

HD/4K Integrated Camera Interface Specifications

AW-UE150A

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1.Introduction

This manual describes the external interface specifications which are applicable when the AW-UE150A is operated.

2. Configuration outline

This manual has the following general configuration.

① Overview of the external interface

It is possible to control the pan, tilt and white balance adjustments.

It is also possible to acquire the gain and other camera information by initiating queries.

The various functions are employed for the operations with the camera using HTTP which is the host protocol of TCP.

For further details, refer to chapter 3 and chapter 4.

② Camera information update notification

The local terminal is notified of the values of the gain and other settings which have been changed at another terminal or other terminals so that it can acquire the camera information.

This feature is useful when one camera is controlled by a multiple number of terminals, and when the setting for enabling update notifications to be received has been established, the information which has been changed by other terminals can be acquired.

For further details, refer to chapter 5.

③ Camera information batch acquisition

The camera information can be acquired in batch form. Since there is no need to query each and every camera information item when this feature is used, the feature is useful when all the camera information is required such as at startup.

For further details, refer to chapter 6.

④ Error return

An error whether ER1, ER2 or ER3 is returned when an error has been generated by a command in ① above or when the AWB result contains an error.

For further details, refer to chapter 7.

⑤ Menu list and command correspondence table

This table which summarizes AW-UE150A menu list and commands related to each menu item.

For further details, refer to chapter 8.

⑥ Control and request command

Describes the specifications of commands used in AW-UE150A.

For further details, refer to chapter 9.

3.Command type

There are two types of external interface command: Pan/Tilt control commands and camera control command.

3-1.Pan/Tilt control command

This interface controls the pan tilt head.

Starts with # (0x23), and ends with [CR](0x0d)

example) Pan stop command

P 5 0 [CR]

0x23 0x50 0x35 0x30 0x0D

※[CR] is not required for IP communication

Commands which command type is "ptz"(in chapter 9) are for Pan/Tilt control commands

3-2.Camera control command

This interface is for the camera lens control and image/color adjustments.

Starts with [STX] (0x02), and ends with [ETX] (0x03)

":" letter is required before [Data] for camera Control commands.

example) Auto Focus setting

[STX] O A F : 1 [ETX]

0x02 0x4F 0x41 0x46 0x3A 0x31 0x03

※[STX] and [ETX] are not required for IP communication

4. Communication method

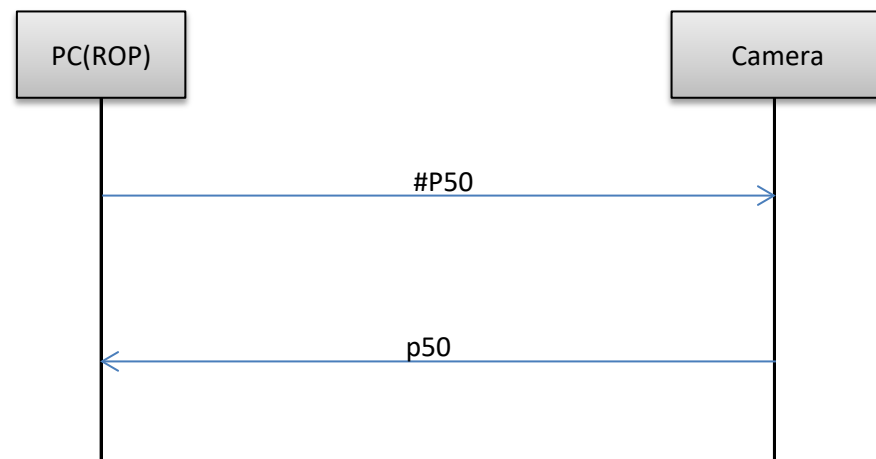
The camera can be controlled by serial communication and IP communication respectively

4-1. Serial communication

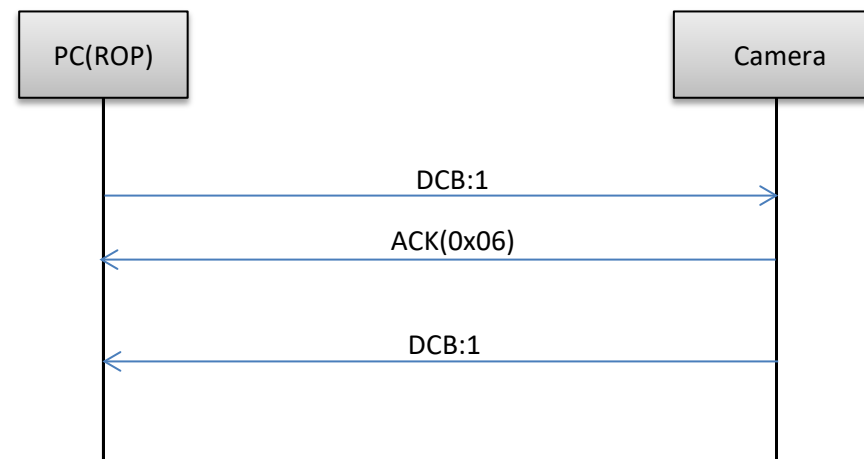
The camera communicates with RS422. The communication specifications are as follows

Method	Half Duplex
Communication Speed	9600bps
Data bit	8bit
Stop bit	1bit
Parity	None
Flow control	None

▼ Sequence of serial communication In case of Pan/Tilt Control command



In case of Camera Control command



【Restrictions】

1. When using the pan-tilt head control commands, send the commands with a gap of 40 ms between each command. Given below is the sequence.
2. Some settings and conditions may restrict the effects of other settings (⊗ including those with exclusive control conditions).
See more detail in Chapter 8 for the exclusive control conditions
3. Send the commands which change the settings only at the point in time when the changes are required. (Do not send them at regular intervals.)

4-2.IP communication

In case of Pan/Tilt Control command

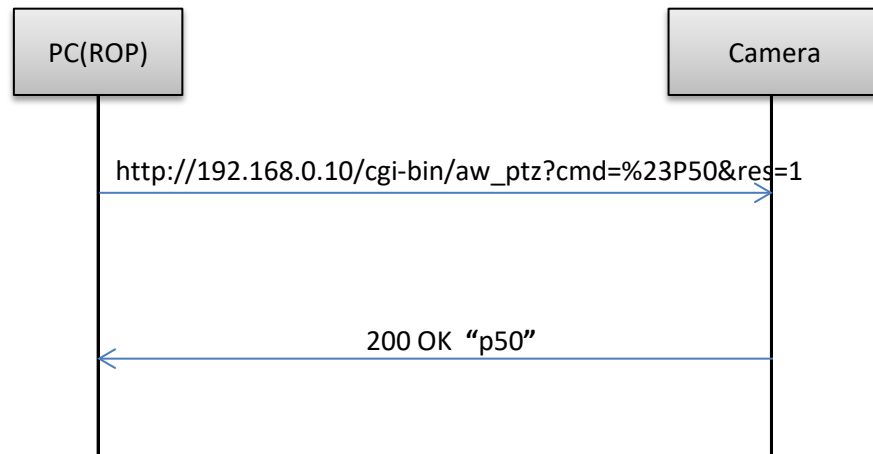
▼ Send format

http://[IP Address]/cgi-bin/aw_ptz?cmd=[Command]&res=[Type]
 ※IP Address...IP address of camera at connection destination
 ※Command.....Details given in “Command” column in Chapter 9
 ※Type.....Fixed at “1”

▼ Receive format

200 OK “Command”
 ※Command...Response value of each command;
 set in the HTTP message body
 See more detail in Chapter 7 for the error communication sequence
 for the transmitted command

▼ Sequence



※Depending on the browser or middleware used, “#” may have to be converted to “%23” by ASCII conversion.

In case of Camera Control command

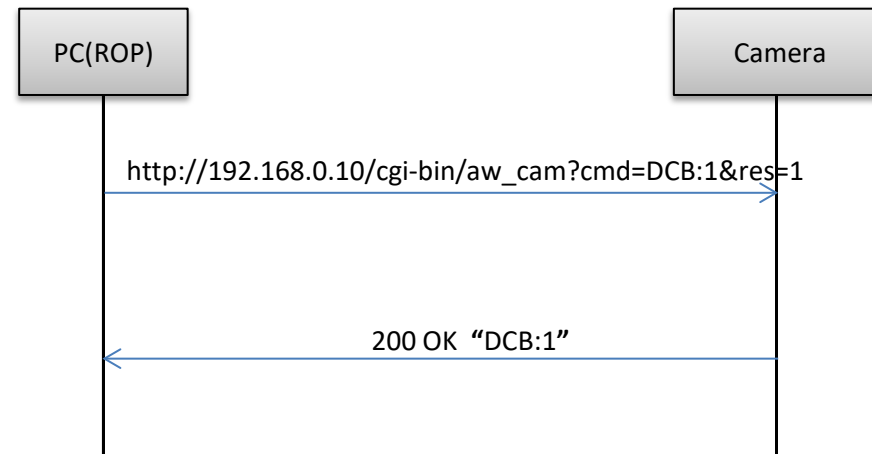
▼ Send format

http://[IP Address]/cgi-bin/aw_cam?cmd=[Command]&res=[Type]
 ※IP Address...IP address of camera at connection destination
 ※Command.....Details given in “Command” column in Chapter 9
 ※Type.....Fixed at “1”

▼ Receive format

200 OK “Command”
 ※Command...Response value of each command;
 set in the HTTP message body
 See more detail in Chapter 7 for the error communication sequence
 for the transmitted command

▼ Sequence



【Restrictions】

1. When using the pan-tilt head control commands, send the commands with a gap of 40 ms between each command. Given below is the sequence.
2. Keep-Alive cannot be set with HTTP connections.
 Connect and disconnect are performed each time a command is sent or received.
3. Some settings and conditions may restrict the effects of other settings (※ including those with exclusive control conditions).
 See more detail in Chapter 8 for the exclusive control conditions
4. Send the commands which change the settings only at the point in time when the changes are required. (Do not send them at regular intervals.)

5.Update notification

The following restrictions apply to camera operations that are performed using HTTP communication and that have been described in the previous chapters:

- A) Even when a camera setting is changed by one terminal, the other terminals will not know that the setting has been changed unless they send the query command to the camera.
- B) In the case of a preset playback, AWB/ABB execution or other control commands that take time to be processed, it is necessary to wait until the processing is completed for the response.

By sending information autonomously from the camera to the terminals, it is possible to do the following:

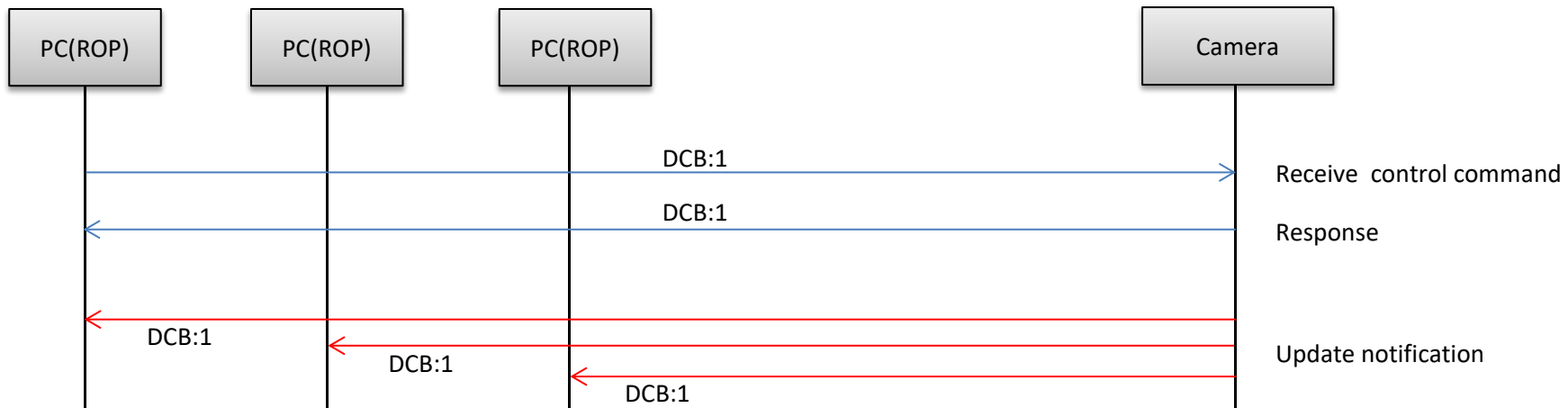
- A) When a camera setting is changed by one terminal, the other terminals are notified of the setting change immediately.
- B) With a control command that takes time to be processed, the HTTP response is returned as soon as the command has been received, and separate notification of the processing result is given as soon as the processing is completed.

These functions are referred to as the camera information update notification function.

This chapter uses the term “update notification” to refer to this function

5-1.Update notification sequence

When the settings of the camera have been changed from the local terminal (PC1), the changes are also posted by an update notification separately from the HTTP response to the command.



Some commands are not to be indicated as update notifications. See Chapter:9 for more detail

5-2.Data format for update notifications

▼Serial

In the case of Pan/Tilt control command, ends with [CR](0x0d)

In the case of Camera control command, starts with [STX] (0x02), and ends with [ETX] (0x03)

▼IP

The update notification is given to the TCP port on the terminal whose number was specified using the update notification start command by TCP protocol communication.

A breakdown of the data received is given below.

【Receive data】

Reserve (22Byte)	Size (2Byte)	Reserve (4Byte)	Update notification information (Variable length: Max. 504 bytes)	Reserve (24Byte)
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The updated information is set in “Update notification information” of the receive data format.

The data received from the camera has a variable length.

The size of the update notification information is the value obtained by subtracting 8 bytes from the “Size” area setting.

• “Update notification information” data length = “Size” – 8 bytes

【Update notification information format】

[CR][LF][Command response format][CR][LF]

※ [CR]:0x0d、[LF]:0x0a

ex1)Power: On

[CR][LF]p1[CR][LF]

ex2)Color bar: On

[CR][LF]DCB:1[CR][LF]

5-3.Procedure of start/end of the update notifications reception

To receive an update notification via IP, you must perform the update notification reception start process in advance.

At a time like this, the number of the TCP port on the terminal for receiving the update notification (having the update notification sent) is specified.

