/ /	′ √	\	✓	•
MenuOutput String "All" / "Web"		VideoOutputStatus	String	Video output status of camera "Off" / "On"	_	T	<u> </u>	_	-	-		′ -	-	✓	•
FullAuto V<		MenuStatus	String	Menu Open status of camera "Off" / "On"	_	√	✓	✓	✓	✓ .		′ √	\	✓	`
Status String Status "Off" / "On" / "Preset" V V V V V V V V V		MenuOutput	String	"All" / "Web"		E	-	_	-	-	- >	′ –	-	_	
	Fu	ıllAuto			✓	✓	✓	✓	✓	✓ 、	/ -	- 🗸	✓	_	
Fynosure		Status	String	Status "Off" / "On" / "Preset"	✓	✓	✓	✓	✓	✓ 、	/ -	- 🗸	✓		
	Ex	cposure			T	[-	[-	_	-	-		′ -		√	,

650 8x0 8x0 220 25x 25x 280 900 5x0

Status	String	Exposure "Auto" / "Manual" / "IrisPriority" / "ShutterPriority"	Ŀ				-	=]:	- 🗸	Ŀ	Ŀ	✓
		"Bright"	_	П	-	ī	$\exists I$	$\neg T$	-T-	-T-	-	✓
is		-	✓	✓	✓	√	✓ .	✓ 、	/ /	✓	✓	✓
Status	String	Mode "Manual" / "Auto" / "AutoAELock"	✓	✓	✓	✓	✓ .	✓ 、	/ -	. 🗸	✓	-
		"Auto" / "Manual"	_		_	ΞĪ	\exists	- 1	- 🗸	T-	-	✓
Value	String	Character string for iris value	✓	√	√	√	√	√ ,	/ /	_/	√	√
Position		Iris position (0-255, for Slider button position)	_	П			=	_	=1=	- /	1	H
Bain		The position to 200, for older basis position,	✓	/	√	✓	✓ .	✓ 、	/ /	· 🗸	√	1
Status	String	Mode "ManualL" / "ManualM" / "ManualH" / "Alc" or "AGC"(HC5x0) /	./	<u>; </u>					/ -	- 🗸	· ✓	Ė
Status	oug	"AlcAELock" / "Lolux" / "Variable"	ľ	ľ	•	ıἶΙ	ľ	ľ		ľ	•	İ
		"Auto" / "Manual"	-	H		\dashv	\dashv	+	+	+		۲
Value	String		<u>√</u>	H	_	_	_	_	/ /	/	_	×
	Sung	Character string for gain value	V	Ļ	v	· /	<u> </u>	/ 	<u>/ </u>		v	_
\eLevel	0.00		√	<u> </u>	√	<u> </u>	<u> </u>	<u> </u>	<u>′ </u>	-	√	F
Status		Mode "AeOff" / "AeOn" / "AeOnFace"	✓	<u> </u>	√	✓	✓ .	• •	/ -	- 🗸	✓	F
Adjust		AE Level adjustment "On" / "Off"	✓	✓	√	\checkmark	<u>√</u>	• •	/ -	. 🗸	✓	ᅣ
Value	String	Character string for AE level value	✓	✓	✓	_	-		/ /	√	✓	Ŀ
Shutter			✓	✓	✓		✓ .		/ /		✓	V
Status	String	Mode "Off" / "Manual" / "Step" / "Variable" / "Eei" /	✓	✓	✓	✓	✓	✓ \	/ -	- 🗸	✓	1-
		"EeiAELock"		Ш					$\perp \! \! \! \! \! \! \! \! \perp$			L
		"Auto" / "Manual"	Ŀ			آے	_]	_].	- 🗸		Ŀ	V
Value	String	Character string for Shutter value	✓	✓	✓	✓	√	√ 、	/ /	✓	✓	~
Vhb		-	✓	✓	✓	✓	✓ .	✓ 、	/ /	· _/	✓	V
Status	String	Mode "Preset"/"A"/"B"/"Faw"/"FawAELock"	✓	✓	√	✓	✓ .	✓ ,	/ -	. 🗸	✓	Γ
		"Faw" / "Awb" / "OnePush" / "3200K" / "5600K" / "Manual"	1-		_	<u> </u>	_	_	- 🗸	1=	_	Γ-
		"OnePush" /"Manual"	1_	口	_	口	寸	=†:		1-	_	7
		"Auto" / "Indoor" / "Outdoor"	1_	П			士	_		+-	_	,
Value	String	Character string for White Balance value	1	./	./	./	./	./ .	/ /	./	./	Ė
WhPRScale	Ü	Slide bar total length for White paint Red(0-64). (*)	√ √	ř	/	./	' —	7	/ -	-	/	Ě
WIIFINGCAIE	intogor	Slide bar total length for White paint Red(0-255). (*)	·	Ľ	٧	ř	<u>`</u>	'	Η.	<u> </u>	٧	H
WI-DDCI-	Integer		_	H	_	$\overline{}$	<u>ښ</u>	_	- ^	Ļ	_	_
WhPBScale	integer	Slide bar total length for White paint Blue(0-64). (*)	√	$\stackrel{\checkmark}{\vdash}$	~	_	<u> </u>	4	4		√	F
		Slide bar total length for White paint Blue(0-255). (*)	_	띡	\perp	二	井	_	- 🗸	ㅗ	_	^
WhPRPosition	Integer	Slide bar current position for White paint Red(0-64). (*)	✓	✓	✓	_	<u> </u>	<u> </u>	4	· 🗸	√	Ľ
		Slide bar current position for White paint Red(0-255). (*)	_	ᆸ	_	ᆈ	井	_	- 🗸		_	V
WhPBPosition	Integer	Slide bar current position for White paint Blue(0-64). (*)	√	√	✓	✓	√ .	✓ 、	<u> </u>	. 🗸	✓	Ŀ
		Slide bar current position for White paint Blue(0-255). (*)	_	_	-	_	_		- 🗸		-	V
WhPRValue		Character string for White paint Red value	✓	✓	✓	✓	√ .	✓ 、	/ \	✓	✓	√
WhPBValue	String	Character string for White paint Blue value	✓	✓	✓	✓	✓ .	✓ 、	/ \	✓	✓	V
Bright			-	[-]	-	ı-T	-1	-1	- 🗸	—	-	V
Value	String	Character string for Bright value	-	[-]	ı	ı — T	-1	- 1.	- 🗸	—	-	✓
Zoom			✓	✓	✓	✓	✓ .	✓ 、	/ /	✓	✓	V
Dynamic	String	Dynamic Zoom Status "On" / "Off"	—		_	√	✓ .	✓ .	-1-	- -	_	[-
DynamicPos	Integer	Dynamic Zoom Position(0-499)	_	П	_	✓	✓ .	✓ .	-1-	- -	_	-
Position		Zoom position (0-499, for Slider button position)	√	/	/	√	✓ .	✓ 、	/ /		/	7
DisplayValue		Character string for Zoom value "Z0 – Z149"	1	/	/	/	/	✓ 、	/ /		/	V
2 iopiay raido		(GY-HM200/HM25x/HM280/LS300 F-number "0 - 9999mm")	1			1						ľ
PanTilt		(CFT-MAZOOF-MAZOOF-ZOOGOT-MAMDOF-C-C-C-C-MAT)	+	Н	_		_	=+	/	+-	_	.,
SpeedWithZoom	String	Speed With Zoom Status "On" / "Off"	╁	ᅥ	Н	러	\exists	十.	<u>-Ľ</u>	+	 	Ě
PresetSpeed		Pan/Tilt/Preset speed (1-30)	E	H	H	一	+	+	_	Ŧ	Ė	Ě
	integel		ļ_	Ļ	_	_	7	-		+	_	√ √
ocus	Ctain	AA L HAEE - H / HAEH / HAAEO - D. L H / HAEH /	√	✓	√				/ /	_	√	_
Status	String	Mode "AFFace" / "AF" / "MFOnePush" / "MF" /	√	V	✓	✓	✓ .	✓ \	/ -	- 🗸	✓	ľ
		"MFFace"	<u> </u>	ш	Ш	Ш	4	4	4	4	<u> </u>	L
		"Auto" / "Manual"	<u> </u>		_			ᆜ:	- 🗸	ㅗ	_	✓
Value	String	Character string for Focus value	✓	✓	✓	✓	✓ .	✓ 、	/ /	√	✓	V
MasterBlack				,	,	✓	./ .	,			,	

Value	String	Character string for MasterBlack value			√	'	V	√	4	- 🗸	٧.	_
De <u>tail</u>				√	✓	√	✓	✓ -	- 🗸	′ √	✓	_
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)			Ш							
ReturnOverIP			_	1-	_	_	_	_ ·	- [-	- 🗸	✓	_
Status	String	Status	-	T	T		-	_ [·	-1-	- 🗸	✓	_
		"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"	✓	✓	1-	✓	✓	✓ 、	/ -	- 🗸	✓	Ξ
CharacterMix			_	1-	✓		_	_ [-	-1-	- 🗸	✓	_
Sdi	String	Mix "On" / "Off"	_	1-	1		_	<u> </u>	=1-	- 🗸	✓	=
Hdmi		Mix "On" / "Off"		†-	V		_	_	_ -	- 🗸	✓	=
Video		Mix "On" / "Off"	_	+	1	\Box			_ -	- 🗸	✓	Ξ
TallyLamp		61. 7 61.	1	/	1	1	1	1	/ /	/ /	1	/
Priority	String	Priority "Camera" / "Web"		1	1	7	1	/ \	/ /	/ /	1	Ξ
Lighting		Lighting "On" / "Off"		1	1	<i>'</i>	<i>'</i>	/ \	/ /	, ,	1	/
StudioTally		Status "Off" / "Program" / "Preview"		1.7	1./	<i>'</i>	<i>'</i>	./ .	- ·	/ //	./	<u>.</u>
SlotA	3	(Status of SlotA)	1	1./	1./	<i>'</i>	1	./ .	/ -	- 1/	./	÷
Status	String	Status "Select" / "NoSelect" / "NoCard" / "SelectRec" /	./	/	./	<i>y</i>	./	<i>y</i> ,	/ -	/	./	_
Status	oug	"NoSelectRec" / "Invalid" / "Unknown"	ľ	ľ	ľ	ľ	`	ľ	'	ľ	`	
Protect	String	Status "Unlock" / "Lock"	✓	./	./	√	√	√ \	/ -	- /	./	_
Remain		Remaining amount time(minutes) (0-65535)	√		+	_			<u>/</u> -	- 🗸	√ ✓	_
ClipNum		Number of clips(0-4000)			√ √				/ -	- 🗸	/	_
RemainWarning		Remaining amount warning(0=No warning/1=Warning)	√		<u>'</u>	√ ✓	√ ✓	٠,	/ -	- 🗸	/	_
SlotB	integer	(Status of SlotB)	<i>y</i>	'	-	√ √	✓ ✓	•	/ /		v /	-
Status	String	Status "Select" / "NoSelect" / "NoCard" / "SelectRec" /	· /	÷	-	√ √	· /		/ /	, v	v	_
Status	Ouring		ľ			'	~	'	′ ′	~	~	٧
Drotoot	String	"NoSelectRec" / "Invalid" / "Unknown" Status "Unlock" / "Lock"	1	+	+-	1	1	<i>y</i> ,	/ /	′ √	1	
Protect			✓ ✓	-	 	 	· /	•	/ /	/ /	√ /	_
Remain		Remaining amount time(minutes) (0-65535)	√ √	-	-	Ļ	√ ,	,	/ / / /	′ √	√ ,	=
ClipNum		Number of clips(0-4000)		_	-	Ý	√	• •	/ / / /	<u> </u>	√ ,	_
RemainWarning	Integer	Remaining amount warning(0=No warning/1=Warning)	✓	-	ᅷ	✓	✓	<u> </u>	/+′	′ √	√ ,	_
SlotExt	0	(Status of SlotExt)		ㅗ	丰	닏			#	- 🗸	✓	_
Status	String	Status "Select" / "NoSelect" / "NoCard" / "SelectRec" /	-	-	-	-	-	- -	- -	-	✓	-
	000	"NoSelectRec" / "Invalid" / "Unknown"		4	丰	ш	Ш	_	\bot		H	_
Protect		Status "Unlock" / "Lock"		上	上	ഥ	ᆸ	ᅶ	ᅶ	- 🗸	√	_
Remain		Remaining amount time(minutes) (0-65535)		上	上	ഥ	ᆸ	ᅶ	ᅶ	- 🗸	√	_
ClipNum		Number of clips(0-4000)		上	上	1-1			ᆣ	- 🗸	✓	_
RemainWarning	Integer	Remaining amount warning(0=No warning/1=Warning)		上	上	닏		<u>_</u> _	ᆣ	- 🗸	✓	_
Battery		(Status of Battery)	√	_	_	_			/ -	- 🗸	√	_
Info	String	Battery information display classification	✓	✓	~	\	✓	✓	/ -	- 🗸	✓	-
		"Time"(minutes) / "Capacity"(%) / "Voltage"(V)				L						
Level	String	Battery Level	1	1	✓	/	✓	✓ ,	/ -	- 🗸	./	_

		0:no battery / 1:plug / 2:plug[!] / 3:battery[?] /	√	✓	✓	✓	√ .	✓ 、	/ -	- 🗸	✓	<u>I</u> -	J-
		4:battery[CAL] / 5:battery[empty] / 6:battery[low] /	√	✓	✓	✓	✓ .	✓ 、	/ -	- 🗸	✓	-	T
		7:battery[middle] / 8:battery[full] /	✓	✓	√	✓	✓ .	✓ ,	/ -	- 🗸	✓	Τ-	T
		9:battery[no segments] /	✓	✓	√	✓	✓ .	✓ ,	/ -	- 🗸	✓	Τ-	T
		10: charging battery [empty] /	1-	√	<u> </u>	✓	✓ .	✓ ,	/ -	- 🗸	✓	1-	t-
		11: charging battery [low] /	_	/	┢	✓	√	<i>,</i>	√ -	- 🗸	√	Τ-	t
		12: charging battery [middle] /	_	/	<u>†</u>	✓	√	/ \	✓ -	- 🗸	√	<u> </u>	t-
		13: charging battery [full] /	_	/	<u> </u>	√	1	/ ,	/ -	- 🗸	/	<u>†</u>	t-
		14: charging battery [no segments]	+-	/	┢		<i>y</i> ,	√ \	/ -	- 🗸	√	┢	t
Value		Remaining amount time	/	/	/	✓	· /		/ -	- 🗸	<i></i>	┢	t
Value		(minutes/ % / Voltage, 65535 is impossible get)(0-1000/10)			1		1				1		
uminance		(minuted 70.7 Vehicles, cooled to impedable get/(c 1000/10)	+-	+	┢		_	_		+-	+	./	t
Value	Integer	Luminance value	+-	+	┢			_	_†_	_	+	./	t
aturation	togo:	Luminance value	1	╁╴	╁	t	一	_	_	_	╁	'	t
Value	Integer	Saturation value	╂	E	E	H	H	=+:	==	₩	는	\ <u>'</u>	ł
ontrast	intogor	Saturation value	╂	E	E	H	H	=+:	==	₩	는	\ <u>'</u>	1
Value	Integer	Contrast value	+	干	干	H	\vdash	+	#	₩	F	·	4
	integer	Contrast value	+	干	干	H	H	4	#	干	干	+	4
harpness	Intoger	Charmaga value	╫	干	屽	뭐	႕	4	#	丰	干	<u>'</u>	-
Value	integer	Sharpness value	+-	屽	屽	뭐	귀	4	#	#	丰	·	-
ue	Intog	Live codes	+-	丰	屽	뭐	귀	4	#	#	屽	ľ	-
Value	integer	Hue value		丰	ㅗ	ㅡ	러	#	_	4	ㅗ	√	-
lip	0			丰	는	_	ᆛ	4	4	ㅗ	ㅗ	<u>√</u>	-
Status	String	Status "On" / "Off"		上	느	느	ᅪ	4	#	#	ㅗ	<u> </u>	-
irror				丰	ㅗ	느	ᆂ	4	ᆂ	ᆂ	ㅗ	✓	-
Status		Status "On" / "Off"	_	上	느	_	ᆂ	ᅷ	ᆂ		느	✓	
nable		(Availability of function button switches)	✓	✓	✓	✓	✓ .	<u>/</u> \	/ /	✓	✓	✓	
Fullauto		(Fullauto function)	√	✓	✓	✓	✓ .	/ \	/ -	- ✓	✓	느	
Enable		switch 0:Disable, 1:Enable		上	✓	✓	✓ .	/ \	√ -	- 🗸	✓	ᄂ	_
On		button "ON" switch of fullauto 0:Disable, 1:Enable	✓	√	✓	✓	√ ·	✓ 、	/ -	- ✓	✓	上	
Off		button "OFF" switch of fullauto 0:Disable, 1:Enable	✓	✓	✓	✓	✓ .	✓ 、	/ -	- ✓	✓	_	
Preset	Integer	button "PRESET" switch of fullauto 0:Disable, 1:Enable	_	上	L	_	لا	<u> </u>	/ -	- -	L	上	
Exposure		(Exposure function)	_	上	上	_		<u>-</u>	- 🗸	<u> </u>	<u> </u>	✓	
Enable	Integer	switch 0:Disable, 1:Enable	_	上	上	_		<u>-</u>	<u> </u>	- -	<u> </u>	<u> </u>	
Auto	Integer	button "Auto" switch of fullauto 0:Disable, 1:Enable	-	Ţ-	<u> </u>	_	i – T	-1	- 🗸	, I-	I -	✓	
Manual	Integer	button "Manual" switch of fullauto 0:Disable, 1:Enable	_	T	<u> </u>	_	ıΠ	- ∏-	- 🗸	7 -	_	✓	
ShutterPriority	Integer	button ShutterPriority" switch of fullauto	_	<u> </u>	_	_	ПΞ	- ∏-	- 🗸	7 -	_	✓	
		0:Disable, 1:Enable					ıl						
IrisPriority	Integer	button "IrisPriority" switch of fullauto	T-	<u> </u>	-	_	ı — T	- 1.	- 🗸	7 -	-	✓	٠
		0:Disable, 1:Enable					ı						
Bright	Integer	button "Bright" switch of exposure	T-	1-	_	_	ī	_		- -	_	✓	
		0:Disable, 1:Enable					ı						
Iris		(Iris function)	✓	√	√	✓	√	<i>,</i>	/ /	/ /	√	√	
Enable	Integer	switch 0:Disable, 1:Enable	1-	1-	√	✓	✓ .	/ ,	/ -	- 🗸	√	<u> </u>	
StatusDisp		Display Value of iris 0:Disable, 1:Enable	_	1=	T	1	1	<i>,</i>	/ -	- 🗸	/	⇇	
Manual		button "MANUAL" switch of iris 0:Disable, 1:Enable PZ400/200 always return 0.	√	/	/	1	1,	/ ,	/ /	, ,	/	/	
Auto		button "AUTO" switch of iris 0:Disable, 1:Enable PZ400/200 always return 0.	<i></i>	1	1	1	/	/ \	/ /	, ,	1	1	
Open1		button ">" switch of iris 0:Disable, 1:Enable	· /	./	./	✓	<i>y</i> ,	/ \	/ /	/ /	./	./	
Open2		button ">>" switch of iris 0:Disable, 1:Enable	√ √	1./	*	√ √	. 		v v v –	/	1	Ť	
Open3	_	button ">>> switch of iris 0:Disable, 1:Enable	√	÷	÷	√ √	v ·		v / -	- 1	'	₩	
<u> </u>			√ √	-	<u>'</u>		•		√ - √ √	-	'	+	
Close1		button "<" switch of iris 0:Disable, 1:Enable		<u></u>	<u> </u>		•				√ ./	<u> </u>	
Close2		button "<<" switch of iris 0:Disable, 1:Enable	√	 	Ľ		√ .		√ -	- 🗸	 	丰	
Close3		button "<<<" switch of iris 0:Disable, 1:Enable	√	<u></u>	<u></u>	•	√ .		√ -	- 🗸	√	μ_	
PushAuto	Integer	button "Push Auto" switch of iris 0:Disable, 1:Enable	√	√	✓		✓ .	/ \	√ -	ᆂ	√	1-	
Gain	1	(Gain function)	1	1/	1	✓	✓ .	. / .	/ /	/ /	1/	1 /	

Enable	Integer switch 0:Di				✓	✓	√ .	✓ .	√ -	- 🗸	✓		E
StatusDisp	Integer Display Va	lue of gain 0:Disable, 1:Enable		-	_	√	√ .	✓ .	√ -	- 🗸	✓	-	<u> </u>
Manual		.NUAL" switch of gain 0:Disable, 1:Enable PZ400/200 always return 0.	✓	✓	-	\equiv	$=$ \mathbb{T}	-1		/ -	T-	✓	✓
Auto	Integer button "AU	TO" switch of gain 0:Disable, 1:Enable PZ400/200 always return 0.		-	-	=	= [-1		/ -	T-	✓	✓
Lolux	Integer button "LO	LUX" switch of gain 0:Disable, 1:Enable	✓	✓	✓	✓	✓ 、	✓ ,	√ -	- 🗸	✓	_	-
Variable	Integer button "Va	riable" switch of gain 0:Disable, 1:Enable	<u> </u>	-	1-1	=	-1		✓ -	- 🗸	✓	-	_
L		switch of gain 0:Disable, 1:Enable	√	✓	✓	√	✓ 、	✓ ,	✓ -	- 🗸	V	_	_
M		switch of gain 0:Disable, 1:Enable	√	V	√	√	√ .	✓ 、	√ -	- 🗸	V	-	_
H		switch of gain 0:Disable, 1:Enable	✓	✓	√	✓	√ .	✓ ,	√ -	- 🗸	/	_	_
Up1		1" switch of gain 0:Disable, 1:Enable		✓	√	√	√ .	✓ ,	/ v	/ /	/	√	√
Up2		2" switch of gain 0:Disable, 1:Enable		_		=1	=	=	√ -	- 🗸	1	_	_
Down1		wn1" switch of gain 0:Disable, 1:Enable		1	1	/	1	/	1 1	/ /	_/	/	1
Down2		wn2" switch of gain 0:Disable, 1:Enable		Ė	Ė	Ì	Ħ	=	./ -	- 1/	-/-	Ė	Ė
AeLevel	(AE Level 1		-/	./	/	√	1	/ ,	./	/ /	-/-	./	./
Enable	Integer switch 0:Di	,		_	./	./		v ,	./ -	- V		_	_
StatusDisp		lue of AELevel 0:Disable, 1:Enable			Ľ	<i>√</i>		v ,	7 -	- V	'		ь
Up		switch of AElevel 0:Disable, 1:Enable PZ400/200 always return 0.		-	-	<u> </u>		v ,	/ -	- v / v		_	F
Down		switch of AElevel 0:Disable, 1:Enable PZ400/200 always return 0.		· /	· /	<u> </u>	' '	/ `	′ 	/ ×	+	v /	<u> </u>
		· · · · · · · · · · · · · · · · · · ·		V	'	<u> </u>	' '	<u>/</u>	<u> </u>	/ ' ,	<u> </u>	V	_
AdjustOn		" switch of AElevel 0:Disable, 1:Enable		Ε.	\vdash	<u> </u>	<u> </u>	<u> </u>	<u> </u>	- 🗸	-	Ε.	ᆮ
AdjustOff		F" switch of AElevel 0:Disable, 1:Enable	<u> </u>	Ε.	ட	√	<u> </u>	√	<u> </u>	- V	<u> </u>	Ι-	E
Shutter	(Shutter fu			√	√	√	<u> </u>	<u>/</u>	<u> </u>	/ /	<u> </u>	√	√
Enable		sable, 1:Enable		_	✓	√	<u> </u>	4	<u> </u>	- 🗸		_	ᆮ
StatusDisp		lue of Shutter 0:Disable, 1:Enable)		_	느	✓	<u> </u>	✓ 、	<u> </u>	- 🗸		_	ᆮ
Off		F" switch of shatter 0:Disable, 1:Enable	✓	✓	✓	_	_	4	ᆂ	ᆂ	ᆂ	_	ᆫ
Manual		NUAL" switch of shatter 0:Disable, 1:Enable	✓	√	ᆜ	ᆜ	_	_				_	ᆫ
Step		EP" switch of shatter 0:Disable, 1:Enable		_	✓	√	_	✓ 、	✓ -	- 🗸	✓	_	二
Variable		IABLE" switch of shatter 0:Disable, 1:Enable		_	✓	✓	•	√ 、	✓ -	- 🗸	✓	_	1-
Eei		I" switch of shatter 0:Disable, 1:Enable	✓	√	✓	✓	√ .	√ 、	✓ -	- 🗸	✓	_	<u> -</u>
Slower		switch of shatter 0:Disable, 1:Enable	✓	✓	✓	✓	✓ .	✓ .	✓ ✓	/ \	✓	√	✓
Faster	Integer button "▼"	switch of shatter 0:Disable, 1:Enable	✓	✓	✓	✓	✓ .	✓ 、	√ √	/ /	✓	✓	√
Nhb		ance function)	✓	✓	✓	✓	✓ .	✓ 、	√ √	/ /	✓	✓	√
Enable	Integer switch 0:Di	sable, 1:Enable		_	✓	✓	✓ 、	✓ 、	✓ -	- 🗸	✓	_	-
StatusDisp	Integer Display Va	lue of White balance 0:Disable, 1:Enable	-	-	_	✓	✓ .	✓ ,	✓ -	- 🗸	✓	-	-
Auto	Integer button "Aut	to" switch of White balance		-	_	=	-T	- [-1-	-T-	1-	✓	✓
	0:Disable,	1:Enable											Ì
Indoor		oor" switch of White balance		_	_	_	_	_		-1-	1-	✓	✓
	0:Disable,	1:Enable				i							Ì
Outdoor	Integer button "Ou	tdoor" switch of White balance	-	-	-	=1	=1	7	_ -	_ _	_	✓	✓
	0:Disable,	1:Enable											Ì
OnePush		ePush" switch of White balance		-	_	_	_	#	_ -	_ _	1-	√	√
	0:Disable,					i							İ
Manual		NUAL" switch of White balance	/	1		_	_	_		/ -	+	/	1
Mariaar	0:Disable,		ľ	ľ		i			ľ			ľ	ľ
Faw		W" switch of White balance	✓	✓		〓	士	#		/ -	+-	-	┢
I aw	0:Disable,		•	`		i			ľ				İ
Preset		ESET" switch of White balance	✓	/	✓	✓	_	✓ 、	/	- 🗸	√	<u> </u>	H
FIESEL	0:Disable,		~	`	`	`	'	′ '	·	_ `	ľ		1
A		switch of White balance 0:Disable, 1:Enable		√	1	√	✓ ,	✓ ,	√ -		+	 	+
В			✓ ✓	√ √						_ √ _ √		E	F
lα		switch of White balance 0:Disable, 1:Enable //B" switch of White balance		✓				√ ·		_ '		_	F
A la			1—	1-	1-	_	- 1		— I√	/ -	1-	1-	1-
Awb								J	l l				ı
	0:Disable,	1:Enable			Ш		\downarrow		_	\perp	1		L
Awb PushAuto	0:Disable, Integer button "On	1:Enable ePushTrigger" switch of White balance	√	✓	✓	√	✓ 、		√ √	/ /	√	✓	✓
	0:Disable, Integer button "On 0:Disable,	1:Enable ePushTrigger" switch of White balance	√	√	√	√				/ /	√	✓	✓