① Update notification receive start step

example) When reception is to be started with “192.168.0.10” used as the IP address of the camera

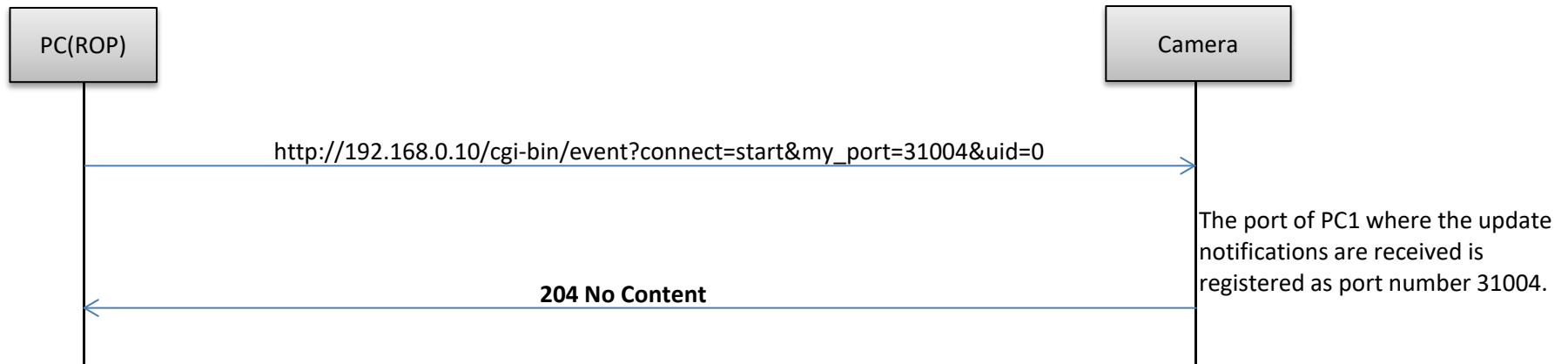
`http://192.168.0.10/cgi-bin/event?connect=start&my_port=31004&uid=0`

※ my_port … Number of the TCP port on the terminal (any port)

【Update notification receive start sequence】

The update notification receive start command is sent from the terminal where the update notifications are to be received.

“204 No Content” is returned from the camera which has received the command.



【Caution】

Proceed with the update notification receive start step when communication has been cut off because the LAN cable has been disconnected, for example.

② Update notification receive end step

To close the application of the client, the update notification receive end step must be taken without fail.

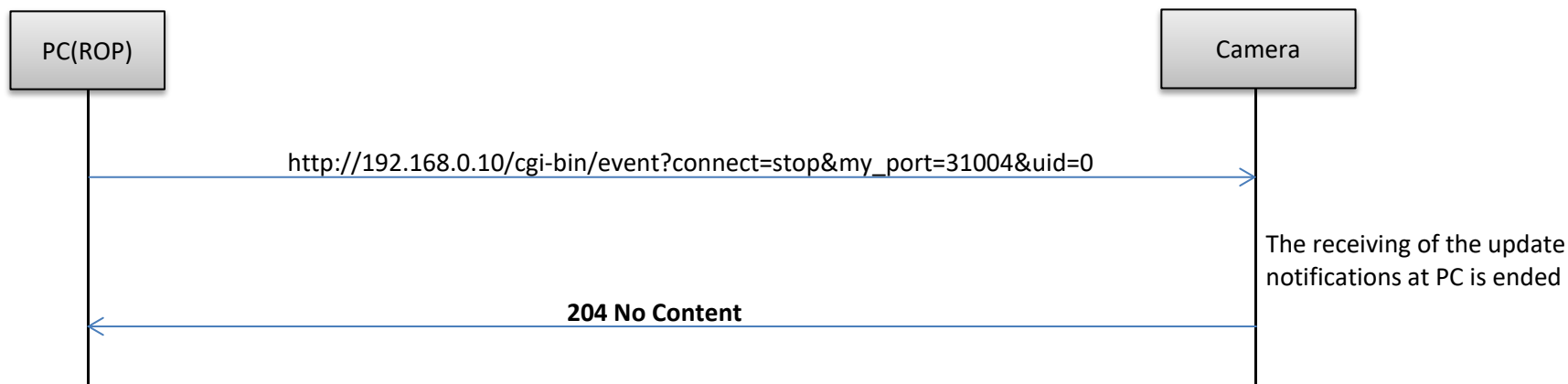
example) When reception is to be ended with “192.168.0.10” used as the IP address of the camera

`http://192.168.0.10/cgi-bin/event?connect=stop&my_port=31004&uid=0`

※ my_port … Number of the TCP port on the terminal

【Update notification receive end sequence】

The update notification receive end command is sent from the terminal which has received the update notifications.
“204 No Content” is returned from the camera which received the command.



③ Registered number of update notifications

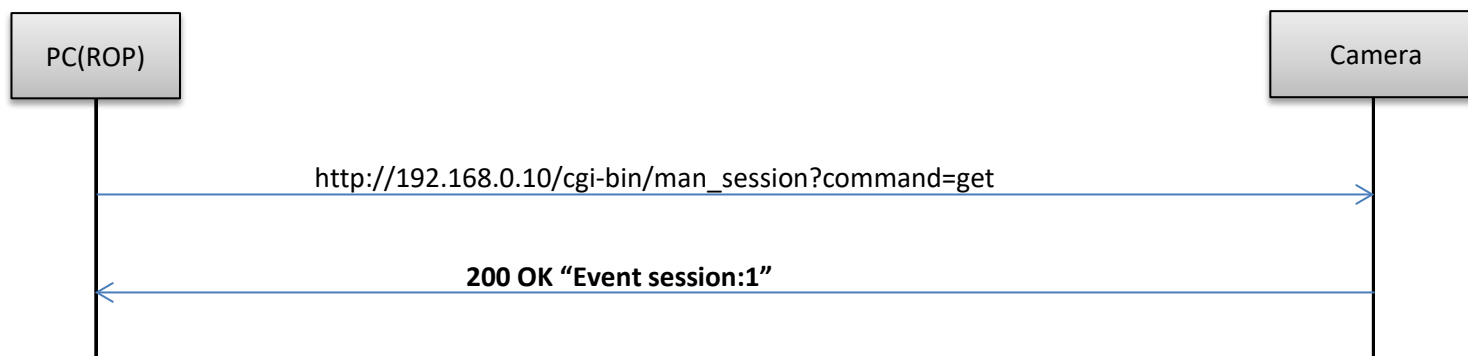
You can query the number of external devices (RP remote controller etc.) connected to the camera with the following command.
The number of connected device increases with the procedure to start receiving update notifications and decreases the procedure to start receiving update notifications. The number of connected device also decreases when it can not communicate with the device.

Number of terminals which can receive update notifications at the same time: 5

When the remote camera controller is connected, it is counted as one unit.

example) When the IP address of the camera is "192.168.0.10" and you want to request registered number.

http://192.168.0.10/cgi-bin/man_session?command=get



6.Special sequences

Update notifications are sometimes sent at times other than when the settings or statuses of the camera have been changed. Some cases are presented below.

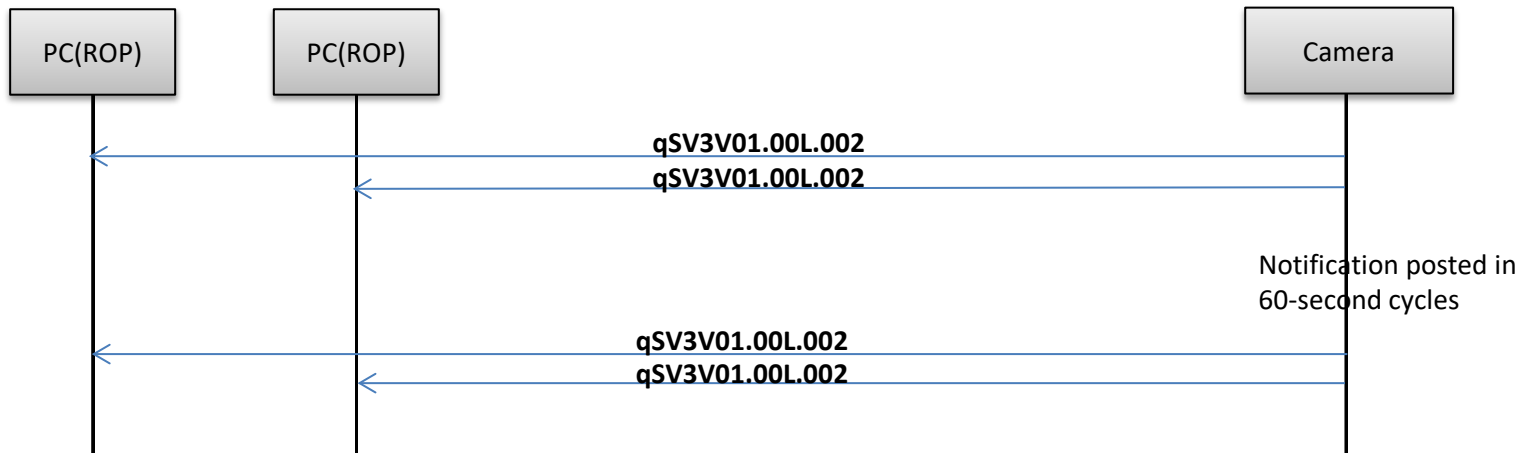
It is assumed that the update notification start command has been sent to all the terminals in the sequence and that the terminals can receive the update notifications from the camera.

6-1.Version information notification

The version information is posted in 60-second cycles.
See QSV in Chapter 9 for notification content

【Sequence when the version information is received】

The camera sends the version information in 60-second cycles, and this information is received by terminals PC1 and PC2.



6-2.Error information

In cases where the camera has detected error information, the error information is posted in 30-second cycles.

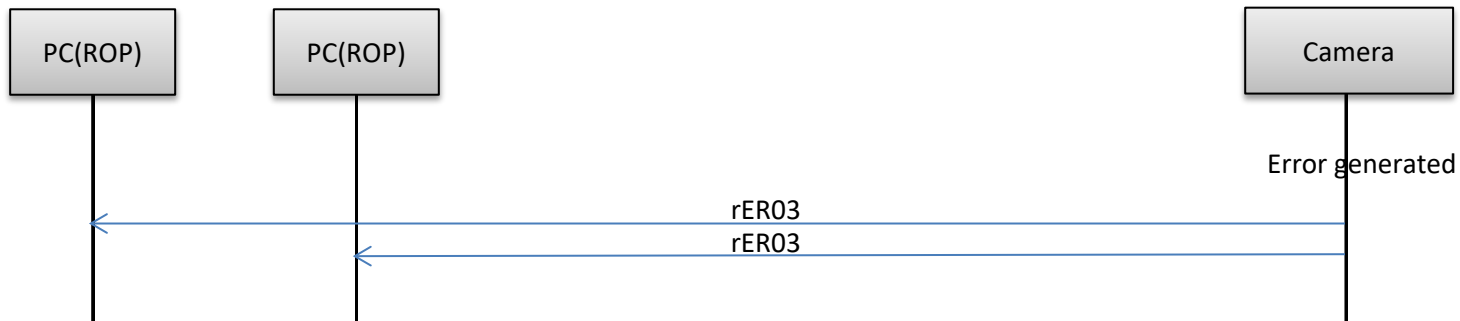
When operation has been restored from an error condition, [Error Code 00:Normal] is posted only once.

If the error has not been detected, the error information is not posted.

See #RER in Chapter 9 for notification content

【Error information receive sequence】

When the camera detects an error, it sends the error information to the terminals, and terminals PC1 and PC2 receive this information.



6-3. Lens Information

Notification is sent in a 300ms cycle when “On: Information is posted” has been set for the lens information notification On/Off control command

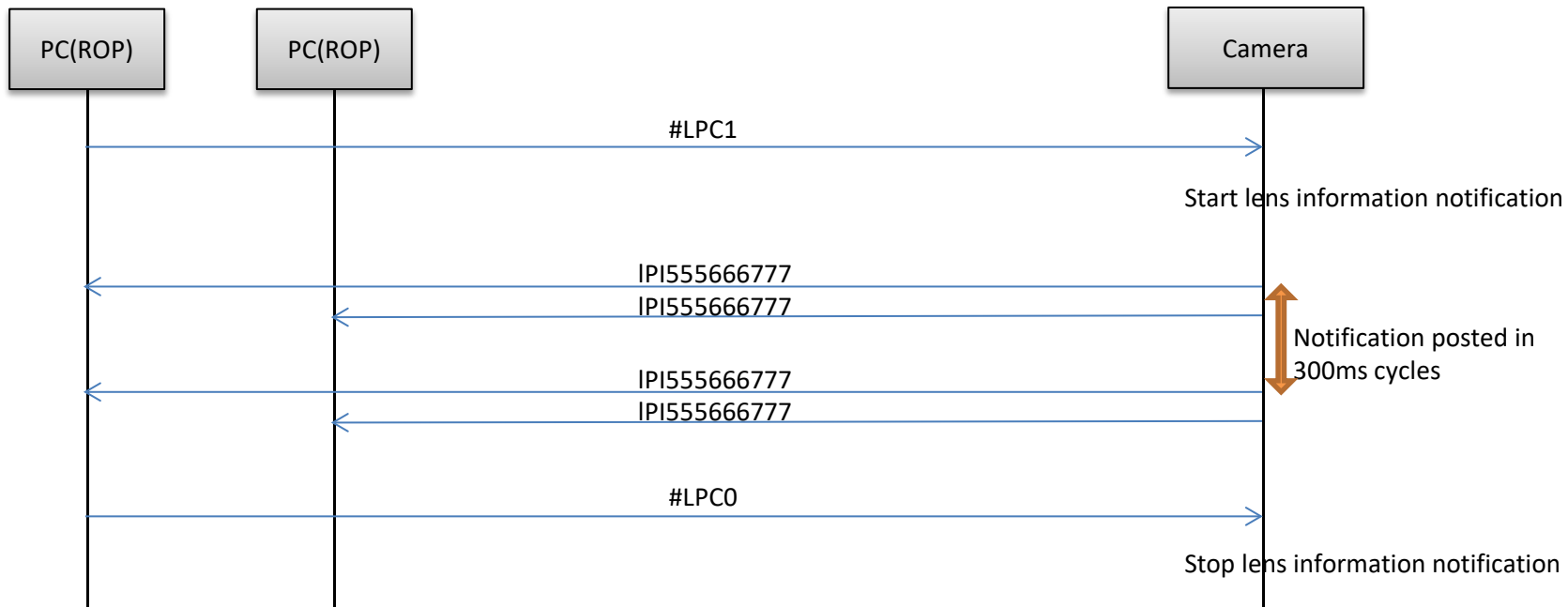
Notification	Lens information
LPI[ZZZ][FFF][III]	ZZZ Zoom position FFF Focus position III Iris position (Expressed in 3 digits each)

【Sequence when lens information is changed】

Start lens information notification when the camera receive lens information On command (#LPC1).

When the camera detects changes in the lens information, the changed lens information is sent to the terminals, and terminals PC1 and PC2 receive this information.

Stop lens information notification when the camera receive lens information Off command (#LPC0).



6-4.Preset playback

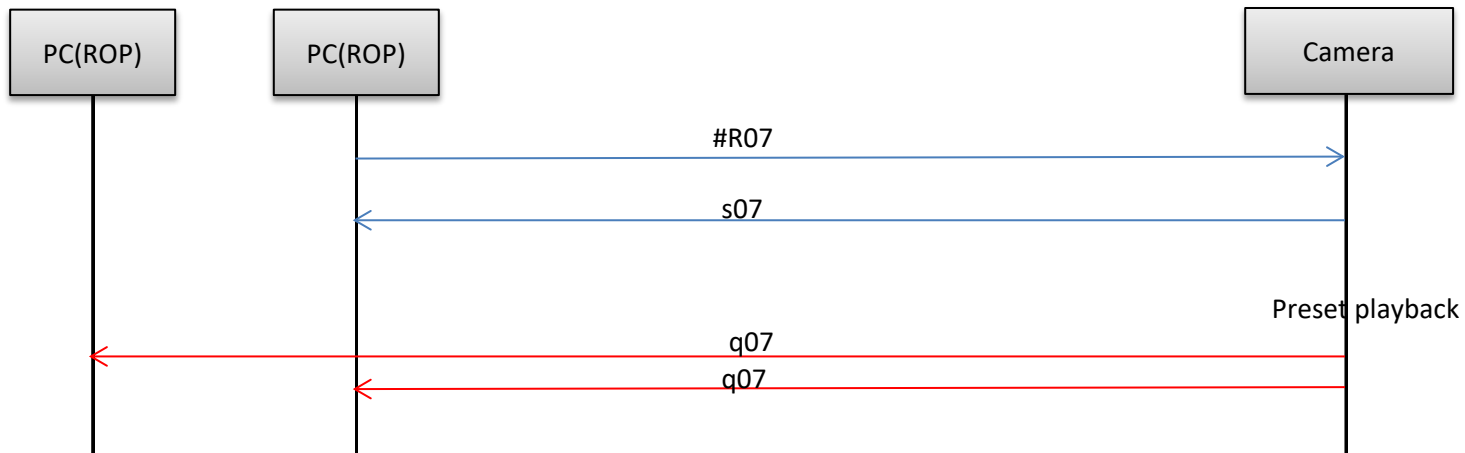
This command sends the preset playback completion notification as an update notification when preset playback in the camera has been completed

Notification	Remarks
q[Data]	Number of the preset which was played back - 1

【Preset playback sequence】

This is the sequence in which preset number 08 is played back.

As soon as the preset playback command is received, "s07" is returned as the HTTP response, and as soon as the playback is completed after this, "q07" is posted separately as the update notification.



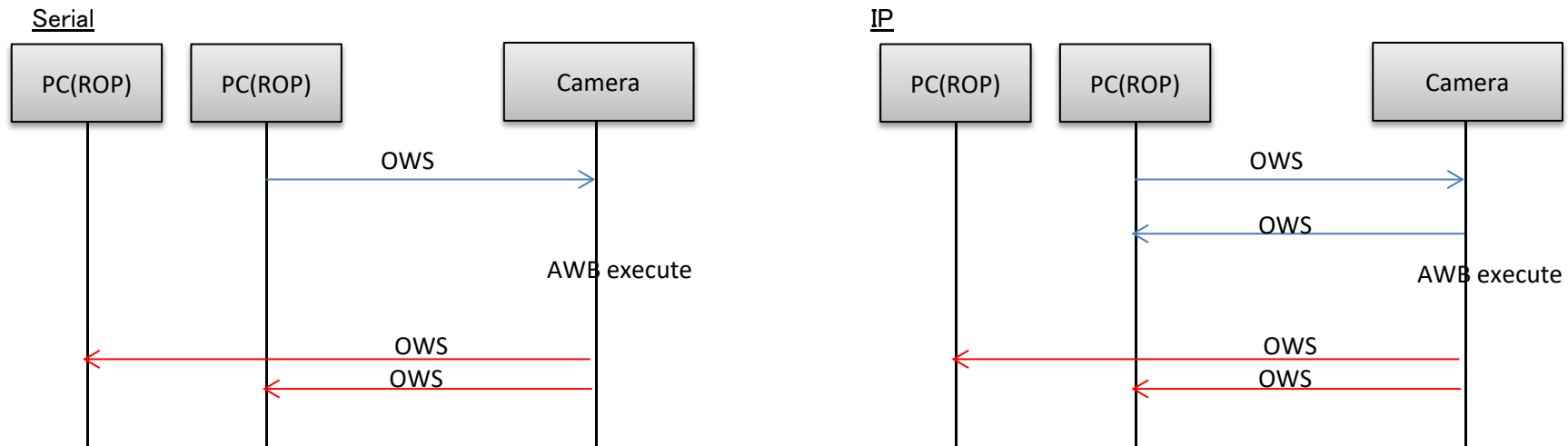
6-5.AWB/ABB execution

This command sends the execution results as an update notification when execution of AWB/ABB has been completed by the camera.

Notification	Remarks
OWS	AWB execution successful
OAS	ABB execution successful

【AWB execution sequence】

As soon as the AWB/ABB execution command is received, return response, and as soon as the AWB execution is completed, “OWS” is posted separately as the update notification.



6-6. Camera information batch acquisition

All the information of the camera can be acquired together as a batch.

【Command format】

[send]

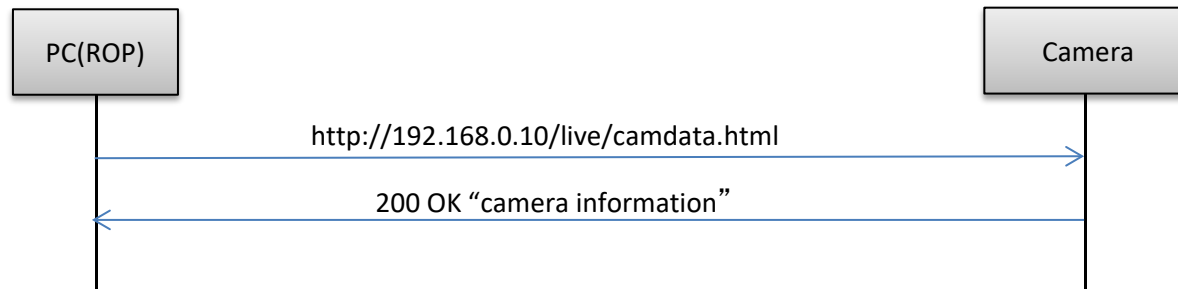
http://[IP Address]/live/camdata.html

[receive]

200 OK "Camera information"

See chapter 9 for detail of camera information

【Sequence】



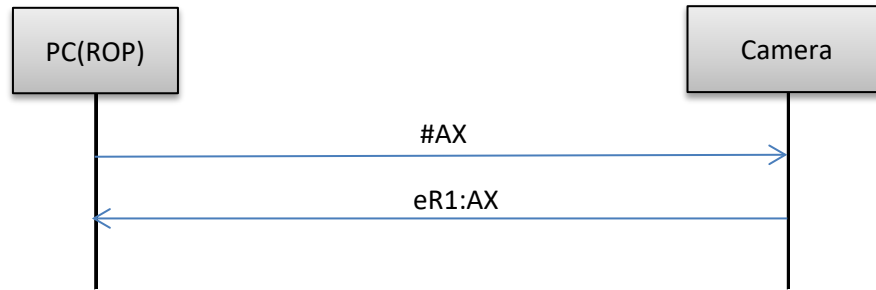
7. Error return

The three errors ER1, ER2 and ER3 below are returned in response to control or query commands by the camera.

In the case of Pan/Tilt control command

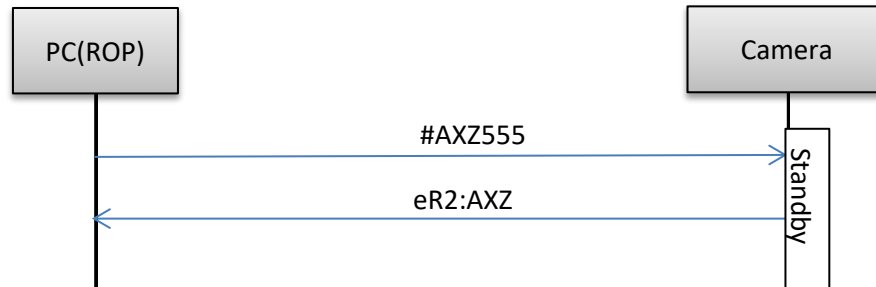
▼ER1 (unsupported command)

This error is generated when a command which is not supported by the camera has been received by the camera
example) When the non-existent “#AX” command is executed for the camera



▼ER2 (busy status)

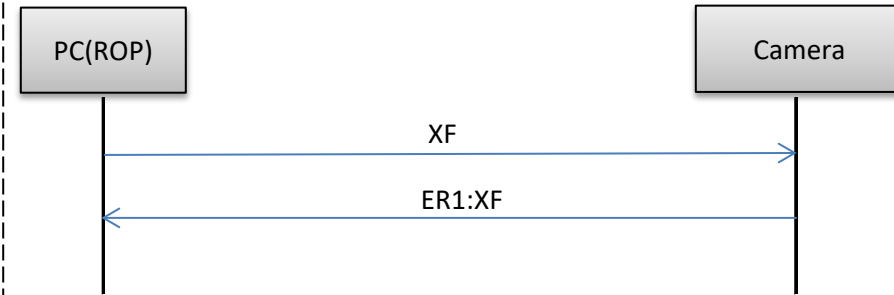
This error is generated during Standby (Power Off) or at other times when the camera is in the busy status.



In the case of Camera control command

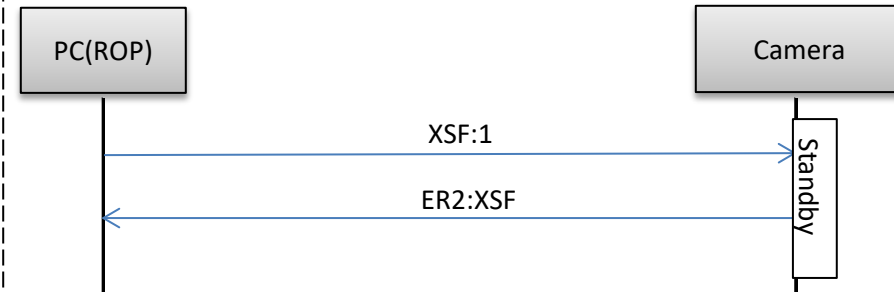
▼ER1 (unsupported command)

This error is generated when a command which is not supported by the camera has been received by the camera
example) When the non-existent “XF” command is executed for the camera



▼ER2 (busy status)

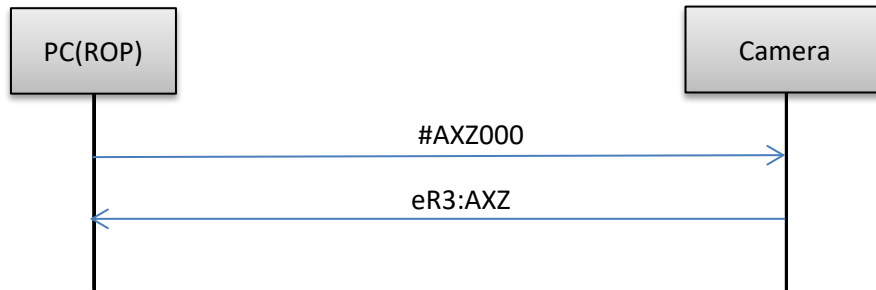
This error is generated during Standby (Power Off) or at other times when the camera is in the busy status.



▼ER3 (outside acceptable range)

This error is generated when the data value of a command is outside the acceptable range.

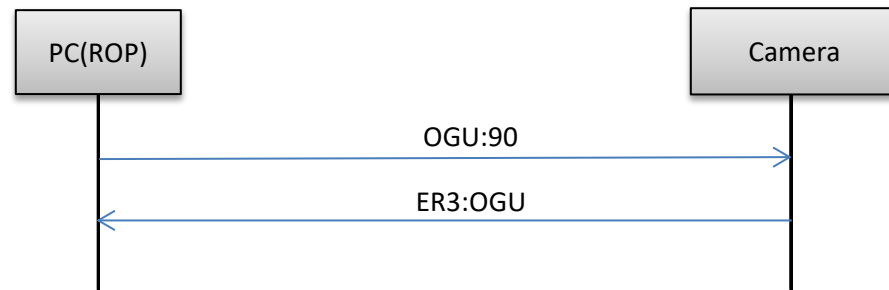
example) The “#AXZ” command was executed with a data value of “000” which is outside the acceptable range.



▼ER3 (outside acceptable range)

This error is generated when the data value of a command is outside the acceptable range.

example) The “OGU (gain setting)” command was executed with a data value of “90” which is outside the acceptable range.