		0:Disable, 1:Enable		\perp	_		_						
K5600		button "5600K" switch of White balance	-	· -	- -	- -	- -	-	-	✓ .	- -	· -	-
		0:Disable, 1:Enable					丄				\perp	╙	
WhPaintRP		button "↑" switch of White paint 0:Disable, 1:Enable	✓	√	٠,	′ √	′ √	√	✓	✓ .	✓ ✓	√	•
WhPaintRM		button " ↓ " switch of White paint 0:Disable, 1:Enable	√	√	,	′ √	′ √	√	✓	✓ .	✓ ✓	√	•
WhPaintBP		button "→" switch of White paint 0:Disable, 1:Enable	✓	√	,	′ √	′ √	✓	✓	✓ ,	/ /	√	•
WhPaintBM	Integer	button "←" switch of White paint 0:Disable, 1:Enable	✓	~	,	′ ✓	′ √	✓	\	✓ ,	/ /	\	•
Bright		(Bright function)	-	- -	- [-	- -	-T-	-	-	-	-1-	- 🗸	
Enable	Integer	switch 0:Disable, 1:Enable	-	· [-	- [-	- [-	-T-	1-	-	- [-T-	-T-	-
StatusDisp	Integer	Display Value of Bright 0:Disable, 1:Enable	-	- [-	- [-	- [-	-T=	—	_	-	-1-	- -	-
Up	Integer	button ">" switch of Bright 0:Disable, 1:Enable	-	- [-	- [-	- [-	-T=	—	_	-	-1-	- 🗸	
Down	Integer	button "<" switch of Bright 0:Disable, 1:Enable	-	- -	- -	- -	- -	_	_		-1-	- 🗸	,
Zoom		(Zoom function)	✓	√	. ,	′ √	√	✓	✓	✓ ,	/ /	√	,
Enable	Integer	switch 0:Disable, 1:Enable	_	- -		/ /	· 🗸	✓	√	- ,	/ /	1-	-
StatusDisp		Display Value of Zoom 0:Disable, 1:Enable	_	- -	- -	- 🗸		√	√	_ ,	/ /	1-	-
Tele1		button ">" switch of zoom 0:Disable, 1:Enable	/	/		/ /		/	/	✓ ,	/ /		,
Tele2	_	button ">>" switch of zoom 0:Disable, 1:Enable				/ /	· 🗸	1	✓	<i>y</i> ,	/ /		,
Tele3		button ">>>" switch of zoom 0:Disable, 1:Enable				/ /		1	/	<i>y</i> ,	/ /	1	,
Wide1		button "<" switch of zoom 0:Disable, 1:Enable	./	<i>\</i>		/ \	· 🗸	1	✓	<i>y</i> ,	/ . /	· 🗸	,
Wide2	_	button "<<" switch of zoom 0:Disable, 1:Enable	./	1./	- 1	/ ./		1	./	./ .	/ /	1./	,
Wide3		button "<<<" switch of zoom 0:Disable, 1:Enable	./	./		/ ./	· ,	·	./	./ .	/ /	/	,
Tele		button "Tele" switch of zoom 0:Disable, 1:Enable		. <u>`</u>	- \	/ ./	· 🗸	√ ✓	./	٧.	<i>y y</i>	+Ľ	
Wide		button "Wide" switch of zoom 0:Disable, 1:Enable		\pm	- '	/ /	· 🗸	_	/	= '	/ V	\pm	٠
Preset		button "Preset" switch of zoom 0:Disable, 1:Enable		+		/ /	· ./		v /	_ ,	/ ×	#	
Clear	J	button "Clear" switch of zoom 0:Disable, 1:Enable		#		/ V	· _/	· /	v /		/ \	#	
		,		+=	- ^	, ,	· _/	√ √	٧	_ ,	/ /	#	
Preset1	J	button "A" switch of zoom 0:Disable, 1:Enable	_	#		′ ∨	<u>+</u>	·	√ ,	_	- 1	#	
Preset2		button "B" switch of zoom 0:Disable, 1:Enable		+=	- ^			√.	√	_	- 🗸	#	
Preset3	Integer	button "C" switch of zoom 0:Disable, 1:Enable		+	- ^		′ √	√	√	_	- 🗸	#	
Focus		(Focus function)	✓		~	′ ∨	√	✓	✓	√ ·	/ /		
Enable		switch 0:Disable, 1:Enable		4-	- v	′ √		✓	✓	- ,	/ /	ᆂ	
StatusDisp		Display Value of Focus 0:Disable, 1:Enable		4-		- 🗸	′ √	<u> </u>	✓	<u> </u>	/ \	ᆂ	
Manual		button "MANUAL" switch of focus 0:Disable, 1:Enable	√	√	· ,	′ √	′ √	√	✓	√ ,	/ \		
Auto		button "AUTO" switch of focus 0:Disable, 1:Enable	✓	✓	_ '	′ √	′ √	√	✓	✓ ,	✓ ✓	√	
Far1		button ">" switch of focus 0:Disable, 1:Enable	√	√	_ '	′ √	′ √	√	✓	√ ,	/ /	√	
Far2		button ">>" switch of focus 0:Disable, 1:Enable	√	√	٠,	′ √	′ √	√	✓	✓ .	/ /	√	٠
Far3		button ">>>" switch of focus 0:Disable, 1:Enable	√	√	٠,	′ √	′ √	√	✓	✓ .	/ /	√	٠
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	✓	~	· [-	- [-	- [-	-	1	- [- [-	- -	-
PushAuto	Integer	button "PUSH AUTO" switch of focus	✓	~	,	/ /	′ √	✓	\	✓,	/ /	√	
		0:Disable, 1:Enable											
MasterBlack		(MasterBlack function)	-		. ,	′ ✓	′ √	✓	-	- ,	/ /	7-	
Enable	Integer	switch 0:Disable, 1:Enable	-	- -	- -	- -	- -	_	_	- ,	/ /	T-	
StatusDisp	Integer	Display Value of MasterBlack 0:Disable, 1:Enable	_	1-	- -	- -	-1-	1-	_	- ,	/ /	7-	
Up1	Integer	button ">" switch of MasterBlack 0:Disable, 1:Enable	_			′ ✓	· 🗸	✓	_	- ,	/ /	1-	
Up2	Integer	button ">>" switch of MasterBlack 0:Disable, 1:Enable	_		. ,	/ /	′ √	✓	_	_ ,	1 1	7-	
Up3		button ">>>" switch of MasterBlack 0:Disable, 1:Enable				/ /	· 🗸	√	-	_ ,	1 1	†=	
Down1		button "<" switch of MasterBlack 0:Disable, 1:Enable				/ /	<u> </u>	· /	1	=1.	7 ,	+	
Down2		button "<<" switch of MasterBlack 0:Disable, 1:Enable				/ /	_		<u> </u>	_ [.	v v √ √	+	
Down3	Ü	button "<<" switch of MasterBlack 0:Disable, 1:Enable				/ /			\vdash	=f	/ `	+	٠
Detail	ogoi	(Detail function)		/	_	/ /		<i></i>		_	v v / /	+	
Enable	Integer			H.	ď		Ť	_	Е	=	<u>'</u>	£	
Enable	·	switch 0:Disable, 1:Enable Display Value of Detail 0:Disable, 1:Enable	_	1	-		#	ᄪ	ᆮ		#	4	_

		button ">" switch of Detail 0:Disable, 1:Enable		✓	√	✓	✓	✓	<u> - </u> -	- 🗸	√	느
Down	Integer	button "<" switch of Detail 0:Disable, 1:Enable		√	√	√	✓	✓		- 🗸	✓	_
er		(switch of user assignment)	✓	✓	√	✓	✓	✓	✓ _∨	/ /	✓	L
Sw0	Integer	button "SW0" switch of User Switch	1-	1-	-	-	-	-	- -	- 🗸	-	-
		0:Disable, 1:Enable										
Sw1	Integer	button "SW1" switch of User Switch	√	✓	√	✓	✓	✓	✓ -	- 🗸	✓	Е
		0:Disable, 1:Enable										
Sw2	Integer	button "SW2" switch of User Switch	✓	✓	√	✓	✓	✓	✓ -	- 🗸		
		0:Disable, 1:Enable										
Sw3	Integer	button "SW3" switch of User Switch	✓	✓	√	✓	✓	✓	✓ -	- 🗸	✓	1-
		0:Disable, 1:Enable										
Sw4	Integer	button "SW4" switch of User Switch	√	✓	✓	√	✓	√	✓ -	- 🗸	V	t-
		0:Disable, 1:Enable										
Sw5	Integer	button "SW5" switch of User Switch	1	1	√	1	1	/	✓ .	- 🗸	/	t
Down		0:Disable, 1:Enable						'				
Sw6	Integer Intege	button "SW6" switch of User Switch	✓	√	✓	./	./	./	1.	/	-/-	t
Owo		0:Disable, 1:Enable	ľ	ľ	ľ	ľ	ľ		ľ	ľ	ľ	
Sw7	Integer	button "SW7" switch of User Switch	√	√	√	./	./	/	1			
GW/	integer	0:Disable, 1:Enable		ľ	ľ	~	ľ	v		ľ		ľ
C _{14/} Q	Integer	button "SW8 switch of User Switch	- 	+		,	,	 		H		
SWO	integer	0:Disable, 1:Enable		Γ	1		1					
Sw0	Intoger	button "SW9" switch of User Switch		+		-	-	+	\vdash	+		
Sw9	integer		-		· ^	V	~	V	V -	- -	~	-
0.40	leterer	0:Disable, 1:Enable		+	+,	+	-	₩	H	+	+-	╄
SW10	integer	button "SW10" switch of User Switch	-		√	-	-	-	√ -	- -	V	-
		0:Disable, 1:Enable		+	4	-	-	₩'	\sqcup	4	4	╀
Sw11	integer	button "SW11" switch of User Switch	1-	1-	√	-	-	-	- -	- -	✓	1-
_		0:Disable, 1:Enable		4	_	1	_	₩	$\vdash \vdash$	_	4	╄
Sw12	Integer	button "SW12" switch of User Switch	-	1-	-	-	-	-	- -	- -	√	-
		0:Disable, 1:Enable		_	1		_	igspace	Ш	\bot	丄	Ļ
Sw13	Integer	button "SW13" switch of User Switch	-	1-	-	-	-	-	- -	- -	✓	-
		0:Disable, 1:Enable							Ш		$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	
LensRet	Integer	button "LensRet" switch of User Switch	-	1-	√	-	-	-	- -	- 🗸	-	-
		0:Disable, 1:Enable							Ш			
Sub1	Integer	button "Sub1" switch of User Switch	-	1-	· -	-	-	-	- \	/ -	-	-
		0:Disable, 1:Enable										
Sub2	Integer	button "Sub2" switch of User Switch	-	1-	- [-	T-	<u> </u>	T-1	- \	/ -		Г
		0:Disable, 1:Enable										
Sub3	Integer	button "Sub3" switch of User Switch	-	1-	-	-	-		- ,	/ -	1-	T
1		0:Disable, 1:Enable					1	1				
VfSw1	Integer	button "VfSW1" switch of User Switch	-	1-	1-	1-	1-	F	- 1-	- 🗸	1-	
		0:Disable, 1:Enable					1					
VfSw2	Integer	button "VfSW2" switch of User Switch	-	†=	1-	1-	1-	1-	<u> </u>	- 🗸	1-	t-
_		0:Disable, 1:Enable					1	1				
reaming		(Streaming function)	✓	√	√	/	1	/	✓ 、	/ /	/	7
	Integer	switch 0:Disable, 1:Enable	- 1-	Ė	Ė	Ė	Ė	Ė	H	- 1	1	ť
		Display Value of Streaming 0:Disable, 1:Enable		†	+	+	†=	┢	1_1.		1	t
		button "ON" switch of Streaming 0:Disable, 1:Enable	√	1/	1/	+	+		士	/ /	1/	t
Off		button "OFF" switch of Streaming 0:Disable, 1:Enable	√ √	1/	<i>_</i>	Ė	H		H	/ ·/	-\v	Ľ
sptv	integer	(Display function)	- 1	V	· /	-	-	Ŧ,	 	- `	+	ť
Sptv On	Intoger		√ √	V		٧	٧	٧	<u>'</u>	#		F
Off		button "ON" switch of Display 0:Disable, 1:Enable		V	╀	· ·			'	#	 	۲
-	integer	button "OFF" switch of Display 0:Disable, 1:Enable	✓	√	ļ-	√	✓	√	-	Ŧ	<u> </u>	F
aracterMix	,	(Character mix function)		#		丰	누	ᄪ	1-1-	- 🗸	- √	F
Sdi	Integer	button "SDI" switch of CharacterMix	-	1-	√	1-	1-	1-	- -	- <	√	1-
i		0:Disable, 1:Enable						1 '	1 1		1	1

Hdmi	Integer	button "HDMI" switch of CharacterMix		$\exists T$	- 1	/ -	-T-	- -	T	T- T	✓ .	/ -	=
		0:Disable, 1:Enable									.		
Video	Integer	button "Video" switch of CharacterMix			_ 、	/ -	-1-	-1-	1-	1=1	✓ .	/ -	=
1.000		0:Disable, 1:Enable											
Menu		(Menu function)	[.	✓ 、	/ \	/ /	/ /	′ ✓	✓	✓	✓ .	/ \	<u></u>
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			✓ 、	/ 、	/ /	/ /	′ ✓	√	1	✓ 、	/ \	7
Set	Integer	button "SET" switch of Menu 0:Disable, 1:Enable		√ \	/ \	/ /	/ /	· 🗸	√	1	✓ 、	/ \	7
Cancel	Integer	button "CANCEL" switch of Menu 0:Disable, 1:Enable		√ \	/ \	/ /	/ /		V	/	√ .	/ \	<u></u>
Up	Integer	button " 1" switch of Menu 0:Disable, 1:Enable		<i>/</i> \	/ \	/ /	/ /		1	1	/	/ \	/
Down	Integer	button "↓" switch of Menu 0:Disable, 1:Enable		/ \	/ \	/ /	/ /		/	1	1	/ \	
Left	Integer	button "←" switch of Menu 0:Disable, 1:Enable	1	7	7	/	/ ·	- 7	./	./	./	/ .	
Right	Integer	button "" switch of Menu 0:Disable, 1:Enable		+	7	/ \	- 	+	'	 	`	/	-
Luminance	integer	(Luminance function)						Ť	Ť	Ľ	<u>`</u>	_ `	'
Enable	Integer	switch 0:Disable, 1:Enable		井	\dashv	+	+	干	干	\vdash	7		_
StatusDisp	-			7	4	#	#	#	干	╀	-	=+	_
				끅	4	_	+	干	丰	₽	-	_ -	_
Up		button ">" switch of Luminance 0:Disable, 1:Enable		4	4	#	4	#	丰	₽	_	_ \	_
Down	integer	button "<" switch of Luminance 0:Disable, 1:Enable		4	4	4	4	#	丰	╀	_	_ \	<u> </u>
Saturation		(Saturation function)		4	4		4	4	丰	ㅗ	_	_ \	/
Enable	Integer	switch 0:Disable, 1:Enable		4	4		4	ᄪ	丰	1-1	_	_ -	=
StatusDisp		Display Value of Saturation 0:Disable, 1:Enable		4	4	#	4	ㅗ	ㅗ	ㅗ		_ -	=
Up				=	4	ᅶ	ᅶ		上	_	<u>-</u>	- \	/
Down	Integer	button "<" switch of Saturation 0:Disable, 1:Enable		긔:	긔:			ᆣ	上	_		- \	/
Contrast		(Contrast function)		듸:	ᆜ-			<u>- -</u>	느	_		- 、	1
Enable	Integer	switch 0:Disable, 1:Enable		<u> </u>	_ -	- -		<u> </u>		_	<u> </u>	_ -	_
StatusDisp	Integer	Display Value of Contrast 0:Disable, 1:Enable		<u> </u>	_ -		- -	<u>- -</u>	_	_	_	_ -	_
Up	Integer	button ">" switch of Contrast 0:Disable, 1:Enable				- -	- -	<u>- -</u>	上	_		- \	/
Down	Integer	button "<" switch of Contrast 0:Disable, 1:Enable		<u>- l</u>	- -	- -	- -	<u>- -</u>	<u> </u>	_		- \	/
Sharpness		(Sharpness function)		<u> </u>	<u> </u>	_ -		- -		_		- \	√
Enable	Integer	switch 0:Disable, 1:Enable		-1	-Ţ.	- [-	- -	- -	T-	I – I	_ T	- [-	-
StatusDisp	Integer	Display Value of Sharpness 0:Disable, 1:Enable		- ∏	-1-	- -	-T-	-T-	T-	T- I	-T	- [-	Ξ
Up	Integer	button ">" switch of Sharpness 0:Disable, 1:Enable		- [- T∙	-T-	-T-	-T-	T-	I – I	=T	- \	/
Down	Integer	button "<" switch of Sharpness 0:Disable, 1:Enable		-1	-1-	- -	- -	-1-	1-	1-1	-1	- 、	/
Hue		(Hue function)			-1-	- -	-1-	-1-	1-	1-1	-1	- 、	/
Enable	Integer	switch 0:Disable, 1:Enable		寸.	二.	-1-	-1-	- -	1-	1-1	_		_
StatusDisp	Integer	Display Value of Hue 0:Disable, 1:Enable		_		_ -	_†-	-1-	1-	1-1	=1	_	_
Up		button ">" switch of Hue 0:Disable, 1:Enable		寸	#	_†-	=1-	-1-	1=	1=1	=1	_ \	_
Down		button "<" switch of Hue 0:Disable, 1:Enable		寸	_†.	_ -	_†-	- -	<u>†</u>	1_1	=†	_ (_
Flip		(Flip function)		_			_†-	-1-	+	1_1	$=$ \dagger	_ ,	
Enable	Integer	switch 0:Disable, 1:Enable		_			#-	+-	+	+-+		_ `	_
StatusDisp		Display Value of Flip 0:Disable, 1:Enable		_		==	_+	+-	+	†_†	_	_	=
Up		button ">" switch of Flip 0:Disable, 1:Enable		\pm	_+.	_+	+	+-	╁	╁┼	\pm	_	_
Down		button "<" switch of Flip 0:Disable, 1:Enable		\pm	_+.	_+	+	+-	╁	╁┼	\pm	_	_
Mirror	integer	(Mirror function)		\dashv	+	4	+	+	干	\vdash	\dashv	-	-
Enable	Integer	switch 0:Disable, 1:Enable		7	4	4	4	干	丰	₽	7	_ \	_
		'		4	4	#	#	#	丰	₽	7	=	_
StatusDisp		Display Value of Mirror 0:Disable, 1:Enable		4	4	4	#	#	丰	╀┤	4	4	_
Up	Integer	button ">" switch of Mirror 0:Disable, 1:Enable		4	4	4	4	丰	丰	丰	4	_ \	1
Down	Integer	button "<" switch of Mirror 0:Disable, 1:Enable		<u>ب</u>	<u>;</u>	<u>;</u> -	#	#	丰	盰	<u> </u>	<u> </u>	√
tonString		(String of button name)		<u> </u>		/ /			√	ᄪ	✓ 、	/ -	_
Gain		(Button of gain)		• •		/ /	_	_	✓		✓ 、	/ -	_
L	String	String of Low gain button		√ 、		/ /	/ \	·	✓	ᆜ	✓ 、	/ -	_
M	String	String of Middle gain button		/ ,		/ /	/ /	′ √	√		✓ 、	/ -	_
H	String	String of High gain button		✓ .	/ \	/ /	/ /	√	✓	1-1	✓ .	/ -	_