8. AW-UE150A Menu-Command Correspondance Table

Menu	Command	Remarks
Camera		
Scene	XSF	
Brightness		
Picture Level	OSD:48	Available When "Iris Mode is Auto" or "Shutter Mode is ELC" or "Gain is Auto"
Iris Mode	ORS #D3	
Auto Iris Speed	OSJ:01	
Auto Iris Window	OSJ:02	
Auto Iris Close Limit	OSJ:00	
Shutter Mode	OSJ:03	
Step/Synchro	OSJ:04 OSJ:05 OSJ:06 OSJ:07 OSJ:08 OSJ:09	Available when Shutter Mode is Step or Synchro
ELC Limit	OSD:BF	Available when Shutter Mode is ELC
Gain	OGU	
Super Gain	OSI:28	
AGC Max Gain	OSD:69	
Frame Mix	OSA:65	Available when Shutter Mode is Off/ELC and Format is 59.95p/59.94i/50p/50i
ND Filter	OFT	Available when Day/Night is Day
Day/Night	#D6	Available when Color Setting is Normal
Picture		
White Balance Mode	OAW	
Color Temperature	OSI:1E OSI:1F OSI:20	Available when White Balance Mode is VAR
R Gain	OSG:39	Available when White Balance Mode is AWB A/AWB B/VAR
B Gain	OSG:3A	Available when White Balance Mode is AWB A/AWB B/VAR
Color TEMP. Setting		
White Balance Mode		
Color Temperature	OSJ:48 OSJ:49 OSJ:4A	Available when White Balance Mode is AWB A/AWB B
R Gain	OSJ:4B	Available when White Balance Mode is AWB A/AWB B
B Gain	OSJ:4C	Available when White Balance Mode is AWB A/AWB B
G Axis	OSJ:4D	Available when White Balance Mode is AWB A/AWB B
AWB Gain Offset	OSJ:0C	
ATW Speed	OSI:25	Available when White Balance Mode is ATW
ATW Target R	OSJ:0D	Available when White Balance Mode is ATW
ATW Target B	OSJ:0E	Available when White Balance Mode is ATW
Chroma Level	OSD:80	Available when Color Setting is Normal
Chroma Phase	OSJ:0B	Available when Color Setting is Normal
Master Pedestal	OSJ:0F	Available when Color Setting is Normal
R Pedestal	ORP	Available when Color Setting is Normal
G Pedestal	OSJ:10	Available when Color Setting is Normal
B Pedestal	OBP	Available when Color Setting is Normal
Pedestal Offset	OSJ:11	Available when Color Setting is Normal
Detail	ODT	Available when Color Setting is Normal
Master Detail	OSA:30	Available when Detail is On and Color Setting is Normal
Detail Coring	OSJ:12	Available when Detail is On and Color Setting is Normal
V Detail Level	OSD:A1	Available when Detail is On and Color Setting is Normal
Detail Frequency	OSD:A2	Available when Detail is On and Color Setting is Normal
Level Depend.	OSJ:13	Available when Detail is On and Color Setting is Normal
Knee Aperture Level	OSG:3F	Available when Detail is On and Color Setting is Normal
Detail Gain(+)	OSA:38	Available when Detail is On and Color Setting is Normal
Detail Gain(-)	OSA:39	Available when Detail is On and Color Setting is Normal
Skin Detail	OSA:40	Available when Detail is On and Color Setting is Normal
Skin Detail Effect	OSD:A3	Available when Detail is On, Skin Detail is On, and Color Setting is Normal
DownCon Detail	OSJ:14	Available when Format : 2160/* and Color Setting is Normal
DC. Master Detail	OSJ:15	Available when DownCon Detail is On, Format is 2160/*, and Color Setting is Normal
DC. Detail Coring	OSJ:16	Available when DownCon Detail is On, Format is 2160/*, and Color Setting is Normal
DC. Detail Frequency	OSJ:18	Available when DownCon Detail is On, Format is 2160/*, and Color Setting is Normal
Gamma Mode	OSE:72	Available when Color Setting is Normal
Gamma	OSA:6A	Available when HDR is Off
F-REC Dynamic Level	OSA:10	Available when Gamma Mode is FILM REC
F-REC Black STR. Level	OSA:0F	Available when Gamma Mode is FILM REC
V-REC Knee Slope	OSA:25	Available when Gamma Mode is VIDEO REC
V-REC Knee Point	OSA:21	Available when Gamma Mode is VIDEO REC
Black Gamma	OSA:07	Available when Color Setting is Normal
Black Gamma Range	OSJ:1B	Available when Color Setting is Normal
DRS	OSE:33	Available when HDR is Off
Knee Mode	OSA:2D	Available when HDR is Off and Color Setting is Normal
Auto Knee Response	OSG:97	Available when HDR is Off and Color Setting is Normal
Knee Point	OSA:20	Available when Knee Mode is Manual
Knee Slope	OSA:24	Available when Knee Mode is Manual
HLG Knee	OSI:40	Available when HDR is On and Color Setting is Normal
HLG Knee Point	OSI:41	Available when HLG Knee is On
HLG Knee Slope	OSI:42	Available when HLG Knee is On
White Clip	OSA:2E	Available when HDR is Off and Color Setting is Normal
White Clip Level	OSA:2A	Available when White Clip is On
DNR	OSD:3A	

Menu	Command	Remarks
Matrix		
Matrix Type	OSE:31	Available when Color Setting is Normal
Adaptive Matrix	OSJ:4F	Available when Color Setting is Normal
R-G	OSD:A4	Available when Matrix Type is User
R-B	OSD:A5	Available when Matrix Type is User
G-R	OSD:A6	Available when Matrix Type is User
G-B	OSD:A7	Available when Matrix Type is User
B-R	OSD:A8	Available when Matrix Type is User
B-G	OSD:A9	Available when Matrix Type is User
B Mg	OSD:80 OSD:81	Available when Matrix Type is User
Mg	OSD:82 OSD:83	Available when Matrix Type is User
Mg R	OSD:84 OSD:85	Available when Matrix Type is User
Mg R R	OSD:9A OSD:9B	Available when Matrix Type is User
R	OSD:86 OSD:87	Available when Matrix Type is User
R R YI	OSD:9C OSD:9D	Available when Matrix Type is User
R YI	OSD:88 OSD:89	Available when Matrix Type is User
R YI YI	OSD:9E OSD:9F	Available when Matrix Type is User
YI	OSD:8A OSD:8B	Available when Matrix Type is User
YI YI G	OSJ:1C OSJ:1D	Available when Matrix Type is User
YI G	OSD:8C OSD:8D	Available when Matrix Type is User
G	OSD:8E OSD:8F	Available when Matrix Type is User
G Cy	OSD:90 OSD:91	Available when Matrix Type is User
Cy	OSD:92 OSD:93	Available when Matrix Type is User
Cy B	OSD:94 OSD:95	Available when Matrix Type is User
B	OSD:96 OSD:97	Available when Matrix Type is User
Lens		
Focus Mode	OAF #D1	
Crop AF	OSJ:91	Available when UHD Crop is Crop(1080)/Crop(720)
Zoom Mode	OSE:70 OSD:B3	Available when PRESET PTZ SYNC MODE is OFF and UHD Crop is Off
Max Digital Zoom	OSE:7A	Available when Zoom Mode : D.Zoom and UHD Crop is Off
Digital Extender	ODE OSJ:4E	Available when Zoom Mode : Opt.Zoom and UHD Crop is Off
O. I. S. Mode	OIS	
System		
Frequency	OSE:77	
Format	OSA:87	
UHD Crop	OSJ:2E	Available when Format is 2160/*
Crop Zoom	OSJ:92	Available when UHD Crop is Crop(1080)/Crop(720)
Shooting Mode	OSI:30	
Color Setting	OSJ:56	
HDR	OSI:2C	Available when Color Setting is Normal
Gamut	OSL:02	Available when HDR is On
Genlock		
Horizontal Phase	OHP	
Tracking Data Output		
Serial	OSJ:54	
IP	OSJ:55	
Invert Pan/Tilt Axis	OSJ:C1	
Camera ID	OSJ:F4	
Wireless Control	#WLC	
Wireless ID	#RID	
Fan1	#FAN	
Fan2	#FA2	
Auto Tracking Mode	OSL:B6	
Angle	OSL:B7	
Target Marker	OSL:B8	
Tracking Status	OSL:BB	
Tracking Start	OSL:BC	
Tracking Stop	OSL:BC	
Tracking Auto Start	OSL:BD	
Home Position	OSL:C2	

Menu	Command	Remarks
Output		
12G SDI/OPTICAL		
Format	OSJ:1E	
HDR Output Select	OSJ:1F	Query only
V-Log Output Select	OSJ:57	Query only
3G SDI Out	OSJ:20	Available when 12G SDI/OPTICAL Format is 1080/59.94p or 1080/50p
3G SDI1		
Format	OSJ:21	
HDR Output Select	OSJ:22	Available when HDR is On and Color Setting is Normal
V-Log Output Select	OSJ:58	Available when Color Setting is V-Log
3G SDI Out	OSI:29	Available when 3G SDI1 Format is 1080/59.94p or 1080/50p
3G SDI2		
Format	OSJ:23	
HDR Output Select	OSJ:24	Query only
V-Log Output Select	OSJ:59	Query only
3G SDI Out	OSL:1A	Available when 3G SDI2 Format is 1080/59.94p or 1080/50p
HDMI		
Output Source	OSL:EA	
Format	OSJ:25	Query only
HDR Output Select	OSJ:26	Query only
V-Log Output Select	OSJ:5A	Query only
Video Sampling	OSE:68	Available when HDMI Format is 2160/59.94p or 2160/50p
Bar		
Color Bar Type	OSD:8A	Available when Bar is Colorbar
Tone	OSJ:27	Available when Bar is Colorbar
Audio		
Input Type	OSA:D1	Available when Audio is On
Volume Level	OSA:D5	Available when Audio is On
Plugin Power	OSA:D2	Available when Audio is On and Input Type is Mic
OSD Mix		
12G SDI/OPTICAL	OSE:7B	
3G SDI1	OSE:7B	
3G SDI2	OSE:7B	
HDMI	OSE:7B	
NDI	OSE:7B	
IP/NDI/HX	OSE:7B	
OSD Off With R-Tally	OSE:75	
OSD Status	OSA:88	
Tally	#TAE	
Tally LED Limit		
R	OSJ:D9	
G	OSJ:DA	
Y	OSL:05	
Tally Brightness	OSA:D3	
Status Lamp	#LMP	
External Output		
Output1	OSJ:41	
Output2	OSJ:42	
UHD Crop		
3G SDI1 Out	OSI:32	Available when UHD Crop is Crop(1080)/Crop(720)
Crop Out	OSI:16	Available when UHD Crop is Crop(1080)/Crop(720)
Crop Marker	OSI:1A	Available when UHD Crop is Crop(1080)/Crop(720)
Crop Adjust	OSI:17	Available when UHD Crop is Crop(1080)/Crop(720)
Crop H Position	OSJ:2F	Available when UHD Crop is Crop(1080)/Crop(720)
	OSJ:31	
	OSJ:33	
	OSJ:60	
Crop V Position	OSJ:30	Available when UHD Crop is Crop(1080)/Crop(720)
	OSJ:32	
	OSJ:34	
	OSJ:60	
Crop Zoom Ratio	OSJ:98	Available when UHD Crop is Crop(1080)/Crop(720)
	OSJ:99	
	OSJ:9A	
	OSJ:9B	

Menu	Command	Remarks
Pan/Tilt		
Install Position	#INS	
Smart Picture Flip	#SPF	
Flip Detect Angle	#FDA	Available when Smart Picture Flip is Auto
P/T Speed Mode	OSJ:2D	
P/T Acceleration Setting		
P/T Acceleration	OSJ:A2	
Rise S-Curve	OSJ:A3	Available when P/T Acceleration is Manual
Fall S-Curve	OSJ:A4	Available when P/T Acceleration is Manual
Rise Acceleration	OSJ:A5	Available when P/T Acceleration is Manual
Fall Acceleration	OSJ:A6	Available when P/T Acceleration is Manual
Speed With Zoom Position	#SWZ	
Focus Adjust With PTZ	QAZ	Available when Focus Mode is Manual
Privacy Mode	OSJ:A7	
Power On Position	OSJ:45	
Preset Number	OSJ:46	
Preset		
Preset PTZ Sync Mode	OSL:CE	
Preset Speed Unit	OSJ:29	
Preset Speed Table	#PST	
Preset Speed	#UPVS	
Preset Acceleration Setting		
Preset Acceleration	OSJ:A8	Available when Preset PTZ Sync Mode is On
Rise S-Curve	OSJ:A9	Available when Preset Acceleration is Manual
Fall S-Curve	OSJ:AA	Available when Preset Acceleration is Manual
Rise Acceleration	OSJ:AB	Available when Preset Acceleration is Manual and Preset Speed Unit is Speed Table
Fall Acceleration	OSJ:AC	Available when Preset Acceleration is Manual and Preset Speed Unit is Speed Table
Rise Ramp Time	OSJ:AD	Available when Preset Acceleration is Manual and Preset Speed Unit is Time
Fall Ramp Time	OSJ:AE	Available when Preset Acceleration is Manual and Preset Speed Unit is Time
Preset Scope	OSE:71	
Preset Digital Extender	OSE:7C	
Preset Crop	OSJ:2A	Available when Format is 2160/* and UHD Crop is Crop(1080)/Crop(720)
Preset Thumbnail Update	OSJ:2B	
Preset Name	OSJ:2C	
Preset Iris	OSJ:5B	Available when Preset Scope is Mode A/ModeB
Preset Shutter	OSJ:D5	Available when Preset Scope is Mode A
Preset Zoom Mode	OSE:7D	Available when Preset PTZ Sync Mode is Off
Freeze During Preset	#PRE	
Maintenance		
Firmware Version		
System Version	QSV	
CPU Software		
Main/Network		
Camera		
Lens		
Servo		
EEPROM		
Main/Network		
FPGA		
Network		
Enc		
R5T		
R5R		
Logic		
IP Network		
IP Address		
Subnet Mask		
Default Gateway		
Set Execute		
Initialize		
All		
Scene All		
Scene1		
Scene2		
Scene3		
Scene4		
Hour Meter		
Operation		
Fan1		
Fan2		
HDMI Status		
Connect		
Format		
Video Sampling		
HDR Output		
Monitor		
Error Status		
Lens		
Pan/Tilt		
Fan		
Temperature		
Level Gauge		
Left/Right		
Front/Back		
Connector Setting		
SFP+ Power		

Commands not linked to menus

Menu	Command	Remarks
Brightness		
Auto Iris Window Position	OSL:CD	
Picture		
AWB	OWS	
ABB	OAS	
Lens		
Zoom Scale	QSD:3D	
Digital Zoom Magnification	OSE:76	
Zoom Speed Control	#Z	
Zoom Position Control	#AXZ	
Focus Speed Control	#F	Available when Focus Mode is Manual
Focus Position Control	#AXF	Available when Focus Mode is Manual
Push Auto Focus	OSE:69	Available when Focus Mode is Manual
Touch AF	OSJ:28	Available when Focus Mode is Manual and UHD Crop is Off
Iris Control	#AXI #I ORV	Available when Iris Mode is Manual
Iris Follow	QSD:4F	
Lens Position Information	#LPI	
Lens Position Information Control	#LPC	
Request Iris F No.	QIF	
Request Zoom Position	#GZ	
Request Focus Position	#GF	
Request Iris Position	#GI	
System		
Sync Status	QSL:C7	
Fan1 Status	#FS1	
Fan2 Status	#FS2	
MASK TOP	OSL:BE	
MASK BOTTOM	OSL:BF	
MASK LEFT	OSL:C0	
MASK RIGHT	OSL:C1	
Output		
Level Gauge Request Inclination	QSL:AF	
R-Tally Control	TLR #DA	
G-Tally Control	TLG	
Y-Tally Control	TLY	
Tally Information	#TAA	
Crop		
Crop H Position	OSJ:AF	
Crop V Position	OSJ:B0	
Crop H/V Position Speed Control	OSI:15	
Crop H/V Position Speed Control (YI)	OSJ:5D	
Crop H/V Position Speed Control (G)	OSJ:5E	
Crop H/V Position Speed Control (Mg)	OSJ:5F	
Crop H/V Position Speed Control (YI/G/Mg)	OSJ:A0	
Crop Zoom Ratio	OSJ:B1	
Crop Zoom Ratio Speed Control	OSJ:9C	
Crop Zoom Ratio Speed Control (YI)	OSJ:9D	
Crop Zoom Ratio Speed Control (G)	OSJ:9E	
Crop Zoom Ratio Speed Control (Mg)	OSJ:9F	
Crop Zoom Ratio Speed Control (YI/G/Mg)	OSJ:A1	
Crop Position / Crop Zoom Position Speed Control (YL/G/MG)	OSJ:C2	
Request Crop Position/Crop Zoom Position	OSJ:C3	

Menu	Command	Remarks
Pan/Tilt		
Flip Status	QFS	
Pan Speed Control	#P	
Pan Speed(Ex)	#HP	
Tilt Speed Control	#T	
Tilt Speed(Ex)	#HT	
P/T Speed Control	#PTS	
P/T Speed Control(Ex)	#HPT	
P/T Absolute Position Control with Speed and acceleration (PT Independent Control)	#HAC	
P/T Absolute Position Control	#APC	
P/T Relative Position Control	#RPC	
P/T Absolute Position Control with Speed	#APS	
P/T Relative Position Control with Speed	#RPS	
Limitation Control	#LC	
Limitation Control(toggle)	#L	
Preset		
Recall Preset Memory	#R	
Save Preset Memory	#M	
Delete Preset Memory	#C	
Preset Entry Confirmation	#PE	
Request Latest Recall Preset No.	#S	
Preset completion notification	q	
Save Preset Name	OSJ:35	
Delete Preset Name(Single)	OSJ:36	
Delete Preset Name(All)	OSJ:37	
Update Preset Thumbnail	OSJ:39	
Delete Preset Thumbnail(Single)	OSJ:3A	
Delete Preset Thumbnail(All)	OSJ:3B	
Preset Name/Preset Thumbnail Counter	OSJ:3C	
Convenient command		
Get Gain/Color Temperature/Shutter/ND	#PTG	
Get Pan/Tilt/Zoom/Focus/Iris	#PTV	
Get Pan/Tilt/Zoom/Focus/Iris	#PTD	
PTZF Speed Control 1	#HV1	
PTZF Speed Control 2	#HV2	
PTZF Absolute Control	#HAT	
OSD		
Menu On/Off	DUS	
Menu Cancel	DPG	Available when Menu is On
Menu Enter	DIT	Available when Menu is On
Menu Up	DUP	Available when Menu is On
Menu Down	DDW	Available when Menu is On
Menu Right	DRT	Available when Menu is On
Menu Left	DLT	Available when Menu is On
Remote		
Operation Lock	OSJ:3E	
Release Operation Lock	OSJ:3F	
Operation Lock Status	OSJ:40	
Error		
Error Information	QER	
Error Information	QSI:46	
Latest Error Information	#RER	
Others		
Model Number	QID	
Software Version	#QSV	
Power On / Standby	#O	
Resolution Control	#RZL	
Camera Title	OSJ:5C	

9. Command List Scene

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Scene File	Control	XSF:[Data]	0 1 2	- Scene1 Scene2	cam *1	XSF:[Data] *2	OSF:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=XSF:1&res=1
	Response	XSF:[Data]	3 4	Scene3 Scene4				
	Request	QSF	0 1 2	Scene1 Scene2 Scene3				
	Response	OSF:[Data]	3 4	Scene4 -				

*1. There are two type of command type "ptz" is Pan-Tilt head Control and "cam" is for camera control

*2. When switching scene, update notification of each command belonging to the scene wii be sent

Item	Command	Item	Command
Scene	XSF	Gamma	OSA:6A
Picture Level	OSD:48	F-REC Dynamic Level	OSA:10
Gamma Mode	OSE:72	F-REC Black STR. Level	OSA:0F
Iris Mode	ORS #D3	V-REC Knee Slope	OSA:25
Auto Iris Speed	OSJ:01	V-REC Knee Point	OSA:21
Auto Iris Wondow	OSJ:02	Black Gamma	OSA:07
Auto Iris Close Limit	OSJ:C0	Black Gamma Range	OSJ:1B
Shutter Mode	OSJ:03	DRS	OSE:33
Step/Synchro	OSJ:06 OSJ:09	Knee mode	OSA:2D
ELC Limit	OSD:BF	Auto Knee Response	OSG:97
Gain	OGU	Knee Point	OSA:20
Super Gain	OSI:28	Knee Slope	OSA:24
AGC MaxGain	OSD:69	HLG Knee	OSI:40
Frame mix	OSA:65	HLG Knee Point	OSI:41
ND Filter	OFT	HLG Knee Slope	OSI:42
Day/Night	#D6	White Clip	OSA:2E
Auto F.Mix Max Gain	OSE:74	White Clip Level	OSA:2A
White Balance Mode	OAW	DNR	OSD:3A
Color Temperature	OSI:20	Matrix Type	OSE:31
R Gain	OSG:39	R-G	OSD:A4
B Gain	OSG:3A	R-B	OSD:A5
AWB Gain Offset	OSJ:0C	G-R	OSD:A6
ATW Speed	OSI:25	G-B	OSD:A7
ATW Target R	OSJ:0D	B-R	OSD:A8
ATW Target B	OSJ:0E	B-G	OSD:A9

Item	Command	Item	Command
Chroma Level	OSD:B0	Adaptive Matrix	OSJ:4F
Chroma Phase	OSJ:0B	B_Mg	OSD:80 OSD:81
Master Pedestal	OSJ:0F	Mg	OSD:82 OSD:83
R Pedestal	ORP	Mg_R	OSD:84 OSD:85
G Pedestal	OSJ:10	Mg_R_R	OSD:9A OSD:9B
B Pedestal	OBP	R	OSD:86 OSD:87
Pedestal Offset	OSJ:11	R_R_YI	OSD:9C OSD:9D
Detail	ODT	R_YI	OSD:88 OSD:89
Master Detail	OSA:30	R_YI_YI	OSD:9E OSD:9F
Detail Coring	OSJ:12	YI	OSD:8A OSD:8B
V Detail Level	OSD:A1	YI_YI_G	OSJ:1C OSJ:1D
Detail Frequency	OSD:A2	YI_G	OSD:8C OSD:8D
Level Depend.	OSJ:13	G	OSD:8E OSD:8F
Knee Aperture Level	OSG:3F	G_Cy	OSD:90 OSD:91
Detail Gain(+)	OSA:38	Cy	OSD:92 OSD:93
Detail Gain(-)	OSA:39	Cy_B	OSD:94 OSD:95
Skin Detail	OSA:40	B	OSD:96 OSD:97
Skin Detail Effect	OSD:A3	Color Temperature	OSJ:4A
DownCon Detail	OSJ:14	AWB R Gain	OSJ:4B
DC. Master Detail	OSJ:15	AWB B Gain	OSJ:4C
DC. Detail Coring	OSJ:16	AWB G Axis	OSJ:4D
DC. Detail Frequency	OSJ:18	Auto Iris Window Position	OSL:CD

Brightness

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Picture Level	Control	OSD:48:[Data]	00h	-50	cam	OSD:48:[Data]	OSD:48:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:48:32&res=1
	Response	OSD:48:[Data]	-	-				
	Request	QSD:48	32h	0				
	Response	OSD:48:[Data]	64h	50				
Iris Mode	Control	ORS:[Data]	0 1	Manual Auto	cam	ORS:[Data]	ORS:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=ORS:1&res=1
	Response	ORS:[Data]						
	Request	QRS						
	Response	ORS:[Data]						
Iris Mode	Control	#D3[Data]	0 1	Manual Auto	ptz	d3[Data]	d3[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23D30&res=1
	Response	d3[Data]						
	Request	#D3						
	Response	d3[Data]						
Auto Iris Speed	Control	OSJ:01:[Data]	0 1 2	Slow Normal Fast	cam	OSJ:01:[Data]	OSJ:01:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:01:0&res=1
	Response	OSJ:01:[Data]						
	Request	QJ:01						
	Response	OSJ:01:[Data]						
Auto Iris Window	Control	OSJ:02:[Data]	0 1 2 3	Normal1 Normal2 Center User	cam	OSJ:02:[Data]	OSJ:02:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:02:0&res=1
	Response	OSJ:02:[Data]						
	Request	QJ:02						
	Response	OSJ:02:[Data]						
Auto Iris Window Position	Control	OSL:CD:[Data1]:[Data2]:[Data3]:[Data4]	[Data1] 00h - 08h	[Data1]Upper Left (H) 0 - 8	cam	OSL:CD:[Data1]:[Data2]:[Data3]:[Data4]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:CD:0:0:8:4&res=1
	Response	OSL:CD:[Data1]:[Data2]:[Data3]:[Data4]	[Data2] 00h - 04h	[Data2]Upper Left (V) 0 - 4				
	Request	QSL:CD	[Data3] 00h - 08h	[Data3]Bottom Right (H) 0 - 8				
	Response	OSL:CD:[Data1]:[Data2]:[Data3]:[Data4]	[Data4] 00h - 04h	[Data4]Bottom Right (V) 0 - 4				
Auto Iris Close Limit	Control	OSJ:C0:[Data]	0 1 2 3	Normal F8 F7 F5.6	cam	OSJ:C0:[Data]	OSJ:C0:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:C0:0&res=1
	Response	OSJ:C0:[Data]						
	Request	QJ:C0						
	Response	OSJ:C0:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Shutter Mode	Control	OSJ:03: [Data]	0	Off Step Synchro ELC	cam	OSJ:03: [Data]	OSJ:03:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:03:1&res=1
	Response	OSJ:03: [Data]	1					
	Request	QSJ:03	2					
	Response	OSJ:03: [Data]	3					
Step Inc	Control	OSJ:04: [Data]	01h - 64h	1 - 100	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:04:01&res=1 Increase [Data] stage among selectable Shutter Steps Update notification of OSJ:06 is sent
	Response	OSJ:04: [Data]						
	Request	-						
	Response	-						
Step Dec	Control	OSJ:05: [Data]	01h - 64h	1 - 100	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:05:01&res=1 Increase [Data] stage among selectable Shutter Steps Update notification of OSJ:06 is sent
	Response	OSJ:05: [Data]						
	Request	-						
	Response	-						
Step VAL	Control	OSJ:06: [Data]	0001h - 2710h	1/1 - 1/10000	cam	OSJ:06: [Data]	OSJ:06:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:06:003C&res=1 Specify the denominator value of [Setting] in [Data] (hexadecimal number) Except for the effective shutter speed, respond with ER3 - 59.94p / 59.94i mode 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 - 29.97p mode 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 - 23.98p / 24p mode 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 - 50p / 50i mode 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 - 25p mode 1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
	Response	OSJ:06: [Data]						
	Request	QSJ:06						
	Response	OSJ:06: [Data]						
Synchro Inc	Control	OSJ:07: [Data]	01h - 64h	1 - 100	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:07:01&res=1 Increase [Data] stage among selectable Shutter Steps Update notification of OSJ:09 is sent
	Response	OSJ:07: [Data]						
	Request	-						
	Response	-						
Synchro Dec	Control	OSJ:08: [Data]	01h - 64h	1 - 100	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:08:01&res=1 Increase [Data] stage among selectable Shutter Steps Update notification of OSJ:09 is sent
	Response	OSJ:08: [Data]						
	Request	-						
	Response	-						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Synchro VAL	Control	OSJ:09:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:09:00258&res=1
	Response	OSJ:09:[Data]						Specify a value that is 10 times the [Set value] for [Data] (hexadecimal number).
	Request	Q SJ:09	00000h - 186A0h	0.0[Hz] - 10000.0[Hz]	cam	OSJ:09:[Data]	OSJ:09:0x[Data]	Except for the effective shutter speed, round down <ul style="list-style-type: none"> • 59.94p / 59.94i mode 60.0Hz~7200Hz • 29.97p mode 30.0Hz~7200Hz • 23.98p / 24p mode 24.0Hz~7200Hz • 50p / 50i mode 50.0Hz~7200Hz • 25p mode 25.0Hz~7200Hz
	Response	OSJ:09:[Data]						
ELC Limit (Auto Shutter Limit)	Control	OSD:BF:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:BF:2&res=1
	Response	OSD:BF:[Data]	2	1/100	cam	OSD:BF:[Data]	OSD:BF:[Data]	
	Request	QSD:BF	3	1/120				
	Response	OSD:BF:[Data]	4	1/250				
Gain	Control	OGU:[Data]	05h	-3dB				http://192.168.0.10/cgi-bin/aw_cam?cmd=OGU:08&res=1
	Response	OGU:[Data]	08h	0dB	cam	OGU:[Data]	OGU:0x[Data]	When Super Gain is Off Auto, -3dB~36dB
	Request	QGU	2Ch	36dB				When Super Gain is On Auto, -3dB~42dB
	Response	OGU:[Data]	32h 80h	42dB AGC On				
Super Gain	Control	OSI:28:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:28:0&res=1
	Response	OSI:28:[Data]	0	Off	cam	OSI:28:[Data]	OSI:28:[Data]	
	Request	QSI:28	1	On				
	Response	OSI:28:[Data]						
AGC Max Gain	Control	OSD:69:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:69:01&res=1
	Response	OSD:69:[Data]	01	6dB	cam	OSD:69:[Data]	OSD:69:[Data]	
	Request	QSD:69	02	12dB				
	Response	OSD:69:[Data]	03	18dB				
Fram Mix	Control	OSA:65:[Data]	00h	Off				http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:65:00&res=1
	Response	OSA:65:[Data]	06h	+6dB	cam	OSA:65:[Data]	OSA:65:0x[Data]	
	Request	QSA:65	0Ch	+12dB				
	Response	OSA:65:[Data]	12h 18h	+18dB +24dB				
ND Filter	Control	OFT:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OFT:0&res=1
	Response	OFT:[Data]	0	Through	cam	OFT:[Data]	OFT:[Data]	
	Request	QFT	1	1/4 ND				
	Response	OFT:[Data]	2 3	1/16 ND 1/64 ND				
Day/Night	Control	#D6[Data]						http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23D60&res=1
	Response	d6[Data]	0	Off	ptz	d6[Data]	d6[Data]	
	Request	#D6	1	On				
	Response	d6[Data]						