Jser		(Button of user switch allocation)	✓	✓	√ √	/ /	✓	√ -	- 🗸	✓	Ŀ
Sw0	String	String of User switch 0	_	-	- [-	- -	-	- [-	- 🗸	_	Γ
		"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" /									ı
		"Preset Zoom 1" / "Preset Zoom 2" / "Preset Zoom 3" /									ı
		"LCD Backlight" / "Flash Band" / "One Push Focus" /									ı
		"One Push Iris" / "Expanded Focus" /									ı
		"Live Streaming" / "Auto Focus" / "Histogram" /									ı
		"AWB" / "Rec" / "Return Video"									ı
Sw1	String	String of User switch 2. Same as above.	✓	✓	✓ ✓	′ √	✓	√ -	- 🗸	✓	Ī
Sw2	String	String of User switch 2. Same as above.	✓	✓	✓ ✓	′ √	✓	√ -	- 🗸	✓	Ī
Sw3	String	String of User switch 3. Same as above.	✓	✓	✓ ✓	′ √	✓	√ -	- 🗸	✓	Ī
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.	_	-	✓ ✓	′ √	✓	√ -	- 🗸	✓	1
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.	_	-	- [-	- -	-	- [-	- -	✓	1
Sw13	String	String of User switch 13. Same as above.	_	-	- [-	- -	-	- [-	- -	✓	1
LensRet	String	String of User switch Lens Ret. Same as above.	_	-	✓ -	- -	-	- [-	- -	_	1
VfSw1	String	String of User Viewfinder switch1 Same as above.	_	-	- [-	- -	-	- [-	- 🗸	_	1
VfSw2	String	String of User Viewfinder switch2 Same as above.	_	-	- [-	- -	-	- [-	- 🗸	_	1
Vhb		(Button of White balance)	✓	✓	✓ ✓	′ √	✓	√ -	- 🗸	✓	1
Preset	String	String of Preset button	_	 	✓ _✓	′ √	✓	✓ -	- 🗸	✓	Ī
		"PRESET"/ "A" / "B" / "FAW"									
A	String	String of A button	-	-	✓ ✓	′ √	✓	√ -	- 🗸	✓	1
		"PRESET"/ "A" / "B" / "FAW"									
В	String	String of B button	-	-	✓ ✓	′ √	✓	√ -	- 🗸	✓	Ī
1		"PRESET"/ "A" / "B" / "FAW"						- 1		1	I

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

```
"Response" : {
"Requested" : "GetCamStatus" ,
"Result": "Success",
"Data" : {
 "Camera" : {
  "Status": "Standby", "Mode": "Camera", "RecMode": "Normal",
  "TC": "#########", "AspectRetio": "16:9", "WebAccess": "On"
 },
 "Fullauto" : {
  "Status" : "Auto"
 },
 "Iris" : {
  "Status" : "Auto" , "Value" : "0"
 },
 "Gain" : {
  "Status" : "Alc" , "Value" : "0"
 },
 "AeLevel" : {
  "Status": "AeOn", "Adjust": "On", "Value": "0"
 "Shutter" : {
  "Status" : "Eei" , "Value" : "0"
 },
 "Whb" : {
  "Status" : "Faw" , "Value" : "0" ,
  "WhPRScale": 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, "Close 2": 1, "Close 3": 1 "PushAuto": 1
 "Gain" : {
  "Status": 1, "StatusDisp": 1,
  "Manual": 1, "Agc": 1, "Lolux": 1, "Variable": 1, "L": 1, "M": 1, "H": 1,
  "Up1": 1, "Up2": 1, "Down1": 1, "Down2": 1,
 "AeLevel" : {
  "Status": 1, "StatusDisp": 1,
  "AeLevelUp": 1, "AeLevelDown": 1, "AdjustOn": 1, "AdjustOff": 1
},
 "Shutter" : {
  "Status": 1, "StatusDisp": 1,
  "Off": 1, "Manual": 1, "Step": 1, "Variable": 1, "Eei": 1,
  "Slower" : 1 . "Faster" : 1
}.
 "Whb" : {
  "Status": 1, "StatusDisp": 1,
  "Manual": 1, "Faw": 1, "Preset": 1, "A": 1, "B": 1, "Adjust": 1,
  "WhPaintRP": 1, "WhPaintRM": 1, "WhPaintBP": 1, "WhPaintBM": 1
 "Zoom" : {
  "Status": 1, "StatusDisp": 1,
  "Tele1": 1, "Tele2": 1, "Tele3": 1, "Wide1": 1, "Wide2": 1, "Wide3": 1,
  "Tele": 1, "Wide": 1,
  "Preset": 1, "Clear": 1, "Preset1": 1, "Preset2": 1, "Preset3": 1
},
 "Focus" : {
  "Status": 1, "StatusDisp": 1,
  "Manual": 1, "Auto": 1,
  "Far1": 1, "Far2": 1, "Far3": 1, "Near1": 1, "Near2": 1, "Near3": 1,
  "Infinity": 1, "PushAuto": 1
},
 "User" : {
  "Sw1": 1, "Sw2": 1, "Sw3": 1, "Sw4": 1, "Sw5": 1, "SDw6": 1,
  "Sw7": 1, "Sw8": 1, "Sw9": 1, "Sw10": 1, "Sw11": 1, "LensRet": 1
 "Streaming" : {
  "On": 1, "Off": 1
},
```

```
"Disptv" : {
   "On": 1, "Off": 1
 },
  "CharacterMix" : {
   "Sdi": 1, "Hdmi": 1, "Video": 1
  "Menu" : {
   "Display" : 1 , "Status" : 1 ,
   "Menu": 1, "Set": 1, "Cancel": 1,
   "Up": 1, "Down": 1, "Left": 1, "Right": 1
},
"ButtonString" : {
  "Gain" : {
  "L": "0dB", "M": "6dB", "H": "12dB"
  "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

Κe	∍y	Style	Value	HM650	HM660	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC900	HC5xU PZ400	PZ200
Re	equest											\Box	
	Command	String	SetCamCtrl	✓	✓ .	✓ .	1 1	✓	✓	✓	✓ ✓	/ -	-
	SessionID	String	(Session ID in cookie.)	✓	✓ .	✓ .	1 1	✓	✓	✓	✓ ✓	/ -	-
	Params											\Box	
	CamCtrl	String	Camera Control	✓	✓ .	✓ .	√	✓	✓	✓	✓ ✓	′ –	-
			"Rec":recording start / "Stop":recording stop										

```
Example

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

Response

9	Key	Style	Value	HW6	HW6	HW8	HM2	HM2	LS3(PZ1(E E	PZ4(PZZ
	Response				П								
	Requested	String	SetCamCtrl	^	√	✓	√ √	. ^	✓	✓ .	/ /		-7
	Result	String	(Result of command processing.)	^	√	✓	√ √	. <	✓	✓ .	/ /	· - -	-1

```
{
    "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

Ke	у	Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	НС900	HC5x0	PZ200
Re	quest				П			П	Т			T	\Box
	Command	String	SetZoomCtrl	✓	✓	✓	√ ✓	. 🗸	✓	✓	–	√ √	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	✓ ✓		✓	✓		√ √	✓
	Params				П			П	Т			T	\Box
	Position	Integer	Zoom position "0"~"499"	✓	✓	✓	√ ✓	/	✓	✓	– ,	√ √	✓

Example

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

Response

 Key		Style	Value	ĬH.	HW	ΨW	HM	H	ES3	PZ1	HC9	HC5 PZ4	PZ2
Respo	onse												
Re	equested	String	SetZoomCtrl	✓	✓	✓	✓ .	1 1	′ √	✓	- ,	/ /	✓
Re	esult	String	(Result of command processing.)	√	✓	✓	✓ .	1 1	· 🗸	✓	- ,	/ /	✓

```
"Response": {
    "Requested": "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

Ke	у	Style	Value	HW6	HW6	₩ H	HM2	HM2	LS3(PZ1(69 H	HC5 PZ4	PZ2(
Re	quest								Ī	\prod			\Box
	Command	String	SetStreamingCtrl	✓	✓	✓	√ ✓	✓	✓	✓	✓ .	/ /	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	√ ✓	✓	✓	✓	✓ .	/ /	✓
	Params								Ī	\prod			\Box
	Streaming	String	Streaming Control	✓	✓	✓	√ √	✓	✓	✓	✓ .	/ /	✓
			"On":streaming start / "Off":streaming stop							1	1		

50 60 60 60 60 60 60 70 70 70

Example

```
### Tequest": {

"Request": {

"Command": "SetStreamingCtrl",

"SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",

"Params": {

"Streaming": "On"

}

}
```

,	Key	Style	Value	9МН	9МН	HM8	HM2	HM2 HM3	LS3(PZ1(65H	HC5 PZ4(PZ2(
	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

K	еу		Style	Value	HWe	HWE	HW	HWZ	HWZ	HWZ	LS3	PZ1	HG.	PZ4	PZ2
R	eque	est													
	Co	mmand	String	SetTallyLampCtrl	✓	✓	✓	✓	✓	√ ,	/ /	/ /	✓	✓	_
	Se	ssionID	String	(Session ID in cookie.)	✓	✓	✓	✓	✓	✓	/ /	/ /	✓	✓	_
	Pa	rams													
		Sw	String	Tarry lamp Control "On"(The order turns on LED) / "Off"(The order turns off LED) /	√ 	✓	✓	√	✓ .	✓ 、	/ v	/ /	✓	✓	_