Picture

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
White Balance Mode	Control	OAW: [Data]	0 1 2 3	ATW AWC A AWC B ---	cam	OAW: [Data]	OAW: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OAW:1&res=1 ATW variable range is from 2000k to 15000K
	Response	OAW: [Data]	4 5 9	PRESET 3200K PRESET 5600K VAR				
	Request	QAW	0 1 2 3	ATW ---				
	Response	OAW: [Data]	4 5 9	AWC A AWC B PRESET 3200K PRESET 5600K VAR				
AWB	Control	OWS	-	-	cam	OWS ER3:OWS	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OWS&res=1 See Chapter 6 for AWB execution sequence When Day/Night is Night, AWB is unavailable
	Response	OWS						
	Request	-						
	Response	-						
ABB	Control	OAS	-	-	cam	OAS ER3:OAS	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OAS&res=1
	Response	OAS						
	Request	-						
	Response	-						
Color Temperature Inc	Control	OSI:1E: [Data]	1h - Ah	1 - 10	cam	OSI:1E: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:1E:1&res=1 Increase [Data] stage among selectable Color Temperature Update notification of OSI:20 is sent
	Response	OSI:1E: [Data]						
	Request	-						
	Response	-						
Color Temperature Dec	Control	OSI:1F: [Data]	1h - Ah	1 - 10	cam	OSI:1F: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:1F:1&res=1 Decrease [Data] stage among selectable Color Temperature Update notification of OSI:20 is sent
	Response	OSI:1F: [Data]						
	Request	-						
	Response	-						
Color Temperature	Control	OSI:20: [Data1]: [Data2]	[Data1] 007D0h - 03A98h [Data2] 0h 1h 2h	[Data1] 2000K - 15000K [Data2] Valid Under Over	cam	OSI:20: [Data1]: [Data2]	OSI:20:0x[Data1]: [Data2]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:20:007D0&res=1 Except for the effective Color Temperature, round down
	Response	OSI:20: [Data1]: [Data2]						
	Request	QSI:20						
	Response	OSI:20: [Data1]: [Data2]						
R Gain	Control	OSG:39: [Data]	738h - 800h - 8C8h	-200 - 0 - 200	cam	OSG:39: [Data]	OSG:39:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:39:800&res=1
	Response	OSG:39: [Data]						
	Request	QSG:39						
	Response	OSG:39: [Data]						
B Gain	Control	OSG:3A: [Data]	738h - 800h - 8C8h	-200 - 0 - 200	cam	OSG:3A: [Data]	OSG:3A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:3A:800&res=1
	Response	OSG:3A: [Data]						
	Request	QSG:3A						
	Response	OSG:3A: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
AWB Color Temperature Inc	Control	OSJ:48:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:48:1&res=1
	Response	OSJ:48:[Data]	1h	1	cam	OSJ:48:[Data]	-	Increase [Data] stage among selectable Color Temperature Update notification of OSJ:4A is sent
	Request	-	Ah	10				
	Response	-						
Control	OSJ:49:[Data]							
AWB Color Temperature Dec	Response	OSJ:49:[Data]	1h	1	cam	OSJ:49:[Data]	-	Decrease [Data] stage among selectable Color Temperature Update notification of OSJ:4A is sent
	Request	-	Ah	10				
	Response	-						
	Control	OSJ:4A:[Data1]:[Data2]						
AWB Color Temperature	Response	OSJ:4A:[Data1]:[Data2]	[Data1] 007D0h	[Data1] 2000K	cam	OSJ:4A:[Data1]:[Data2]	OSJ:4A:0x[Data1]:[Data2]	Except for the effective Color Temperature, round down
	Request	QSJ:4A	03A98h [Data2] 0h	15000K [Data2] Valid				
	Response	OSJ:4A:[Data1]:[Data2]	1h 2h	Under Over				
	Control	OSJ:4B:[Data]	670h	-400				
Response	OSJ:4B:[Data]	-	-					
Request	QSJ:4B	800h	0					
Response	OSJ:4B:[Data]	990h	400					
AWB B Gain	Control	OSJ:4C:[Data]	670h	-400	cam	OSJ:4C:[Data]	OSJ:4C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:4C:800&res=1
	Response	OSJ:4C:[Data]	-	-				
	Request	QSJ:4C	800h	0				
	Response	OSJ:4C:[Data]	990h	400				
AWB G Axis	Control	OSJ:4D:[Data]	670h	-400	cam	OSJ:4D:[Data]	OSJ:4D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:4D:800&res=1
	Response	OSJ:4D:[Data]	-	-				
	Request	QSJ:4D	800h	0				
	Response	OSJ:4D:[Data]	990h	400				
AWB Gain Offset	Control	OSJ:0C:[Data]			cam	OSJ:0C:[Data]	OSJ:0C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:0C:0&res=1
	Response	OSJ:0C:[Data]	0	Off				
	Request	QSJ:0C	1	On				
	Response	OSJ:0C:[Data]						
ATW Speed	Control	OSI:25:[Data]			cam	OSI:25:[Data]	OSI:25:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:25:0&res=1
	Response	OSI:25:[Data]	0	Normal				
	Request	QSJ:25	1	Slow				
	Response	OSI:25:[Data]	2	Fast				
ATW Target R	Control	OSJ:0D:[Data]	76h	-10	cam	OSJ:0D:[Data]	OSJ:0D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:0D:80&res=1
	Response	OSJ:0D:[Data]	-	-				
	Request	QSJ:0D	80h	0				
	Response	OSJ:0D:[Data]	8Ah	+10				
ATW Target B	Control	OSJ:0E:[Data]	76h	-10	cam	OSJ:0E:[Data]	OSJ:0E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:0E:80&res=1
	Response	OSJ:0E:[Data]	-	-				
	Request	QSJ:0E	80h	0				
	Response	OSJ:0E:[Data]	8Ah	+10				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Chroma Level	Control	OSD:B0: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:B0:80&res=1
	Response	OSD:B0: [Data]	00h 1Dh -	OFF -99% -	cam	OSD:B0: [Data]	OSD:B0:0x[Data]	Step:1%
	Request	QSD:B0	80h -	0 -				
	Response	OSD:B0: [Data]	E3h	99%				
Control	OSJ:0B: [Data]	61h -	-31 -	cam				
Response	OSJ:0B: [Data]	80h -	0 -					
Request	QSD:0B	9Fh	+31					
Response	OSJ:0B: [Data]							
Master Pedestal	Control	OSJ:0F: [Data]	738h -	-200 -	cam	OSJ:0F: [Data]	OSJ:0F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:0F:800&res=1
	Response	OSJ:0F: [Data]	800h -	0 -				
	Request	QSD:0F	8C8h	200				
	Response	OSJ:0F: [Data]						
R Pedestal	Control	ORP: [Data]	032h -	-100 -	cam	ORP: [Data]	ORP:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=ORP:096&res=1
	Response	ORP: [Data]	096h -	0 -				
	Request	QRP	0FAh	+100				
	Response	ORP: [Data]						
G Pedestal	Control	OSJ:10: [Data]	032h -	-100 -	cam	OSJ:10: [Data]	OSJ:10:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:10:096&res=1
	Response	OSJ:10: [Data]	096h -	0 -				
	Request	QSD:10	0FAh	+100				
	Response	OSJ:10: [Data]						
B Pedestal	Control	OBP: [Data]	032h -	-100 -	cam	OBP: [Data]	OBP:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OBP:960&res=1
	Response	OBP: [Data]	096h -	0 -				
	Request	QBP	0FAh	+100				
	Response	OBP: [Data]						
Pedestal Offset	Control	OSJ:11: [Data]			cam	OSJ:11: [Data]	OSJ:11: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:11:0&res=1
	Response	OSJ:11: [Data]	0	Off				
	Request	QSD:11	1	On				
	Response	OSJ:11: [Data]						
Detail	Control	ODT: [Data]			cam	ODT: [Data]	ODT: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=ODT:1&res=1
	Response	ODT: [Data]	0	Off				
	Request	QDT	1	On				
	Response	ODT: [Data]	2	On				
Master Detail	Control	OSA:30: [Data]	61h -	-31 -	cam	OSA:30: [Data]	OSA:30: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:30:80&res=1
	Response	OSA:30: [Data]	80h -	0 -				
	Request	QSA:30	9Fh	+31				
	Response	OSA:30: [Data]						
Detail Coring	Control	OSJ:12: [Data]			cam	OSJ:12: [Data]	OSJ:12:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:12:00&res=1
	Response	OSJ:12: [Data]	00h -	0 -				
	Request	QSD:12	3Ch	60				
	Response	OSJ:12: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
V Detail Level	Control	OSD:A1:[Data]	79h	-7	cam	OSD:A1:[Data]	OSD:A1:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A1:80&res=1
	Response	OSD:A1:[Data]	-	-				
	Request	QSD:A1	80h	0				
	Response	OSD:A1:[Data]	87h	7				
Detail Frequency	Control	OSD:A2:[Data]	79h	-7	cam	OSD:A2:[Data]	OSD:A2:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A2:80&res=1
	Response	OSD:A2:[Data]	-	-				
	Request	QSD:A2	80h	0				
	Response	OSD:A2:[Data]	87h	7				
Level Depend	Control	OSJ:13:[Data]	79h	-7	cam	OSJ:13:[Data]	OSJ:13:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:13:80&res=1
	Response	OSJ:13:[Data]	-	-				
	Request	QSD:13	80h	0				
	Response	OSJ:13:[Data]	87h	7				
Knee Ape. Level	Control	OSG:3F:[Data]	00h	0	cam	OSG:3F:[Data]	OSG:3F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:3F:00&res=1
	Response	OSG:3F:[Data]	-	-				
	Request	QSG:3F	05h	5				
	Response	OSG:3F:[Data]						
Detail Gain(+)	Control	OSA:38:[Data]	61h	-31	cam	OSA:38:[Data]	OSA:38:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:38:80&res=1
	Response	OSA:38:[Data]	-	-				
	Request	QSA:38	80h	0				
	Response	OSA:38:[Data]	9Fh	+31				
Detail Gain(-)	Control	OSA:39:[Data]	61h	-31	cam	OSA:39:[Data]	OSA:39:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:39:80&res=1
	Response	OSA:39:[Data]	-	-				
	Request	QSA:39	80h	0				
	Response	OSA:39:[Data]	9Fh	+31				
Skin Tone Detail	Control	OSA:40:[Data]	0	Off	cam	OSA:40:[Data]	OSA:40:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:40:0&res=1
	Response	OSA:40:[Data]	1	On				
	Request	QSA:40						
	Response	OSA:40:[Data]						
Skin Detail Effect	Control	OSD:A3:[Data]	80h	0	cam	OSD:A3:[Data]	OSD:A3:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A3:80&res=1
	Response	OSD:A3:[Data]	-	-				
	Request	QSD:A3	9Fh	+31				
	Response	OSD:A3:[Data]						
DownCon Detail	Control	OSJ:14:[Data]	0	Off	cam	OSJ:14:[Data]	OSJ:14:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:14:0&res=1
	Response	OSJ:14:[Data]	1	On				
	Request	QSD:14						
	Response	OSJ:14:[Data]						
DownCon Detail Master Detail	Control	OSJ:15:[Data]	81h	1	cam	OSJ:15:[Data]	OSJ:15:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:15:81&res=1
	Response	OSJ:15:[Data]	82h	2				
	Request	QSD:15	83h	3				
	Response	OSJ:15:[Data]						
DownCon Detail Detail Coring	Control	OSJ:16:[Data]	00h	0	cam	OSJ:16:[Data]	OSJ:16:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:16:03&res=1
	Response	OSJ:16:[Data]	-	-				
	Request	QSD:16	07h	7				
	Response	OSJ:16:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
DownCon Detail Detail Frequency	Control	OSJ:18: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:18:82&res=1
	Response	OSJ:18: [Data]	81h	1	cam	OSJ:18: [Data]	OSJ:18:0x[Data]	
	Request	Q SJ:18	82h	2				
	Response	OSJ:18: [Data]	83h	3				
Control	OSE:72: [Data]	0	HD					
Gamma Mode	Response	OSE:72: [Data]	2	FILMLIKE1	cam	OSE:72: [Data]	OSE:72: [Data]	
	Request	QSE:72	3	FILMLIKE2				
	Response	OSE:72: [Data]	4	FILMLIKE3				
	Response	OSE:72: [Data]	5	FILM REC				
	Response	OSE:72: [Data]	6	VIDEO REC				
Gamma	Control	OSA:6A: [Data]	67h	0.30	cam	OSA:6A: [Data]	OSA:6A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:6A:67&res=1
	Response	OSA:6A: [Data]	-	-				Step : 0.01
	Request	QSA:6A	80h	0.55				
	Response	OSA:6A: [Data]	94h	0.75				
F-REC Dynamic LVL	Control	OSA:10: [Data]	0	200%	cam	OSA:10: [Data]	OSA:10: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:10:1&res=1
	Response	OSA:10: [Data]	1	300%				
	Request	QSA:10	2	400%				
	Response	OSA:10: [Data]	3	500%				
F-REC Black STR LVL	Response	OSA:10: [Data]	4	600%				
	Control	OSA:0F: [Data]			cam	OSA:0F: [Data]	OSA:0F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:0F:10&res=1
	Response	OSA:0F: [Data]	00h	0				
	Request	QSA:0F	-	-				
Response	OSA:0F: [Data]	1Eh	30					
V-REC Knee Slope	Control	OSA:25: [Data]			cam	OSA:25: [Data]	OSA:25:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:25:81&res=1
	Response	OSA:25: [Data]	7Ch	150%				
	Request	QSA:25	80h	350%				
	Response	OSA:25: [Data]	83h	500% (1step=50%)				
V-REC Knee Point	Control	OSA:21: [Data]			cam	OSA:21: [Data]	OSA:21:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:21:81&res=1
	Response	OSA:21: [Data]	62h	30%				
	Request	QSA:21	80h	60%				
	Response	OSA:21: [Data]	9Eh	90%				
Black Gamma	Response	OSA:21: [Data]	Afh	107%				
	Control	OSA:07: [Data]	78h	-8	cam	OSA:07: [Data]	OSA:07:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:07:80&res=1
	Response	OSA:07: [Data]	-	-				
	Request	QSA:07	80h	0				
Response	OSA:07: [Data]	88h	8					
B Gamma Range	Control	OSJ:1B: [Data]			cam	OSJ:1B: [Data]	OSJ:1B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:1B:1&res=1
	Response	OSJ:1B: [Data]	1	1				
	Request	Q SJ:1B	2	2				
	Response	OSJ:1B: [Data]	3	3				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
DRS	Control	OSE:33: [Data]	0	OFF	cam	OSE:33: [Data]	OSE:33: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:33:1&res=1
	Response	OSE:33: [Data]	1	LOW				
	Request	QSE:33	2	MID				
	Response	OSE:33: [Data]	3	HIGH				
Knee Mode	Control	OSA:2D: [Data]	0	Off	cam	OSA:2D: [Data]	OSA:2D: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2D:0&res=1
	Response	OSA:2D: [Data]	1	Manual				
	Request	QSA:2D	2	Auto				
	Response	OSA:2D: [Data]						
Auto Knee Response	Control	OSG:97: [Data]	1	1	cam	OSG:97: [Data]	OSG:97: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:97:1&res=1
	Response	OSG:97: [Data]	8	8				
	Request	QSG:97						
	Response	OSG:97: [Data]						
Knee Point	Control	OSA:20: [Data]	22h	70.00%	cam	OSA:20: [Data]	OSA:20:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:20:4A&res=1 Step : 0.5%
	Response	OSA:20: [Data]	4Ah	80.00%				
	Request	QSA:20	80h	93.50%				
	Response	OSA:20: [Data]	B6h	107.00%				
Knee Slope	Control	OSA:24: [Data]	00h	0	cam	OSA:24: [Data]	OSA:24:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:24:00&res=1
	Response	OSA:24: [Data]	63h	99				
	Request	QSA:24						
	Response	OSA:24: [Data]						
HLG Knee SW	Control	OSI:40: [Data]	0	Off	cam	OSI:40: [Data]	OSI:40: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:40:1&res=1
	Response	OSI:40: [Data]	1	On				
	Request	QSI:40						
	Response	OSI:40: [Data]						
HLG Knee Point	Control	OSI:41: [Data]	1Ch	55.00%	cam	OSI:41: [Data]	OSI:41:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:41:81&res=1 1step=0.25%
	Response	OSI:41: [Data]	80h	80.00%				
	Request	QSI:41						
	Response	OSI:41: [Data]	D0h	100.00%				
HLG Knee Slope	Control	OSI:42: [Data]	00h	0	cam	OSI:42: [Data]	OSI:42:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:42:01&res=1
	Response	OSI:42: [Data]	64h	100				
	Request	QSI:42						
	Response	OSI:42: [Data]						
White Clip	Control	OSA:2E: [Data]	0	Off	cam	OSA:2E: [Data]	OSA:2E: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2E:0&res=1
	Response	OSA:2E: [Data]	1	On				
	Request	QSA:2E						
	Response	OSA:2E: [Data]						
White Clip Level	Control	OSA:2A: [Data]	00h	90%	cam	OSA:2A: [Data]	OSA:2A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2A:00&res=1 Step : 1%
	Response	OSA:2A: [Data]	13h	109%				
	Request	QSA:2A						
	Response	OSA:2A: [Data]						
DNR	Control	OSD:3A: [Data]	00	Off	cam	OSD:3A: [Data]	OSD:3A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:3A:01&res=1
	Response	OSD:3A: [Data]	01	Low				
	Request	QSD:3A	02	High				
	Response	OSD:3A: [Data]						