50 60 60 60 60 60 60 60 60

```
Example

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

Response

Э	Key	Style Value	HM6	HM6	HM8	HM2	N N	LS3	PZ1	5 H	PZ4	PZ2
	Response											
	Requested	String SetTallyLampCtrl	✓	/	✓	✓ _∨	/ /	✓	✓	✓ _∨	/ /	-
	Result	String (Result of command processing.)	✓	✓	\	√ v	∕ √	✓	✓	√ v	/ /	

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

Issue a button event

Request

,	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	PZ100	HC5x0	5Z400
uest			Г		Ť	Τ	\Box		ĒΤ	T	T	T
Command	String	SetWebButtonEvent	✓	√	✓	√	✓	✓	✓ .	√ √	1	✓
SessionID	String	(Session ID in cookie.)	✓	√	√	√	✓		✓ .	/ /	1	V
Params		(Button parameter is selected by Kind parameter)	H		t		Ħ	Ħ	ΠŤ	\top	+	T
Kind	String	Kind of button event	H		<u>†</u>	1	H	H	ſΤ	\dashv	+	t
		"Fullauto"	/	1	/	/	√	1	√	- 🗸	1	†=
		"Iris"	✓	✓	/	<i></i>	√		_	√ √		1
		"Gain"	✓	✓	/	<i></i>	√		_	√ √		1
		"AeLevel"	✓	✓	/	/	√		_	<i>J J</i>		Ė
		"Shutter"	· ✓	1	1	1	<i>'</i>	•	-	/ /		1/
		"Whb"	<i>√</i>	./	-	./	1	-	√ .	./ ./	1,/	1./
		"Zoom"	√ ✓	./	./	./	√ ✓	-	√ .	<i>y y</i>		1./
		"Focus"	√ ✓	/	'	'	<i>y</i>	•	<i>y</i>	/ /	'	'
			∨	<u>'</u>	<i></i>	'	•	•	•	v v √ √	+	Ť
		"User"	√ √	· /	√ √	<u>'</u>	√ √	-		v v √ √	_	Ŧ
		"Disptv"	√ √	· /	'	<u>'</u>	√ √		√ ·	v v v		+
		"Menu"	✓ ✓	<u> </u>	Ļ	/	√ √	-	-	√ √ √ √	-	
		"Rec"	~	<u> </u>	Ļ	<u> </u>	-	•	√ .	• •	-	+
		"MasterBlack"	ᆜ	✓	√	<u> </u>	√	√	러	- ✓	_	‡
		"Detail"	ᆸ	✓	✓	✓	√	√	-	√ √		‡
		"Exposure"		드	ㅗ	ᆫ	ᆜ	ᆸ	-	✓ –	丰	✓
		"SpeedWithZoom"	\perp	ഥ	ㅗ	ㅗ	ᆜ	_	ᆸ	√ -	ᆂ	
		"Bright"		느	ᆫ	ᆫ			니	ᆂ	ᆂ	
		"Luminance"		ഥ	ᆫ	ᆫ	ᆜ	ᆸ	↤	ᆂ	ᆂ	^
		"Saturation"	_	느	느	느		_	ᆸ	_ -	<u> </u>	~
		"Contrast"	_	<u> -</u>	上	_	_	-	ᆫ	_ -	<u> </u>	V
		"Sharpness"	_	_	_	_	_	-	ᆸ	_ -	<u> </u>	√
		"Hue"	_	L	L	_	_	_		<u>- -</u>	· —	V
		"Flip"	_	_	_	_	_	-	<u>ı — </u>	<u> </u>	· —	V
		"Mirror"	-	_	_	_	-	-		- -	·]_	>
Button	String	Fullauto event							i			T
		"On" / "Off"	✓	✓	✓	✓	✓	✓	✓	- 🗸	✓	T-
		"Preset"	_	_	-	_	-	— I	✓	-1-	-T-	T-
		Exposure event							ī		T	T
		"Auto"/ "Manual" / "IrisPriority" (AAE on PZ400/200) / "ShutterPriority" (SAE on PZ400/200) / "Bright" (only PZ		_	-	_	-	— I	ı — T	√ -	-T-	V
		Iris event							П			T
		"Manual" / "Auto"	✓	✓	✓	√	✓	✓	✓	- 🗸	√	T-
		"Open1"	✓	✓	✓	√	✓	✓	✓ .	√ √	√	~
		"Open2"	✓	√	√	√	✓	✓	✓	- 🗸	√	1-
		"Open3"	✓	√	✓	√	✓	✓	✓	- 🗸	V	1-
		"Close1"	✓	√	√	√	✓	✓	✓ .	1 1	V	1
1		"Close2"	√	✓	√	√	√	√	√	- 🗸	_/	T-
1		"Close3"	√	√	✓	/	√		√	- /	V	†=
		"PushAuto"	· ✓	√	√	/	√	<i>'</i>	/	=1-	/	†=
			۰	H	÷	÷	H	\vdash	\leftarrow	+	÷	+
		Gain event	1 1	ļ								
		Gain event "Alc"	/	✓	⊨	┢	\vdash	_	_	+	\pm	+
		Gain event "Alc" "Lolux"	√ √	√ √	-		−		-	 - \		1-

"Variable"		Œ	Ŀ		E	Œ	✓	E			\equiv
"Up1"	-	/	✓	✓	✓	✓	✓	✓	✓	√	✓
"Up2"	-	- -	1-	-	-	_	✓	- I	-	-	-
"Down1"	-		✓	✓	✓	✓	✓	✓	✓	✓	✓
"Down2"	-	- -	1-	-	-	_	✓	Г		[-]	_
"Manual" / "Auto"	-	- -	1-	_	_	_	_		_	-	_
AeLevel event											
"AeLevelUp" / "AeLevelDown"	√	√	√	√	√	√	√	厂	√	√	=
"AdjustOn" / "AdjustOff"	-	1=	1-	√	√	√	√	厂	√	√	$\overline{}$
"Up" / "Down"	-	- -	†-	1-	-	_	_	/	H		_
Shutter event			1					H		H	
"Off"		/	/	+	-	_		ㄷ	\Box		_
"Step"		. T_	Ţ	/	1	./	./	⊏	1	./	_
"Variable"		+	1	√ ✓	√ √	<i>\</i>	√ ✓	ᆫ	√ ✓	√ ✓	_
"Manual"		/	Ľ	<u> </u>	<u> </u>	Ľ	_	H	_	Ľ	_
"Eei"	v	<u> </u>	_	_	_ _		_	F		_	_
"Slower"			· /	√ √	√ √	√ √	√ √	F	√ √	√ √	_
"Faster"			√ ✓	√ √	√ √	√ √	√ √	✓ ✓	√	√ √	<u> </u>
	V		V	V	V	V	V	_	~	_	_
Whb event	./	٠,	+	-	-	-	\vdash	H	Н	\vdash	
"Faw"	·	V	Ψ,	<u> </u>	ļ-	<u> </u>	_	\vdash	Ļ	H	_
"Preset" / "A" / "B"	✓	_	√	√	√	✓	✓.	F	✓.	✓	_
"Adjust" (Awb trigger when PZ100, OnePush trigger when PZ400/200)	✓	_	✓	√	✓.	✓.	✓	✓	✓.	✓	✓
"WhPaintRP"/"WhPaintRM"	✓	✓	✓	✓	✓	✓	✓	L	✓	✓	✓
"WhPaintBP"/"WhPaintBM"	√	√	✓	√	✓	✓	√	드	✓	\checkmark	✓_
"Awb"	-	1-	μ-	_	_	느	-	✓		\Box	_
"3200K"				_	-	ᆫ	_	✓		Ш	_
"5600K"	-	<u> </u>	_	-	_	_	-	✓	_	_	_
"Manual"	-	<u> </u>	_	_	_	_	-	✓	_	_	✓
"Auto"		<u> </u>		_	_	<u> </u>	_	L	-		✓
"Indoor"	_	· -	_	_	_	_	_	L		느	✓
"Outdoor"		· -	_	_	_	_	-	_	_	_	✓
"OnePush"	-	· -	_	_	_	L_	_	Ŀ	_		✓
Zoom event											1
"Tele1" / "Tele2" / "Tele3"	√	✓	✓	✓	✓	✓	✓	\	✓	✓	✓
"Wide1" / "Wide2" / "Wide3"	√	✓	✓	✓	✓	✓	✓	\	✓	✓	✓
"Stop"	-		-	_	-	_	_	✓	-	-	✓
* "Tele" or "Wide" events need "Stop" in KY-PZ100 / PZ400 / PZ200.								1		1	ì
Focus event											
"Manual" / "Auto"	✓	✓	✓	√	✓	✓	✓	✓	_	✓	✓
"Far1" / "Far2" / "Far3" / "Near1" / "Near2"/ "Near3"	√	✓	√	√	√	√	√	√	✓	✓	√
"Infinity"	√	✓	1-	-	-	1-	-	[-	 	[-]	_
"PushAuto"	√	✓	/	√	√	✓	√	/	_	√	√
"Stop"	-	1-	1-	_	_	-		√	1-1		√
*"Far" or "Near" events need "Stop" in KY-PZ100.										1	1
MasterBlack event			+			_	H	H	H	H	
"Up1" / "Up2" / "Up3" / "Down1" / "Down2"/ "Down3"	_		/	1	1	./		H	1	./	_
User event		Ť	Ť	Ť	Ť	Ť	\vdash	H	Ť	H	
"Sw0"		+	./	+	 -	┢		ᆫ	./		_
"Sw1" / "Sw2" / "Sw3" / "Sw4" / "Sw5" / "Sw6" / "Sw7"		-	√ ✓	_ _	_ ✓	_ ✓		屵	√	_ ✓	Ξ
"Sw8"			√ √	√ √	√ √	√ √	√ √	Ë	√ √	√ √	_
	-	+	√ √	√ √	√ √	√ √	√ ./	Ë	✓ _	√ √	_
"Sw9"		∓	Y	V	'	'	٧_	戸	H	V	_
"Sw10"		+	\ <u>'</u>	丰	Ε.	F	V	<u> </u>	H	V	_
"Sw11"	-	1	✓	1-	ᆮ	ட	Щ	F	H	√.	_
"Sw12" / "Sw13"		<u> </u>	ᆫ	ᆫ		ഥ	<u> </u>		<u> </u> –	✓	_

"LensRet"	_	-	✓	_	-	_	_	_	✓	-	_	_
"Sub1" / "Sub2" / "Sub3"	_	-	-	_	-	-	-	✓	-	-	- 1	-
"VfSw1" / "VfSw2"	_	-	-	-	-	_	-	-	✓	—		-
Disptv event												
"On":(Display on TV) / "Off":(Display on TV)	✓	✓	_	✓	✓	✓	✓	_	_	-	_	-
"Sdi":(Character Mix)	_	-	✓	-	_	_	_	-	✓	✓		-
"Hdmi":(Character Mix)	-	-	\	ı	_	_	_	-	✓	✓	- [-
"Video":(Character Mix)	-	-	<	-	-	-	-	_	\	✓	- [_
Menu event												
"Display":(Menu) / "Status":(Menu) /	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-1	=
"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	✓	✓	/	√	✓	✓	✓	✓	✓	✓	-1	_
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"	-	- 1	_	-	-	 	<u> </u>	-	-	-	√	/
Flip event												
"On" / "Off"	_	- 1	_	_	-	-	<u> </u>	-	-	-	√	/
Mirror event												
"On" / "Off"	_	_	_	_	_	_	_	_	_	- 1	√	/

Response

•	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300 P7100	HC900	HC5x0	P2400 PZ200	
	Response													1
	Requested	String	SetWebButtonEvent	✓	✓	✓	✓	✓	√	/ \	. <	✓ ✓	/ /	1
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓	√	/ \	. <	✓ ✓	/ /	1

```
{
    "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	9WH	9WH	HW8	H MZ	HMZ	LS3(PZ1(HC3	PZ4	PZ2(
Red	quest							T	Ī	\prod		T	\prod
	Command	String	SetWebSliderEvent	✓	✓	✓ 、	/ /	✓	✓	✓	√ √	/	✓
	SessionID	String	(Session ID in cookie.)	✓	✓	✓ 、	/ /	✓	✓	✓	√ √	/	✓
	Params							T	Ī	\prod		T	
	Kind	String	Kind of Slider event					T	Ī	\prod		T	
			" ZoomBar "	✓	✓	✓ 、	/ /	✓	✓	✓	- 🗸	/	✓
			" IrisBar "	-	-	- -	- [-	- -	_	-	√ √	′ -	-
	Position	Integer	Slider event					T	Ī	\prod		T	
			ZoomBar 0~499:Zoom position	✓	✓	✓ 、	/ /	✓	✓	✓	- 🗸	/	✓
			IrisBar 0~255:Iris position	-	-	- -	- [-	- -	_	-	√ √	′ -	-

550 550 500 500 500 500 500 500

```
Example

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

Ke	⊋y	Style	Value	HM650	099WH	HM8x0	HM25x	HM280	TS300	PZ100	HC5x0	PZ400	PZ200
Re	esponse												
	Requested	String	SetWebSliderEvent	✓	✓ ,	/ /	′ √	✓	✓	✓ v	/ /	✓	✓
	Result	String	(Result of command processing.)	✓	✓ 、	/ /	′ √	✓	✓	✓ _∨	/ /	✓	✓

```
Example

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

Issue a two-dimensional slider event

Request

Key		Style	Value	HM650	099WH	HM8x0	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZ200
Requ	ıest					П							
С	ommand	String	SetWebXYFieldEvent	✓	✓	V V	· 🗸	✓	✓	✓ 、	/ /	✓	✓
S	essionID	String	(Session ID in cookie.)	✓	✓	V V	· 🗸	✓	✓	✓ 、	/ /	✓	✓
Р	arams					П							
	Kind	String	Kind of XYField event	✓	\	1	/ /	✓	✓	✓ 、	/ /	✓	✓
			"WhPaintRB ":White paint R and B			1							
	XPosition	Integer	XYField event	✓	\	1	· 🗸	✓	✓	✓ 、	/ /	✓	✓
			WhPaintRB "0"~"64" (White paint B position) (PZ400/200: Max value of Whb Auto is 20, Whb manual is 25	55)		1							İ
	YPosition	Integer	XYField event	✓	\	1	/ /	✓	✓	✓ 、	/ /	✓	✓
			WhPaintRB "0"~"64" (White paint R position) (PZ400/200: Max value of Whb Auto is 20, Whb manual is 25	55)									

Example

Response

K	ey	Style	Value	HM650	HM660	HM8x0	HM200	HM25x	HM280	LS300	HC900	HC5x0	PZ400	PZ200
R	esponse												П	
	Requested	String	SetWebXYFieldEvent	✓	✓	✓	✓	✓ .	/ \	/ /	′ √	✓	✓	√
	Result	String	(Result of command processing.)	✓	✓	✓	✓	✓ .	/ \	/ /	′ √	✓	✓	√

```
Response": {

"Requested": "SetWebXYFieldEvent",

"Result": "Success"
}
}
```

Request location information of camera GPS function.

Request

Ke	еу	Style	Value	HWe	HWe	Ψ̈́	E E	HM2	LS3	PZ1 HC9	HC5	PZ4 PZ2
Re	equest											
	Command	String	GetGPSInfo	✓	✓	✓	- -	_	- I	- 🗸	✓	- -
	SessionID	String	(Session ID in cookie.)	✓	✓	✓	- -	_	-	- 🗸	✓	- -

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

Response

Key		Style	Value	981	9WH	. ₩ H	HM2	HWS	1 S3(PZ1	HC9	PZ4	PZ2
Resp	oonse												
R	equested	String	GetGPSInfo	√	✓	✓	-	- -	- [-	-	✓ ✓	<u> </u>	_
R	esult	String	(Result of command processing.)	√	✓	✓	— [- -	- [-	-	✓ ✓	<u> </u>	_
D	ata					T				\Box			
	AntennaLevel	String	"None" / "Lost" / "Searching" /	√	√	✓	-	- -	- [-	-	✓ ✓	<u> </u>	_
			"Level1" / "Level2" / "Level3"										
	Location	String	"+/-" <latitude>"+/-"<longitude>"+/-"<altitude>"/"</altitude></longitude></latitude>	√	✓	✓	-	- -	- [-	-	✓ ✓	<u> </u>	_
			Latitude +:North, -:South,										
			00.0000(min) - 90.00000(max)										
			Longitude +: East, -: West,										
			000.00000(min) - 179.999999(max)										
			Altitude +, -,										
			0.00000(min) - 9999999(max)										

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

```
{
    "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	099WH	HM8x0	HM200	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
Reque	est				П								
Čo	ommand	String	SeesawSwitchOperation	_	✓	✓ .	/ /	✓	1-	–	√	_	_
Se	essionID	String	(Session ID in cookie.)	_	✓	✓.	/ /	✓	—	-	✓ ✓	-	_
Pa	arams				П								
	Kind	String	Kind of Seesaw event	-	✓	✓ .	/ /	✓	1-		√	-	-
			"ZoomSeesaw" / "IrisSeesaw" / "MasterBlackSeesaw" /		ı								
			"FocusSeesaw"		ı								
	Direction	String	Zoom operation	-	√	✓ .	/ /	√	_	-	√ √	_	-
			"Stop" / "Wide" / "Tele"		ı								
			Iris operation		ı								
			"Open" / "Close" / "Stop"		ı								.
			MasterBlack operation		ı								.
			"Up" / "Down" / "Stop"		ı								
			Focus operation		ı								
			"Far" / "Near" / "Stop"		ı								1
	Speed	Integer	0 - 8	_	✓	✓ .	/ /	✓	_		√	-	-

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

Example

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

K	э у	Style	Value	HM650	099WH	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC5x0	PZ400	7222
R	esponse												٦
	Requested	String	SeesawSwitchOperation	-	\	✓ 、	/ /	✓	-		· 🗸	- -	-1
	Result	String	(Result of command processing.)	-	^	✓ 、	/ /	✓	-		/ /	T- T-	-7

```
Example

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

3.4.1. Set Pan Tilt Control

Pan / Tilt control command with direct position parameters.

Request

ey	Style	Value	HM650	099WH	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC5x0	PZ400	2277
equest												
Command	String	SetPTCtrl	_	— [=1-	- [-	_	-	✓ -	-	✓ ✓	
SessionID	String	(Session ID in cookie.)	_	_		- -	_	-	✓ -	- -	✓ ✓	
Params										\top		
PanDirection	String	"Stop" / "Left" / "Right" / "Home" / "Position"	_	_		- -	_	-	✓ -	- -	✓ ✓	
PanPosition		0(Back left limit) - 17540(Front) - 35080(Back right limit) PanPosition is valid when "PanDirection" is "Position".	_	_		- -			√ -		√ √	
PanSpeed	Integer	0 - 30	-	-	<u> </u>	- -	-	-	✓ -	- -	✓ ✓	Ī
TiltDirection	String	"Stop" / "Up" / "Down" / "Home" / "Position"	_	-	= [-	- -	_	_	✓ -	-	√ √	Ī
TiltPosition	Integer	0(Just above) - 9040(Just beside) - 12080(Diagonally downward) "TiltPosition" is valid when "TiltDirection" is "Position".	_		1				✓ -		√ √	
TiltSpeed	Integer	0 - 30	-	-	- -	- [-	-	_	✓ -	- -	✓ ✓	

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

Response

K	э у	Style	Value	HM650	099WH	HM8x0	HM200	HM25x	HM280	PZ100	HC900	HC5xU PZ400	PZ200
R	esponse							T					
	Requested	String	SetPTCtrl	-	-	-	- -	- [-	- [-	- 🗸		- 🗸	✓
	Result	String	(Result of command processing.)	-	-	-	- -	-T-	- [-	- 🗸		- 🗸	✓

Example { "Response": { "Requested": "SetPTCtrl", "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.