Matrix

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Matrix Type	Control	OSE:31:[Data]	0 1 2 3	NORMAL EBU NTSC USER	cam	OSE:31:[Data]	OSE:31:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:31:0&res=1
	Response	OSE:31:[Data]						
	Request	QSE:31						
	Response	OSE:31:[Data]						
Adaptive Matrix	Control	OSJ:4F:[Data]	0 1	Off On	cam	OSJ:4F:[Data]	OSJ:4F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:4F:0&res=1
	Response	OSJ:4F:[Data]						
	Request	QSJ:4F						
	Response	OSJ:4F:[Data]						
Matrix(R-G)	Control	OSD:A4:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:A4:[Data]	OSD:A4:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A4:80&res=1
	Response	OSD:A4:[Data]						
	Request	QSD:A4						
	Response	OSD:A4:[Data]						
Matrix(R-B)	Control	OSD:A5:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:A5:[Data]	OSD:A5:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A5:80&res=1
	Response	OSD:A5:[Data]						
	Request	QSD:A5						
	Response	OSD:A5:[Data]						
Matrix(G-R)	Control	OSD:A6:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:A6:[Data]	OSD:A6:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A6:80&res=1
	Response	OSD:A6:[Data]						
	Request	QSD:A6						
	Response	OSD:A6:[Data]						
Matrix(G-B)	Control	OSD:A7:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:A7:[Data]	OSD:A7:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A7:80&res=1
	Response	OSD:A7:[Data]						
	Request	QSD:A7						
	Response	OSD:A7:[Data]						
Matrix(B-R)	Control	OSD:A8:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:A8:[Data]	OSD:A8:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A8:80&res=1
	Response	OSD:A8:[Data]						
	Request	QSD:A8						
	Response	OSD:A8:[Data]						
Matrix(B-G)	Control	OSD:A9:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:A9:[Data]	OSD:A9:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:A9:80&res=1
	Response	OSD:A9:[Data]						
	Request	QSD:A9						
	Response	OSD:A9:[Data]						
Color Correction B_Mg Saturation	Control	OSD:80:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:80:[Data]	OSD:80:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:80:80&res=1
	Response	OSD:80:[Data]						
	Request	QSD:80						
	Response	OSD:80:[Data]						
Color Correction B_Mg Phase	Control	OSD:81:[Data]	41h - 80h - BFh	-63 - 0 - 63	cam	OSD:81:[Data]	OSD:81:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:81:80&res=1
	Response	OSD:81:[Data]						
	Request	QSD:81						
	Response	OSD:81:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Color Correction Mg Saturation	Control	OSD:82:[Data]	41h	-63	cam	OSD:82:[Data]	OSD:82:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:82:80&res=1
	Response	OSD:82:[Data]	-	-				
	Request	QSD:82	80h	0				
	Response	OSD:82:[Data]	BFh	63				
Color Correction Mg Phase	Control	OSD:83:[Data]	41h	-63	cam	OSD:83:[Data]	OSD:83:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:83:80&res=1
	Response	OSD:83:[Data]	-	-				
	Request	QSD:83	80h	0				
	Response	OSD:83:[Data]	BFh	63				
Color Correction Mg_R Saturation	Control	OSD:84:[Data]	41h	-63	cam	OSD:84:[Data]	OSD:84:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:84:80&res=1
	Response	OSD:84:[Data]	-	-				
	Request	QSD:84	80h	0				
	Response	OSD:84:[Data]	BFh	63				
Color Correction Mg_R Phase	Control	OSD:85:[Data]	41h	-63	cam	OSD:85:[Data]	OSD:85:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:85:80&res=1
	Response	OSD:85:[Data]	-	-				
	Request	QSD:85	80h	0				
	Response	OSD:85:[Data]	BFh	63				
Color Correction Mg_R_R Saturation	Control	OSD:9A:[Data]	41h	-63	cam	OSD:9A:[Data]	OSD:9A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:9A:80&res=1
	Response	OSD:9A:[Data]	-	-				
	Request	QSD:9A	80h	0				
	Response	OSD:9A:[Data]	BFh	63				
Color Correction Mg_R_R Phase	Control	OSD:9B:[Data]	41h	-63	cam	OSD:9B:[Data]	OSD:9B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:9B:80&res=1
	Response	OSD:9B:[Data]	-	-				
	Request	QSD:9B	80h	0				
	Response	OSD:9B:[Data]	BFh	63				
Color Correction R Saturation	Control	OSD:86:[Data]	41h	-63	cam	OSD:86:[Data]	OSD:86:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:86:80&res=1
	Response	OSD:86:[Data]	-	-				
	Request	QSD:86	80h	0				
	Response	OSD:86:[Data]	BFh	63				
Color Correction R Phase	Control	OSD:87:[Data]	41h	-63	cam	OSD:87:[Data]	OSD:87:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:87:80&res=1
	Response	OSD:87:[Data]	-	-				
	Request	QSD:87	80h	0				
	Response	OSD:87:[Data]	BFh	63				
Color Correction R_R_YI Saturation	Control	OSD:9C:[Data]	41h	-63	cam	OSD:9C:[Data]	OSD:9C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:9C:80&res=1
	Response	OSD:9C:[Data]	-	-				
	Request	QSD:9C	80h	0				
	Response	OSD:9C:[Data]	BFh	63				
Color Correction R_R_YI Phase	Control	OSD:9D:[Data]	41h	-63	cam	OSD:9D:[Data]	OSD:9D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:9D:80&res=1
	Response	OSD:9D:[Data]	-	-				
	Request	QSD:9D	80h	0				
	Response	OSD:9D:[Data]	BFh	63				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Color Correction R_YI Saturation	Control	OSD:88:[Data]	41h	-63	cam	OSD:88:[Data]	OSD:88:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:88:80&res=1
	Response	OSD:88:[Data]	-	-				
	Request	QSD:88	80h	0				
	Response	OSD:88:[Data]	BFh	63				
Color Correction R_YI Phase	Control	OSD:89:[Data]	41h	-63	cam	OSD:89:[Data]	OSD:89:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:89:80&res=1
	Response	OSD:89:[Data]	-	-				
	Request	QSD:89	80h	0				
	Response	OSD:89:[Data]	BFh	63				
Color Correction R_YI_YI Saturation	Control	OSD:9E:[Data]	41h	-63	cam	OSD:9E:[Data]	OSD:9E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:9E:80&res=1
	Response	OSD:9E:[Data]	-	-				
	Request	QSD:9E	80h	0				
	Response	OSD:9E:[Data]	BFh	63				
Color Correction R_YI_YI Phase	Control	OSD:9F:[Data]	41h	-63	cam	OSD:9F:[Data]	OSD:9F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:9F:80&res=1
	Response	OSD:9F:[Data]	-	-				
	Request	QSD:9F	80h	0				
	Response	OSD:9F:[Data]	BFh	63				
Color Correction YI Saturation	Control	OSD:8A:[Data]	41h	-63	cam	OSD:8A:[Data]	OSD:8A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8A:80&res=1
	Response	OSD:8A:[Data]	-	-				
	Request	QSD:8A	80h	0				
	Response	OSD:8A:[Data]	BFh	63				
Color Correction YI Phase	Control	OSD:8B:[Data]	41h	-63	cam	OSD:8B:[Data]	OSD:8B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8B:80&res=1
	Response	OSD:8B:[Data]	-	-				
	Request	QSD:8B	80h	0				
	Response	OSD:8B:[Data]	BFh	63				
Color Correction YI_YI_G Saturation	Control	OSJ:1C:[Data]	41h	-63	cam	OSJ:1C:[Data]	OSJ:1C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:1C:80&res=1
	Response	OSJ:1C:[Data]	-	-				
	Request	QSD:1C	80h	0				
	Response	OSJ:1C:[Data]	BFh	63				
Color Correction YI_YI_G Phase	Control	OSJ:1D:[Data]	41h	-63	cam	OSJ:1D:[Data]	OSJ:1D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:1D:80&res=1
	Response	OSJ:1D:[Data]	-	-				
	Request	QSD:1D	80h	0				
	Response	OSJ:1D:[Data]	BFh	63				
Color Correction YI_G Saturation	Control	OSD:8C:[Data]	41h	-63	cam	OSD:8C:[Data]	OSD:8C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8C:80&res=1
	Response	OSD:8C:[Data]	-	-				
	Request	QSD:8C	80h	0				
	Response	OSD:8C:[Data]	BFh	63				
Color Correction YI_G Phase	Control	OSD:8D:[Data]	41h	-63	cam	OSD:8D:[Data]	OSD:8D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8D:80&res=1
	Response	OSD:8D:[Data]	-	-				
	Request	QSD:8D	80h	0				
	Response	OSD:8D:[Data]	BFh	63				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Color Correction G Saturation	Control	OSD:8E:[Data]	41h	-63	cam	OSD:8E:[Data]	OSD:8E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8E:80&res=1
	Response	OSD:8E:[Data]	-	-				
	Request	QSD:8E	80h	0				
	Response	OSD:8E:[Data]	BFh	63				
Color Correction G Phase	Control	OSD:8F:[Data]	41h	-63	cam	OSD:8F:[Data]	OSD:8F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8F:80&res=1
	Response	OSD:8F:[Data]	-	-				
	Request	QSD:8F	80h	0				
	Response	OSD:8F:[Data]	BFh	63				
Color Correction G_Cy Saturation	Control	OSD:90:[Data]	41h	-63	cam	OSD:90:[Data]	OSD:90:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:90:80&res=1
	Response	OSD:90:[Data]	-	-				
	Request	QSD:90	80h	0				
	Response	OSD:90:[Data]	BFh	63				
Color Correction G_Cy Phase	Control	OSD:91:[Data]	41h	-63	cam	OSD:91:[Data]	OSD:91:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:91:80&res=1
	Response	OSD:91:[Data]	-	-				
	Request	QSD:91	80h	0				
	Response	OSD:91:[Data]	BFh	63				
Color Correction Cy Saturation	Control	OSD:92:[Data]	41h	-63	cam	OSD:92:[Data]	OSD:92:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:92:80&res=1
	Response	OSD:92:[Data]	-	-				
	Request	QSD:92	80h	0				
	Response	OSD:92:[Data]	BFh	63				
Color Correction Cy Phase	Control	OSD:93:[Data]	41h	-63	cam	OSD:93:[Data]	OSD:93:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:93:80&res=1
	Response	OSD:93:[Data]	-	-				
	Request	QSD:93	80h	0				
	Response	OSD:93:[Data]	BFh	63				
Color Correction Cy_B Saturation	Control	OSD:94:[Data]	41h	-63	cam	OSD:94:[Data]	OSD:94:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:94:80&res=1
	Response	OSD:94:[Data]	-	-				
	Request	QSD:94	80h	0				
	Response	OSD:94:[Data]	BFh	63				
Color Correction Cy_B Phase	Control	OSD:95:[Data]	41h	-63	cam	OSD:95:[Data]	OSD:95:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:95:80&res=1
	Response	OSD:95:[Data]	-	-				
	Request	QSD:95	80h	0				
	Response	OSD:95:[Data]	BFh	63				
Color Correction B Saturation	Control	OSD:96:[Data]	41h	-63	cam	OSD:96:[Data]	OSD:96:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:96:80&res=1
	Response	OSD:96:[Data]	-	-				
	Request	QSD:96	80h	0				
	Response	OSD:96:[Data]	BFh	63				
Color Correction B Phase	Control	OSD:97:[Data]	41h	-63	cam	OSD:97:[Data]	OSD:97:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:97:80&res=1
	Response	OSD:97:[Data]	-	-				
	Request	QSD:97	80h	0				
	Response	OSD:97:[Data]	BFh	63				