Request

Key		Style	Value	ЭМН	ЭМН	HM8	HMZ	HM2	rs30	PZ10 HCor	HC5	PZ40	PZZU
Request													
Comn	mand	String	JoyStickOperation	-	-	- [-	- -	_		✓ -	- -	✓ .	/
Sessi	onID	String	(Session ID in cookie.)	-	-	- [-	- -	_		✓ -	- -	✓ .	/
Param	าร												
Pa	nDirection	String	"Stop" / "Left" / "Right"	- [-	- [-	- -	-	- ,	✓ -	- [-	✓ ,	/
Pa	nSpeed	Integer	0 - 30	- [-	- [-	- -	-	- ,	✓ -	- [-	✓ ,	/
Til	tDirection	String	"Stop" / "Up" / "Down"	-	-	- -	- [-	-	- ,	✓ -	- -	✓ ,	/
Til	tSpeed	Integer	0 - 30	_	-	-	- -	_	- ,	✓ -	- -	✓ ,	/

Example

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

Response

Ke	y	Style	Value	HM650	099WH	HM8x0	HM200 HM25x	HM280	LS300	PZ100 HC900	HC5x0	P2400
Re	sponse										T	
	Requested	String	JoyStickOperation	-	_	- [- -	_	-	/ -	- 🗸	′ ✓
	Result	String	(Result of command processing.)	_	_	-	- -	_	-	/ -	- 🗸	/ /

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

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

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	HM25x	HM280	PZ100	НС900	HC5x0 PZ400	PZ200
Requ	uest												\Box
С	Command	String	ZoomSwitchOperation	_	✓	✓	✓ .	/ \	/ -	- 🗸	✓ 、	/ /	✓
S	SessionID	String	(Session ID in cookie.)	_	✓	✓	✓ .	/ \	/ -	- 🗸	✓ 、	/ /	✓
P	arams												\Box
	Direction	String	"Stop" / "Wide" / "Tele"	_	✓	✓	✓ .	/ /	/ -	- 🗸	✓ 、	/ /	✓
	Speed	Integer	0 - 8	_	✓	✓	✓ .	/ /	/ -	- 🗸	✓ 、	/ /	✓

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

Example

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

Response

· Ł	Key	Style	Value	HM6	HW6	HW8	HM2	H WS H MS	rs30	PZ1(E CE	PZ4(PZ2(
F	Response												
	Requested	String	ZoomSwitchOperation	-	✓	✓ .	✓	/ /	T-	✓ 、	/ /	✓	√
	Result	String	(Result of command processing.)	-	✓	✓ ,	/ \	/ /	T-	✓ 、	/ /	✓	✓

```
Example

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

3.4.4. Set Pan / Tilt / Zoom preset

Control pan / tilt / zoom preset position.

Request

Key	y		Style	Value	HM650	099WH	HM8x0	HM200	HM25x	HM280	PZ100	НС900	HC5x0 PZ400	PZ200
Re	que	est												
	Со	mmand	String	SetPTZPreset	-	-	-	- -	- [-	- [-	. <	 - -	- 🗸	✓
	Se	essionID	String	(Session ID in cookie.)	-	-	-	- -	- [-	- [-	. <	 - -	- 🗸	✓
	Pa	rams						1						
		_	Integer	1 - 100(Number of preset position) / 1 - 255(Number of preset position in case of PZ400/200)	-	-	-	- -	- [-	- [-	- 🗸	- -	- 🗸	✓
		Operation	String	"Move"(Move to preset position)	-	-	-	- -	- [-	- [-	- 🗸	- -	- 🗸	✓
				"Set" (Current position is stored)				.						
				"Delete"(Delete the preset position)				Ш						

Example

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

Response

K	еу	Style	Value	Ψ̈́	H	₩	Ψ	Ĭ i	E S	PZ1	5 H	PZ4	PZ2
R	esponse											Т	\Box
	Requested	String	SetPTZPreset	-	-	-	– [- [-	- [-	- 🗸	- -	- 🗸	✓
	Result	String	(Result of command processing.)	-	-	-	– [- [-	- [-	- 🗸	- -	- 🗸	✓

550 560 560 600 600 600

```
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

K	еу	Style	Value	HWe	HW	Η	HMS	HM2	LS3	57 SH	HG5	PZ4
R	equest				П							
	Command	String	GetCamStatusMinimum	- 1	- 1	- 1	- -	-		/ -	- ,	1 1
	SessionID	String	(Session ID in cookie.)	_			- -	_		/ -	- ,	V V

```
Example

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

ey	Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	HC900	PZ400	PZ200
esponse							floor			\Box		
Requested	String	GetCamStatusMinimum	-	-	-	= [-	- [-	T-	✓	- -	- 🗸	✓
Result	String	(Result of command processing.)	-	-	-	- -	- [-	T-	✓	- -	- 🗸	✓
Data												
Camera		(Camera)								П	П	
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"	_	-	— [- -	- -	T-	✓	- -	- 🗸	✓
MenuStatus	String	"On" / "Off"	_	-	-	_ -	- -	_	✓	<u> </u>	- 🗸	✓
Exposure										П	П	
Status	String	"Auto" / "Manual" / "IrisPriority" / "ShutterPriority"	-	-	- 1	- T-	- -	_	✓	- -	- 🗸	✓
		"Bright"	_	-	- 1	- -	- -	_	_	- -	- 🗸	✓
Iris										П	П	
Status	String	"Auto" / "Manual"	-	-	- 1	- T-	- -	_	✓	<u>-T-</u>	- 🗸	✓
Value	String	Character string for iris value	-	-	- 1	- T-	- -	_	✓	<u>-T-</u>	- 🗸	✓
Shutter										П	П	Т
Status	String	"Auto" / "Manual"	_	_	-		- -	_	\		- 🗸	\
Value	String	Character string for Shutter value	_	_	_		- -	_	\		- 🗸	✓
Gain										П	П	
Status	String	"Auto" / "Manual"	-	-	- 1	<u> </u>	- [-	-	<	- -	- 🗸	✓
Value	String	Character string for gain value	_	_	_		- -	_	\	- -	- 🗸	✓
Ae <u>Level</u>										J		
Status	String	"AeOff" / "AeOn"	_	_	_		- -	_	✓	_ -	- [-	Ŀ
Value	String	Character string for AE level value	_	-	1-1	_ [-	- -	<u> </u>	✓	ı-T-	- T=	_

Nh <u>b</u>												
Status	String	"Faw" / OnePush" / "3200K" / "5600K" / "Manual"	-	-	-	-	- [-	- -	- 🗸	-	- [-	
		"OnePush" /"Manual" / "Auto" / "Indoor" / "Outdoor"	-	_	-	-	-1-	-T-	- -	-	- \	/
Value	String	Character string for White Balance value	-	_	-	-	_ -	- -	- 🗸	-	- \	/
WhPRScale	Integer	Slide bar total length for White paint Red(0-255)	-	_	-	-	= [-	- -	- 🗸	1-1	- 、	/
WhPBScale	Integer	Slide bar total length for White paint Blue(0-255)	-	_	-	-		- -	- 🗸	 -	- \	/
WhPRPosition		Slide bar current position for White paint Red(0-255)	-	_	_	_	= -	====	- 🗸	1-1	- 、	7
WhPBPosition		Slide bar current position for White paint Blue(0-255)	1-	_	_	_	=†-		- 🗸	1_1	_ \	7
WhPRValue		Character string for White paint Red value	<u> </u>	_	_	_	_ -	_ -	- 🗸	1-1	- \	7
WhPBValue		Character string for White paint Blue value	<u> </u>	_	_	_	=†-		- 🗸	1_1	_ \	- /
ocus		Onardotor String for Writte Paint Dide Value					\dashv	-	Ť		- 1	-
Status	String	"Auto" / "Manual"	+		_	_	=†.	_	/	1_1	_	7
Value		Character string for Focus value					=+	+	- 🗸	+	_ \	· ·/
Zoom	Ottling	Character string for Focus value	₩	_	$\overline{}$	=	4	4		₽	_ `	_
Position	Integer	7	-			-	+	_	- 🗸	+	-	/
	Integer	Zoom position (0-499)	μ_	_	_	_	#	4		-	_ \	_
)etail	0		-			_	$-\!\!\!\!+$	_	+.			_
Value	String	Character string for detail value	_	_	_	_	_	4	- 🗸	_	_	=
Bright							_					_
Value	String	Character string for Bright value	_	_	-	-		ᆂ	- -	_	- \	/
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"										
F-10-11	_	(Error occurred or waiting to start RTSP/RTP streaming and SRT Listener mode)	-			-	+	_		+	-	_
「allyLamp	Ctring	Disaits II Course and II (III Alab II	-		_	-	+	_	- 🗸	+	-	_
Priority		Priority "Camera" / "Web"	μ_	_	_	_	#	4	_	-	_	_
Lighting		Lighting "On" / "Off"	 -	_		_	#	#	- 🗸	-	_ 、	<u>-</u>
StudioTally		Status "Off" / "Program" / "Preview"	_	_	_	_	_	4	- 🗸	_	- \	_
nable		(Availability of function button switches)					_	_				_
Exposure		(Exposure function)					_	_				
Auto		button "Auto" switch of exposure 0:Disable, 1:Enable	_	_	-	-			- 🗸		- 、	/
Manual		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	-	_	-	-		-1-	- 🗸	-	- 、	/
		0:Disable, 1:Enable										
Bright		button "Bright" switch of exposure	-	_	_	_	_ -	-1-	- -	_	- \	/
9		0:Disable, 1:Enable										
Iris		(Iris function)	1			7	\dashv	+			+	-
Open1		button ">" switch of iris 0:Disable, 1:Enable				_	=+	_	- 🗸		_	-
Close1			E	H	_	=	+	#	- v - v	+-+	_	7
	mleger	button "<" switch of iris 0:Disable, 1:Enable	厂	H	H	-	#	4	- 🗸	\vdash	_ \	/
Gain	1	(Gain function)	<u> </u>			4	4	4	-	\sqcup		_
Auto		Display Value of gain 0:Disable, 1:Enable PZ400/200 always return 0.	<u> -</u>		_	-	_ֈ-	#	- 🗸	-	- \	/
Manual		button "MANUAL" switch of gain 0:Disable, 1:Enable PZ400/200 always return 0.	-	_	-	-	_ -		- 🗸	-	- \	/
Up1		button "Up1" switch of gain 0:Disable, 1:Enable	L	Ŀ	_	_	_ -		- 🗸		<u> </u>	/
Down1	Integer	button "Down1" switch of gain 0:Disable, 1:Enable										_

Ae	Level		(AE Level function)											
	Up	Integer	button "▲" switch of AElevel 0:Disable, 1:Enable	_	_	_	-	_	_	-	✓ .	- -	1-	1-
	Down	Integer	button "▼" switch of AElevel 0:Disable, 1:Enable	_	_	_	-	-	_	_	✓ .	- -	-	-
Sh	utter		(Shutter function)											T
	Slower	Integer	button "▲" switch of shatter 0:Disable, 1:Enable	_	_	_	-	_	_	-	✓ .	- -	√	✓
	Faster	Integer	button "▼" switch of shatter 0:Disable, 1:Enable	_	_	_	-	_	_	-	✓ .	- -	√	✓
Wŀ	nb		(White balance function)											T
	Faw	Integer	button "FAW" switch of White balance	_	_	_	-	_	_	-	✓ .	- -	1-	1-
			0:Disable, 1:Enable											
	Auto	Integer	button "Auto" switch of White balance	_	_	_	-	-	_	_		- -	√	✓
			0:Disable, 1:Enable				1 1							
	Indoor	Integer	button "Indoor" switch of White balance	_	_	-	- 1	_	_	-		- -	/	✓
			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											
	Awb	Integer	button "AWB" 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											
	AwbTrigger	Integer	button "AWB trigger" switch of White balance. (In case of PZ400/200, this may Enable only in OnePush mode	_	_	_	_	_	_	_	✓ .	- -	√	√
	00		0:Disable, 1:Enable											
Foo	cus		(Focus function)											
	Manual	Integer	button "MANUAL" switch of focus 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	√	√
	Auto		button "AUTO" switch of focus 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	√	√
De	tail		(Detail function)											
	Up	Integer	button "ON" switch of Streaming 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	-	
	Down		button "OFF" switch of Streaming 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	-	_
Bri	ght		(Bright function)											
	Up	Integer	button "ON" switch of Bright 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	√	√
	Down		button "OFF" switch of Bright 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	√	√
Pre	eset		(Availability of preset number)											T
	1	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	_	_	_	_	_	_	_	✓ .	- -	√	√
	2		PTZ preset number is operatable. 0:Disable, 1:Enable	_	_	_		_	_	_	✓ .	- -	√	√
														T
	#	Integer	PTZ preset number is operatable. 0:Disable, 1:Enable	_	_	_		_	_	_	✓ .	- -	√	√
	100		PTZ preset number is operatable. 0:Disable. 1:Enable	_	<u> </u>	_		_	_	_	✓ .	-1-	V	/

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

```
},
  "AeLevel" : {
   "Up" : 1 ,"Down" : 1
 },
  "Shutter" : {
   "Slower" : 1 ,"Faster" : 1
 "Whb" : {
  "Faw": 1, "Manual": 1, "OnePush": 1, "K3200": 1, "K5600": 1, "OnePushTrigger": 1
 },
  "Focus" : {
   "Auto" : 1 , "Manual" : 1
  "Detail" : {
   "Up": 1,"Down": 1
 },
 "Preset" : {
  "1":1, "2":1, "3":1, "4":1, "5":1, "6":1, "7":1, "8":1, "9":1, "10":1,
  "11": 1, "12": 1, "13": 1, "14": 1, "15": 1, "16": 1, "17": 1, "18": 1, "19": 1, "20": 1,
  "21": 1, "22": 1, "23": 1, "24": 1, "25": 1, "26": 1, "27": 1, "28": 1, "29": 1, "30": 1,
  "31": 1, "32": 1, "33": 1, "34": 1, "35": 1, "36": 1, "37": 1, "38": 1, "39": 1, "40": 1,
  "41": 1, "42": 1, "43": 1, "44": 1, "45": 1, "46": 1, "47": 1, "48": 1, "49": 1, "50": 1,
  "51": 1, "52": 1, "53": 1, "54": 1, "55": 1, "56": 1, "57": 1, "58": 1, "59": 1, "60": 1,
  "61": 1, "62": 1, "63": 1, "64": 1, "65": 1, "66": 1, "67": 1, "68": 1, "69": 1, "70": 1,
  "71":1, "72":1, "73":1, "74":1, "75":1, "76":1, "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,
 },
}
```

Get Pan & Tilt positions

Request

Key	Style	Value	HM650	HM660	HM8x0	HM25x	HM280	LS300	PZ100	HC900	PZ400
Request											
Command	String	GetPTPosition	-	_	- [- -	_	-	✓	- -	- 🗸 🗸
SessionID	String	(Session ID in cookie.)	-	_	-	- -	-	-	✓	- -	- 🗸 🗸

```
Example

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

Key		Style	Value	HM650	099WH	HM8x0	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZ200
Res	oonse												
R	Requested	String	GetPTPosition	-	-	- -	- -	_	- ,	✓ -	- -	✓	√
R	Result	String	(Result of command processing.)	-	-	- -	- -	_	- ,	✓ -	- -	✓	√
)ata												
	Pan		0(Back left limit) - 17540(Front) - 35080(Back right limit)		_	1	- -	1	_ ,	✓ -	-	✓	√
	Tilt	Integer	0(Just above) - 9040(Just beside) - 12080(Diagonally downward)	_	_		- -	_	_ ,	✓ -		✓	√

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

K	ey	Style	/alue	9WH	9MH	E E	H Z	HM2	LS3C	PZ1(E .	HC5	FZ20
R	equest						П						T
	Command	String	JpegEncode	√ ·	✓ 、	1	. 🗸	✓	✓	✓	✓ 、	/ -	- -
	SessionID	String	Session ID in cookie.)	√ ·	✓ 、	1	. 🗸	✓	✓	✓	✓ 、	/ -	- -
	Params						П						T
	Operate	String	Start" / "Stop"	✓ ·	✓ 、	V V	/ V	✓	✓	✓	✓ 、	/ -	- -

```
Example

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

Ke	Э У	Style	Value	HM6	9МН	HM8	HM2		HIMIZI I S30	PZ10	НСЭ	HC5 ₃	PZ20
Re	esponse												
	Requested	String	JpegEncode	✓	✓	✓	✓ ✓	/ /	/ /	✓	✓	✓ -	-T-1
	Result	String	(Result of command processing.)	✓	✓	✓	✓ ✓	/ /	/ /	✓	✓	√ -	-

```
Example

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

Setting image resolution of acquiring JPEG data.

Request

Ke	y		Style	Value	HM650	HM660	HM8x0	HM200 HM25x		LS300	PZ100	HC900	HC5x0 PZ400	PZ200
Re	que	est												
	Со	ommand	String	SetJpegEncodeSize	-	-	-	- -	- -	-	✓	- [-	- [- [·	_
	Se	essionID	String	(Session ID in cookie.)	-	-	-	- -	- -	-	✓	- [-	- [- [·	-
	Pa	irams							Т	T				
		Size	String	"640x360" / "320x180"	-	_	_	- -	- -	-	✓	_ -	- - ·	-

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

Response

Э	Key	Style	Value	HM650	099WH	HM8x0	HM200	HM280	LS300	PZ100	HC900	PZ400	PZ200
	Response												
	Requested	String	SetJpegEncodeSize	-	-	-	- -	- [-	T-	✓	-T-	- [- [=
	Result	String	(Result of command processing.)	1	-	-	- -	- -	—	✓	- -	- [- [=

```
"Response" : {
"Requested": "SetJpegEncodeSize",
"Result" : "Success"
```

3.5.3. Acquire JPEG data

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

Access format http:// <ip address="">/cgi-bin/get_jpg.cgi?SessionID=<session cookie.="" id="" in=""></session></ip>	HM650
Request GET /cgi-bin/get_jpg.cgi?SessionID= <session cookie.="" id="" in=""> HTTP/1.1\r\n</session>	HM650 HM28
Response HTTP 1.1 200 OKIrIn	- HM860 - HM860 - HM200 - HM230 - HC500 - HC500 - HC500 - HC500
Content-type: image/jpeg\r\n Pragma: no-cache\r\n Cache-Control: no-cache\r\n Expires: Thu, 01 Jan 1970 00:00:00 GMT\r\n	
Content-Length: 32906\r\n Date: Wed, 07 Jan 2015 23:28:58 GMT\r\n Server: Camera\r\n \r\n	
Data of Jpeg file follows after this.	

3.6. How to use Interruptible Feedback Function

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

3.6.1. Get interruptible feedback settings

Get IFB function parameters.

Request

Key	Sty	/le	Value	HW6	HW6	HW8	HM2	HM2 HM2	LS3(PZ1(E S	PZ4	PZ2(
Request							iΠ						
Command	Str	ing	GetIFBSettings	-	✓	✓	- [-	-T-	- -	-	- -	- -	[-]
SessionID	Str	ing	(Session ID in cookie.)	-	✓	✓	- T-	- -	- -	-	- -	- -	[-]

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

Key	/		Style	Value	9МН	9МН	НМ8	HM2	HM2	HMZ	LS3U PZ10	Ю	HC5	PZ4(PZ2(
Res	spc	onse												
	Re	quested	String	GetIFBSettings	_	✓	✓	- 1	- [-	- [-	- -	 -	- -	-T-1
	Re	sult	String	(Result of command processing.)	_	✓	✓	– [- [-	- [-	- -	1-1	- [-	-7-7
	Da	ta												
		Function	String	Switch to enable IFB function. "Enable" / "Disable"	_	✓	✓	– [- [-	- [-	- -	1-1	- [-	-7-7
		Address	String	Address of IFB server. "xxx.xxx.xxx"	_	✓	✓	– [- [-	- [-	- -	1-1	- [-	-7-7
		Port	Integer	Port of IFB server. 1 - 65535	_	✓	✓	– [- [-	- [-	- -	1-1	- [-	-7-7
		Mountpoint	String	Mountpoint on IFB server. Max 62 characters.	_	✓	✓	-	- -	- [-	- -	-	-	- [-]

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	099WH	HM8x0	HM25x	HM280	LS300	PZ100	HC900	PZ400	PZ200
Req	uest												
C	Command	String	SetIFBSettings	-	✓	✓ -	- -	_	_	- 1-	- [-	T-1	-7
S	SessionID	String	(Session ID in cookie.)	-	✓	✓ -	- [-	_	-	_I =T-	- [-	T-1	-1
P	arams									П			
	Function	String	Switch to enable IFB function. "Enable" / "Disable"	-	✓	✓ -	- T	-	-	<u> </u>	- [-	1-1	= [
	Address	String	Address of IFB server. "xxx.xxx.xxx"	-	✓	✓ -	- T	-	-	- 1-	- [-	1-1	= [
	Port	Integer	Port of IFB server. 1 - 65535	-	✓	✓ -	- T	-	-	<u> </u>	- [-	1-1	= [
	Mountpoint	String	Mountpoint on IFB server. Max 62 characters.	-	✓	✓ -	-	-	-	- -	- [-	T- 1	= [

Example

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

Response

_	Key	у	Style	Value	9МН	9МН	HM8	HM2	HM2	LS3C	PZ1(HC9	HC5	P220
	Res	sponse												
		Requested	String	SetIFBSettings	-	✓	✓	- -	-1-	- [-	_	- ·	- [-	- [-]
		Result	String	(Result of command processing.)	_	✓	✓	— [-	-T-	- -	_	— [-	- [-	- [-

Example

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

3.6.3. Set interruptible feedback streaming control

This command is used to start/stop IFB streaming

ues

Key		Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	HC900	PZ400	PZ200
Requ	uest												П
C	Command	String	SetIFBCtrl	-	/	✓	- -	- [-	_	_	- -	- -	\Box
S	SessionID	String	(Session ID in cookie.)	_	/	✓		- -	_	_		- -	-
Р	arams												
	Streaming	String	Streaming Control	-	✓	✓	-1-	- -	-	1-1	_ -	7-	
			"Start": start streaming / "Stop": stop streaming										

Example

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

Response

· F	Key	Style	Value	HM650	HM660	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC5x0	PZ400	74400
Ī	Response												
	Requested	String	SetIFBCtrl	-	✓	✓	- -	-	-	- -	- [-[- T-	-7
	Result	String	(Result of command processing.)	-	✓	✓	- -	-	-	- -	- [-[- T-	-7

```
"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.

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

Ke	y		Style	Value	HM650	HM660	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC900	HC5x0 PZ400	PZ200
Re	que	est							T					
	Со	ommand	String	SetStudioTally	-	✓	✓	√ ✓	✓	-	✓	✓ _∨	/ \	$\left[-\right]$
	Se	essionID	String	(Session ID in cookie.)	-	✓	✓	√ ✓	✓	-	✓	√ v	/ /	I —
	Pa	irams												
		Indication	String	"Off"(not Indicate status on LCD) /	-	✓	✓	√ ✓	✓	-	✓	√ v	/ /	-
				"Program"(Indicate PGM on LCD) /										1
				"Preview"(Indicate PVW on LCD)										1

```
Example

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

Response

Key	Style	Value	HM650	HM660	HM8x0	HM200 HM25x	HM280	LS300	PZ100 HC900	HC5x0	PZ400	74400
Response												
Requested	String	SetStudioTally	-	\	✓ 、	/ /	✓	- \	/ /	✓ .	√ -	-7
Result	String	(Result of command processing.)	-	\	✓ 、	/ /	✓	- \	/ /	✓ .	√ -	-7

```
{
    "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
**
```

Request

Key	,	Style	Value	HM650	HM660	HM8x0	HM25x	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
Rec	quest				T								
	Command	String	SetTallyLampPriority	✓	√ I	✓ ✓	✓	✓	✓	✓ .	√ √	-	I - I
	SessionID	String	(Session ID in cookie.)	✓	√ ·	✓ ✓	✓	✓	✓	✓ .	√ √	-	-
	Params				T								
	Priority		"Camera"(Camera is given priority of control.) / "Web"(Web is given priority of control.)	✓ ✓	√ . √ .	√ √ √ √	· ✓		✓ ✓	✓ . ✓	√ √ √ √	_	_

^{*} If the Tally System setting is "Internal".

^{**} If the Tally System setting is "Studio".

```
Example

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

Response

ŀ	Key	Style	Value	Ĭ	Ĭ	Ĩ	Ĭ	Ĭ	¥ €	PZ1	Ë	HC5	PZ2
F	Response												
	Requested	String	SetTallyLampPriority	✓	\	✓	✓	✓	/ /	✓	✓ 、	/ -	- [-]
	Result	String	(Result of command processing.)	✓	\	✓	✓	✓	/ /	✓	✓ 、	/ -	- [-]

```
Example

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

System Chart



GY-HM660 GY-HM200

LED lighting of each model

GY-HM8x0 KY-PZ100 GY-HM25x GY-HC900 KY-PZ400 GY-HC5x0

TallyLampPriority	StudioTally	Settings	front	back		
	Program	External or Studio				
Web	Preview	External or Studio	\square	\bowtie		
	Off	External or Studio		\coprod	\square	
	Program	External or Studio		\models		
		other				
Camera	Preview	External or Studio	\square	\models		
		other		\square		
	Off	External or Studio				_
		other				

LCD indication of each model

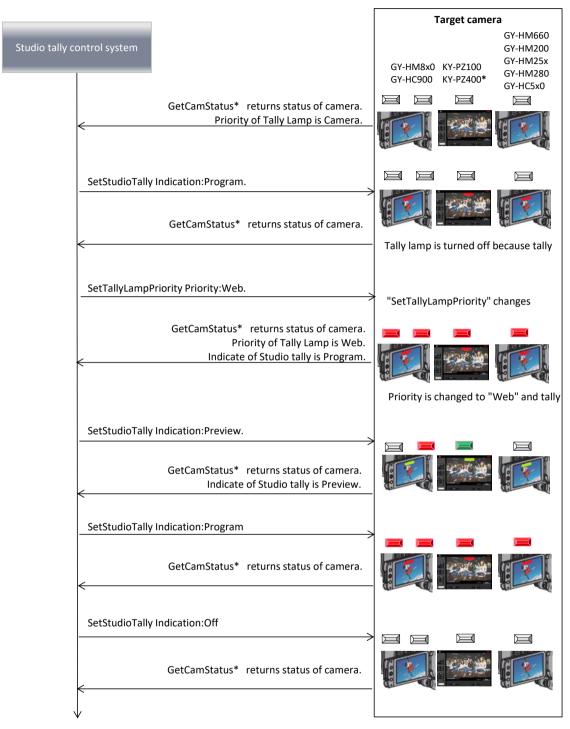
GY-HM660 GY-HM200

				GY-HM200
				GY-HM25x
		GY-HM8x0	KY-PZ100	GY-HM280
TallyLampPriority	StudioTally	GY-HC900		GY-HC5x0
	Program	PGM	PGM	PGM
Any time	Preview	PVW	PVW	PVW
	Off			

LCD indication image







- * "GetCamStatusMinimum" command can be used to acquire the status as well on KY-PZ100 and KY-PZ400.
- * PZ400 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. GetCurrentReturnOverlpServerID

Get current server ID for Return over IP function.

There are four server settings for Return over IP.

Request

K	еу	Style	Value	Ψ̈́	Ĭ	₩	ΗW	Η	E S	PZ1	<u> </u>	F 55	PZ4 PZ2
R	equest					П						П	
	Command	String	GetCurrentReturnOverlpServerID	-	_	-	- [- 1	- -	- -	✓	✓ .	- -
	SessionID	String	(Session ID in cookie.)	-	_	-	- [- 1	- -	- -	✓	✓ .	- -

```
Example

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

Response

Ke	ey	Style	Value	HW6	HM6	WHW8	HM2	I M	LS3(PZ1(5 E	PZ4(
Re	esponse			П			П	T	\prod			
	Requested	String	GetCurrentReturnOverlpServerID	-	-	-	- -	- -	I - I		/ /	- -
	Result	String	(Result of command processing.)	-	-	-	- -	- -	I - I		/ /	- -
	Data			П			П	T	\prod			
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	_	_	-	- -	- -	_		/ /	- -

```
Example

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

3.8.2. SetCurrentReturnOverlpServerID

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

Request

Ke	⊋y	Style	Value	HM650	HM660	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC900	PZ400	
Re	equest												1
	Command	String	SetCurrentReturnOverlpServerID	-	_	-	- -	-T-	_	-	√ √	- -	1
	SessionID	String	(Session ID in cookie.)	-	_	-	- -	- -	_	- ·	√ √	- -	1
	Params			П	П	П							1
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	-	-	-	- -	-T-	_	-	√ √	T- I-	1

Example { "Request" : { "Command" : "SetCurrentReturnOverlpServerID" , "SessionID" : "7425fbcb58ee4d15dd4c1f5ace4299a3" , "Params" : { "ID" : 0 } } }

Response

Э	Key	Style	Value	HM650	099WH	HM8x0	HM200	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZZUU
	Response											T	٦
	Requested	String	SetCurrentReturnOverlpServerID	-	-	- [- [-	- -	_	- \	/ 🗸	- -	-7
	Result	String	(Result of command processing.)	1	-	- [- -	- -	_	- \	/ /	- -	-1

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

3.8.3. GetReturnOverlpServerSettings

Get Return over IP settings for each server ID.

Request

Κe	⊋ y	Style	Value	HM650	099WH	HM8x0	HM200	HM280	LS300	PZ100	HC900	PZ400	PZ200
Re	equest						T						
	Command	String	GetReturnOverlpServerSettings	_	_	- 1	-T-	- -	-	-	√ √	_	=
	SessionID	String	(Session ID in cookie.)	-	_	-	_ -	- -	_	-	✓ ✓	_	_
	Params						T						
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	-	-	-	- -	- -	_	-	√ √	_	=

```
Example

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

Response

/		Style	Value	9МН	НМ6	HM8	HM2	HM2	HMZ	LS3(PZ1)	ЕЭН	HC5	PZ4(
sponse													
Request	ted	String	GetReturnOverlpServerSettings	-	-		-T	$\exists I$	= [-	- [-	√	✓ .	=
Result		String	(Result of command processing.)	-	-	Г	- 1	=		- -	✓	✓ .	_
Data						П							
Alias	3	String	(Another name of server)	-	-	Г	- 1	=		- -	✓	✓ .	=
Type	9	String	"RTSP/RTP" / "Icecast" / "SRT"	-	-	-	— [-1	=1-	- -	√	✓ .	_
RTS	P/RTP		(Selected by Type)										
Р	rotocol	String	"UDP"/"TCP"	_	_		- 1	=		- 1-	√	√ ·	Ξ
S	SrcAddress	String	(IP address)	_	-	F	_	寸	_ -	- -	V	✓ .	Ξ
S	SrcPort	Integer	(Port number)	_	_		-1	_		- T-	_	1	Ξ
	StreamId	String	(Stream ID)	_	_		- 1	_	= 1-	_ _	V	1	=
	Jsername	String	(User name)	_	_	▭	1-1	寸	_	= =	1	1	Ξ
	Password		(Password for RTSP/RTP)	_	-		_	寸	_	- -	1	1	=
_	Resolution		0:1280x720	_	_	Ħ	1_1	=		=	1/	1	=
	rameRate		1:60p, 2:30p, 4:50p, 5:25p	_	_	ᆫ	1_1	寸		_ _	1/	1	Ξ
Zixi	Tamortato	3	(Selected by Type)			۳	H	十	-		Ť	Ě	-
	SrcAddress	string	(IP address)	Ι_	_	₶		コ		_†_	./	./	Ξ
	SrcPort		(Port number)	Ι_	_	₶		コ		_†_	/	1	Ξ
	StreamId	string	(Stream ID for ZIXI)	Ι_	_	₶		コ		_†_	/	1	Ξ
	Password	Ů	(Password for ZIXI)	Ι_	_	₶		コ		_†_	/	1	Ξ
_	lame		(Name for ZIXI)	_	<u> </u>	\vdash	1_1	寸		_	./	1	_
I —	atency		0:Off, 1:Low, 2: Medium	<u> </u>	_	世		寸		_†_	./	./	=
	Resolution		0:1280x720	-	_	는		\exists		===		<u>.</u>	=
_	rameRate		1:60p, 2:30p, 4:50p, 5:25p	E	Ε	H	H	\exists	=+:	==	\ <u>'</u>	7	Ξ
Iceca		integer	(Selected by Type)		F	F	H	\dashv	-+		'	H	-
	asi BrcAddress	String	(IP address)		 	\vdash	H	_	_	_	+	7	_
	BrcPort		(Port number)	E	Ε	H	H	\exists	=+:	==	\ <u>'</u>	7	Ξ
	Mountpoint		(Mountpoint)			H	H	극	- +			7	_
SRT		oung	(Selected by Type)	₽	₽	무	\vdash	극	7	=		Ť	=
	BrcAddress	string	(IP address)	Η-	 		H	ᆿ	=+	===	/	./	=
	ort	Ū	(Port number)	_	_	ㄷ		寸	=	= =	1	Ž	=
	ConnectionMode		0: Caller 1: Listener, 2: Rendezvous	_	-	1	– 1	=	= 1-	- -	1	√ ·	=
	atency	integer	20 - 8000	-	-	-	- 1	=	-1-	- -	√	√ ·	Ξ
	ncryption	integer	0: OFF, 1: ON	_	_	\sqsubseteq	_	\equiv	= [-	- -	✓	✓	Ξ
	assphrase	string	(Passphrase for SRT)	<u> </u>	_	巨	曰	彐	ΞF	- [-	✓	√ .	Ξ
	Resolution		0:1280x720	<u> -</u>	-	느	니	듸	井-	_ _	✓	✓ .	_
F	rameRate	integer	1:60p, 2:30p, 4:50p, 5:25p	<u> -</u>	<u> -</u>	<u> -</u>	ഥ	_		- -	√	✓ .	_

650 8x0 8x0 220 25x 25x 280 900 5x0

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

3.8.3.1. AvailableTypeOfReturnOverIP

Get Available type.

Request

K	эу	Style	Value	HM650	HM660	HM8x0	HM200 HM25x	HM280	LS300	PZ100	HC900	PZ400 PZ200	
R	equest												1
	Command	String	AvailableTypeOfReturnOverIP	1	-	-	- -	-	—	- ·	/ /	- -	1
	SessionID	String	(Session ID in cookie.)	1	-	-	- -	-	—	- ·	/ /	- -	1

```
Example

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

Response

Example

Key			Style	Value	9МН	9WH	HM8	HM2	HM2	LS3C	PZ10 HC9	HC53	PZ40 PZ20
Resp	ons	se					П	Т					
R	equ	ested	String	AvailableTypeOfReturnOverIP	-	[-]	- T-	- -	-	- -	- 🗸	✓ .	- [-
R	esu	lt	String	(Result of command processing.)	-	-	- -	- -	-	- -	- 🗸	✓ .	- [-
D	ata						П	Т					
	А١	vailableType			-	[-]	- -	·T=	-	- -	- 🗸	✓ .	
		RTSP/RTP	Integer	0 : unselectable , 1 : selectable	-	-	- -	- -	-	- -	- 🗸	✓ .	- [-
		Icecast	Integer	0 : unselectable , 1 : selectable	-	[-]	- -	- -	-	- -	- 🗸	✓ .	- [-
		Zixi	Integer	0 : unselectable , 1 : selectable	-	[-]	- -	·T=	-	- -	- 🗸	✓ .	- [-
		SRT	Integer	0 : unselectable , 1 : selectable	-	-	- -	- -	-	_ -	- 🗸	✓ .	- [-]

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

Get available frame rate.

Request

Key	Style	Value	HM650	099WH	HM8x0	HM200	HMZ5X HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
Request												
Command	String	AvailableFrameRateOfReturnOverIP	_	_	-	- -	- -	- [-	_	√ √	-	_
SessionID	String	(Session ID in cookie.)	_	_	-	- -	- -	- [-	-	✓ ✓	-	_
Params						П					T	П
RecordingFrameRate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p"	T-	-	-	- -	- -	- [-	_	✓ ✓	-	_

```
Example

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

Response

Key		Style	Value	ЭШН	HM6	HM8	HM2	HM2	LS30	PZ10 HC90	HC5)	PZ40 PZ20
Resp	onse											
Re	equested	String	AvailableFrameRateOfReturnOverIP	-		- -	- -	-		- 🗸	✓ .	- -
Re	esult	String	(Result of command processing.)	-		- -	- -	-		- 🗸	✓ .	- -
Da	ata					T			П			
	RecordingFrameRate	String	"60p" / "50p" / "60i" / "50i" / "30p" / "25p"	-	- [-	-T-	-T-	-	- -	- 🗸	✓ .	- -
	AvailableFrameRate			-		- -	-T-	-	- -	- 🗸	✓ .	- -
	"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	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	HC900	HC5x0 PZ400	PZ200
Reque	est										ı		
Co	mmand	String	SetReturnOverlpServerSettingsRTSP	-	-	- -	- [-	- -	- -	-	√ \	/ -	—
Se	ssionID	String	(Session ID in cookie.)	-	-	- -	- [-	- -	- -	-	√ \	/ -	
Pa	rams												
	ID	Integer	0:server1, 1: server2, 2: server3, 3: server4	_	-	- -	- [-	- [-	- -	-	√	/ -	П
	Alias	String	(Another name of server)	_	-	- -	- [-	- [-	- -	-	√	/ -	П
	Protocol	String	"UDP"/"TCP"	_	-	- -	- [-	- [-	- -	-	√	/ -	П
	SrcAddress	String	(IP address)	_	-	- -	- [-	- [-	- -	-	√	/ -	T-1
	SrcPort	Integer	(Port number)	-	-	- -	- -	- [-	T	-	√ v	/ -	1-1
	StreamId	String	(Stream ID)	_	-	- -	- [-	- [-	- -	-	√	/ -	T-1
	Username		(User name)	-	-	- -	- -	- [-	<u> </u>	-	√ v	/ -	T-1
	Password		(Password for RTSP/RTP)	-	-	- -	- -	- [-	<u> </u>	-	√ v	/ -	T-1
	FrameRate	Integer	1:60p, 2:30p, 4:50p, 5:25p	_	-	- -	- [-	- [-	- -	-	√	/ -	

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

Response

K	Э У	Style	Value	9WH	HW6	HW8	H M	HM2	LS30	PZ1(E 19	PZ4(PZ2(
R	esponse											T	П
	Requested	String	SetReturnOverlpServerSettingsRTSP	_	_	- 1	- [-	- [-	_	-	/ /	-	-
	Result	String	(Result of command processing.)	_	_	- 1	- [-	- [-	_	-	/ /	-	-

```
{
    "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	099WH	HM8x0	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZ200
Requ	est					l				i i			
Co	ommand	String	SetReturnOverlpServerSettingsZIXI	-	-	- -	- -	_	-	- 4	/ /	1-1	-7
Se	essionID	String	(Session ID in cookie.)	-	-	- -	- -	_	-	- 4	/ /	1-1	-
Pa	arams				П				П				
	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	-	-	- -	- -	_	_	- 🗸	/ /	- -	=

```
"Request": {
    "Command": "SetReturnOverlpServerSettingsZIXI",
    "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3",
    "Params": {
        "ID": 1,
        "Alias": "Server1",
        "SrcAddress": "192.168.0.1",
        "SrcPort": 2088,
        "StreamId": "HM650-1234",
        "Password": "abcde",
        "Name: "JvcKenwood",
        "Latency": 0
        }
    }
}
```

Response

K	эу	Style	Value	HM650	099MH	HM8x0	HM200	HM25x	HM280	PZ100	HC900	PZ400	PZ200
R	esponse												
	Requested	String	SetReturnOverlpServerSettingsZIXI	-	_	_	— [-	- [-	- [-	- -	√ √	′ -	_
	Result	String	(Result of command processing.)	-	_	_	— [-	- [-	- [-	- -	√ √	′ -	_

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

3.8.6. SetReturnOverlpServerSettingsIcecast

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

Request

<u>Key</u> s	Style	Value	HM650	099WH	HM8x0	HM25x HM25x	HM280	LS300	PZ100	HC900 HC5x0	PZ400 PZ200
Request											
Command	String	SetReturnOverlpServerSettingsIcecast	-	-	- T-	- -	_	-	- \	/ /	- -
SessionID	String	(Session ID in cookie.)	-	- [- -	- -	-	-	- \	/ /	- -
Params											
ID Ir	nteger	0:server1, 1: server2, 2: server3, 3: server4	-	-	- [-	- -	_	-	- \	/	- -
Alias	String	(Another name of server)	-	-	- [-	- -	_	-	- \	/	- -
SrcAddress	String	(IP address)	-	-	- [-	- -	_	-	- \	/	- -
SrcPort Ir	nteger	(Port number)	- 1	- [- -	- -	-	-	- \	/ /	
Mountpoint S	String	(Mountpoint)	-	-	- -	- -	_	_	- \	/	- -

Example

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

Response

K	Э у	Style	Value	9WH	HM6	HM8	HM2 HM2	HM2	LS3(PZ1(HÇ5	PZ4(PZ2
R	esponse							\Box			Т		
	Requested	String	SetReturnOverlpServerSettingsIcecast	-	[-]	- [- -	-	-	- ,	/ /	1-1	\exists
	Result	String	(Result of command processing.)	-	-	-	- -	-	_	- ,	/ /	_	-7

Example

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

3.8.7. SetReturnOverlpCtrl

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

Request

Key		Style	Value	HM650	HM660	HM8x0	HM25x	HM280	LS300	PZ100	HC5x0	PZ400	PZZUU
Requ	iest												٦
C	ommand	String	SetReturnOverlpCtrl	-	_ -	- T-	- [-	_	_	- 🗸	/		-7
S	essionID	String	(Session ID in cookie.)	-		_ -	- -	_	-	- 🗸	· 🗸		-7
Pa	arams												٦
	Operate	String	Streaming Control	-		- [-	- -	_	-	- 🗸	√	- -	-1
			"Start": start Return over IP / "Stop": stop Return over IP										

Example

Response

K	еу	Style	Value	Η	Ψ̈́	₩	HW.	Ĭ.	N K	PZ1	<u> </u>	i i	P24	774
R	esponse												T	٦
	Requested	String	SetReturnOverlpCtrl SetReturnOverlpCtrl	-	_	-	- -	-T-	- -	- -	✓ _∨	/ -	- [-	-1
	Result	String	(Result of command processing.)	-	_	_	- -	-1-	- [-	- -	✓ ∨	/ -	- [-	-1

```
{
    "Response" : {
        "Requested" : "SetReturnOverlpCtrl" ,
        "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	HM650	099WH	HM8x0	HM25x	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
Requ	iest												
Ċ	ommand	String	SetReturnOverlpServerSettingsSRT	_	_	- -	- -	-	_		/ /	_	_
S	essionID	String	(Session ID in cookie.)	-	-	- -	- [-	-	_		/ /	-	=
P	arams												
	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	-	-	- -	·T-	-	-		/ /	-	=
	Latency	Integer	20 - 8000	-	-	- -	- -	-	-		/ /	-	=
	Encryption	Integer	0: OFF, 1: ON	_	ı	- -	- -		_		/ \	-	_
	Passphrase	String	(Passphrase for SRT)	_	_	- -	- -		_		/ \	-	_
	FrameRate	Integer	1:60p, 2:30p, 4:50p, 5:25p	_	-	- -	- -	-	-		/ 🗸	-	-

Example { "Request": { "Command": "SetReturnOverlpServerSettingsSRT", "SessionID": "7425fbcb58ee4d15dd4c1f5ace4299a3", "Params": { "ID": 1, "Alias": "Server1", "SrcAddress": "192.168.0.1", "Port": 2088, "ConnectionMode": 0, "Latency": 20, "Encryption": 0, "Passphrase": "abcdefghijklmn" "FrameRate": 1, } } }

Response

· K	Key	Style	Value	HM650	HM660	HM8x0	HM200	HM280	LS300	PZ100	HC900 HC5x0	PZ400	PZ200
R	Response											T	П
	Requested	String	SetReturnOverlpServerSettingsSRT	-	-	- T	- [-	- [-	- [-	- ,	✓ ✓	-	-
	Result	String	(Result of command processing.)	-	-	- T	- [-	- [-	- [-	- ,	✓ ✓	-	-

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