Lens

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Focus Mode	Control	OAF: [Data]	0 1	Manual Auto	cam	OAF: [Data]	OAF: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OAF:0&res=1
	Response	OAF: [Data]						
	Request	QAF						
	Response	OAF: [Data]						
Focus Mode	Control	#D1 [Data]	0 1	Manual Auto	ptz	d1 [Data]	d1 [Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23D10&res=1
	Response	d1 [Data]						
	Request	#D1						
	Response	d1 [Data]						
Crop AF	Control	OSJ:91: [Data]	0 1	Off On	cam	OSJ:91: [Data]	OSJ:91: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:91:0&res=1
	Response	OSJ:91: [Data]						
	Request	QSJ:91						
	Response	OSJ:91: [Data]						
Digital Zoom	Control	OSE:70: [Data]	0 1	Disable Enable	cam	OSE:70: [Data]	OSE:70: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:70:1&res=1
	Response	OSE:70: [Data]						
	Request	QSE:70						
	Response	OSE:70: [Data]						
i. zoom	Control	OSD:B3: [Data]	0 1	Disable Enable	cam	OSD:B3: [Data]	OSD:B3: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:B3:0&res=1
	Response	OSD:B3: [Data]						
	Request	QSD:B3						
	Response	OSD:B3: [Data]						
Max Digital Zoom	Control	OSE:7A: [Data]	02 - 10	x2 - x10	cam	OSE:7A: [Data]	OSE:7A: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7A:10&res=1
	Response	OSE:7A: [Data]						
	Request	QSE:7A						
	Response	OSE:7A: [Data]						
Digital Extender	Control	ODE: [Data]	0 1	Off On	cam	ODE: [Data]	ODE: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=ODE:1&res=1
	Response	ODE: [Data]						
	Request	QDE						
	Response	ODE: [Data]						
Digital Extender	Control	OSJ:4E: [Data]	0 1 2	Off x1.4 x2.0	cam	OSJ:4E: [Data]	OSJ:4E: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:4E:1&res=1
	Response	OSJ:4E: [Data]						
	Request	QSJ:4E						
	Response	OSJ:4E: [Data]						
Zoom Scale	Control	-	000h - 3E7h	0 - 999	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:3D&res=1
	Response	-						
	Request	QSJ:3D						
	Response	OSJ:3D: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks	
Digital Zoom Magnification	Control	OSE:76:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:76:0100&res=1	
	Response	OSE:76:[Data]	0100	x1.00	cam	OSE:76:[Data]	-	[Data]=100 times the actual magnification factor, expressed as a decimal number.	
	Request	QSE:76	9999	x99.99					
	Response	OSE:76:[Data]							
Control	OIS:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OIS:0&res=1		
OIS	Response	OIS:[Data]	0	OFF	cam	OIS:[Data]	OIS:[Data]		
	Request	QIS	1	O. I. S (STABLE)					
	Response	OIS:[Data]	2	O. I. S (PAN/TILT)					
	Control	#Z[Data]							http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23Z50&res=1
Zoom Speed Control	Response	zS[Data]	01	Wide Max. Speed	ptz	-	-		
	Request	-	49	Wide Min. Speed					
	Response	-	50	Zoom Stop					
	Request	-	51	Tele Min. Speed					
Zoom Position Control	Response	-	99	Tele Max. Speed					
	Control	#AXZ[Data]							http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXZ555&res=1
	Response	axz[Data]	555h	Wide	ptz	-	axz[Data]		
	Request	#AXZ	FFFh	Tele					
Focus Speed Control	Response	axz[Data]							
	Control	#F[Data]							http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23F50&res=1
	Response	fS[Data]	01	Near Max. Speed	ptz	-	-		
	Request	-	49	Near Min. Speed					
Focus Position Control	Response	-	50	Stop					
	Request	-	51	Far Min. Speed					
	Response	-	99	Far Max. Speed					
	Control	#AXF[Data]							http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXF555&res=1
Focus Position Control	Response	axf[Data]	555h	Near	ptz	-	axf[Data]		
	Request	#AXF	FFFh	Far					
	Response	axf[Data]							
	Control	OSE:69:[Data]							http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:69:1&res=1
Push Auto Focus	Response	OSE:69:[Data]	1	Push Auto	cam	-	-		
	Request	-							
	Response	-							
	Control	OSJ:28:[Data1]:[Data2]							http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:28:32:32&res=1
Touctch AF	Response	OSJ:28:[Data1]:[Data2]	[Data1]	[Data1] H Pos.	cam	-	-		
	Request	-	00h	0%					
	Response	-	64h	100%					
	Request	-	[Data2]	[Data2]V Pos.					
Response	-	00h	0%						
Response	-	64h	100%						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Iris Control	Control	#AXI [Data]	555h - FFFh	Iris Close - Iris Open	ptz	-	axi [Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXI555&res=1
	Response	axi [Data]						
	Request	#AXI						
	Response	axi [Data]						
Iris Control	Control	#I [Data]	01 - 99	Iris Close - Iris Open	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23I50&res=1
	Response	iC [Data]						
	Request	#I						
	Response	iC [Data]						
Iris Control	Control	ORV: [Data]	000h - 3FFh	Iris Close - Iris Open	cam	ORV: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=ORV:000&res=1
	Response	ORV: [Data]						
	Request	QRV						
	Response	ORV: [Data]						
Iris Follow	Control	-	00h - FFh	Iris Close - Iris Open	cam	-	OSD:4F: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSD:4F&res=1
	Response	-						
	Request	QSD:4F						
	Response	OSD:4F: [Data]						
Lens Position Information	Control	-	[Data1] 555h - FFFh [Data2] 555h - FFFh [Data3] 555h - FFFh	[Data1]Zoom Position Wide - Tele [Data2]Focus Position Near - Far [Data3]Iris Position Close - Open	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LPI&res=1
	Response	-						
	Request	#LPI						
	Response	IPI [Data1] [Data2] [Data 3]						
Lens Position Information Control	Control	#LPC [Data]	0 1	Off On	ptz	IPC [Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LPC1&res=1
	Response	IPC [Data]						
	Request	#LPC						
	Response	IPC [Data]						
Request Iris F No.	Control	-	0Eh - 1Ch - 38h - A0h - FFh	F1.4 - F2.8 - F5.6 - F16 - CLOSE	cam	-	OIF: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OIF&res=1
	Response	-						
	Request	OIF						
	Response	OIF: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Request Zoom Position	Control	-	555h	Wide	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23GZ&res=1
	Response	-	-	-				
	Request	#GZ	FFFh	Tele				
	Response	gz[Data]	"_""	@Power OFF				
Request Focus Position	Control	-	555h	Near	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23GF&res=1
	Response	-	-	-				
	Request	#GF	FFFh	Far				
	Response	gf[Data]	"_""	@Power OFF				
Request Iris Position	Control	-	[Data1]	[Data1]	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23GI&res=1
	Response	-	555h	Close				
	Request	#G1	FFFh	Open				
	Response	gi[Data1][Data2]	"_""	@Power OFF				
			[Data2]	[Data2]				
			0	Manual Iris				
			1	Auto Iris				

System

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks				
Frequency	Control	OSE:77:[Data]	0	59.94Hz	cam	OSE:77:[Data]	OSE:77:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:77:1&res=1 Reboot after changing Frequency				
	Response	OSE:77:[Data]	1	50.00Hz								
	Request	QSE:77	2	24Hz								
	Response	OSE:77:[Data]	3	23.98Hz								
Format	Control	OSA:87:[Data]			cam	OSA:87:[Data]	OSA:87:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:87:1&res=1 [59.94Hz] 2160/59.94p, 2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz] 2160/50p, 2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p [24.00Hz] 2160/24p, 1080/24p [23.98Hz] 2160/23.98p, 1080/23.98p				
	Response	OSA:87:[Data]	1h 2h 4h 5h 10h 11h 14h 15h 17h 18h 19h 1Ah 1Bh 21h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/59.94p 1080/50p 1080/29.97p 1080/25p 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/23.98p 2160/24p 1080/24p 1080/23.98p								
	Request	QSA:87										
	Response	OSA:87:[Data]										
	Control	OSJ:2E:[Data]							cam	OSJ:2E:[Data]	OSJ:2E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:2E:0&res=1 When Format is 2160/59.94p or 2160/50p Off, Crop(1080) and Crop(720) are available When Format is 2160/29.97p, 2160/25p, 2160/24p or 2160/23.98p Off and Crop(1080) are available
	Response	OSJ:2E:[Data]	0 1 2	Off Crop(1080) Crop(720)								
	Request	QSJ:2E										
	Response	OSJ:2E:[Data]										
Crop Zoom	Control	OSJ:92:[Data]			cam	OSJ:92:[Data]	OSJ:92:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:91:0&res=1				
	Response	OSJ:92:[Data]	0 1	Off On								
	Request	QSJ:92										
	Response	OSJ:92:[Data]										
Shooting Mode	Control	OSI:30:[Data]			cam	OSI:30:[Data]	OSI:30:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:30:0&res=1				
	Response	OSI:30:[Data]	0 1	Normal High Sens.								
	Request	QSI:30										
	Response	OSI:30:[Data]										
Color Setting	Control	OSJ:56:[Data]			cam	OSJ:56:[Data]	OSJ:56:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:56:0&res=1				
	Response	OSJ:56:[Data]	0 1	Normal V-Log								
	Request	QSJ:56										
	Response	OSJ:56:[Data]										
HDR	Control	OSI:2C:[Data]			cam	OSI:2C:[Data]	OSI:2C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:2C:1&res=1				
	Response	OSI:2C:[Data]	0 1	Off On								
	Request	QSI:2C										
	Response	OSI:2C:[Data]										

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Gamut	Control	OSL:02:[Data]	0 1	Normal Wide_G2	cam	OSL:02:[Data]	OSL:02:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:02:1&res=1
	Response	OSL:02:[Data]						
	Request	QSL:02						
	Response	OSL:02:[Data]						
Horizontal Phase	Control	OHP:[Data]	000h - 3FFh	-206 - +49	cam	OHP:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OHP:000&res=1
	Response	OHP:[Data]						
	Request	QHP						
	Response	OHP:[Data]						
Sync Status	Control	-	0 1	NO SYNC SYNC	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSL:C7&res=1
	Response	-						
	Request	QSL:C7						
	Response	OSL:C7:[Data]						
Tracking data output Serial Out	Control	OSJ:54:[Data]	0 1	Off On	cam	OSJ:54:[Data]	OSJ:54:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:54:0&res=1
	Response	OSJ:54:[Data]						
	Request	QSJ:54						
	Response	OSJ:54:[Data]						
Tracking data output IP Out	Control	OSJ:55:[Data]	0 1	Off On	cam	OSJ:55:[Data]	OSJ:55:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:55:0&res=1
	Response	OSJ:55:[Data]						
	Request	QSJ:55						
	Response	OSJ:55:[Data]						
Tracking data output Invert P/T axis	Control	OSJ:C1:[Data]	0 1	Off On	cam	OSJ:C1:[Data]	OSJ:C1:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:C1:0&res=1
	Response	OSJ:C1:[Data]						
	Request	QSJ:C1						
	Response	OSJ:C1:[Data]						
Tracking data output Camera ID	Control	OSJ:F4:[Data]	0x00 - 0xFF	0x00 - 0xFF	cam	OSJ:F4:[Data]	OSJ:F4:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:F4:00&res=1
	Response	OSJ:F4:[Data]						
	Request	QSJ:F4						
	Response	OSJ:F4:[Data]						
Wireless Control	Control	#WLC[Data1]	0 1	Disable Enable	ptz	wLC[Data1]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23WLC1&res=1
	Response	wLC[Data1]						
	Request	#WLC						
	Response	wLC[Data1]						
Wireless ID	Control	#RID[Data]	0 1 2 3	CAM1 CAM2 CAM3 CAM4	ptz	rID[Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RID0&res=1
	Response	rID[Data]						
	Request	#RID						
	Response	rID[Data]						
Fan1	Control	#FAN[Data]	0 1 2 3	Auto High Mid Low	ptz	fAN[Data]	fAN[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23FAN0&res=1 FAN (HEAD)
	Response	fAN[Data]						
	Request	#FAN						
	Response	fAN[Data]						
Fan2	Control	#FA2[Data]	0 1 2 3	Auto High Mid Low	ptz	fA2[Data]	fA2[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23FA20&res=1 FAN (BOTTOM)
	Response	fA2[Data]						
	Request	#FA2						
	Response	fA2[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Fan1 Status	Control	-	0 1 2	Off On Error	ptz	fS1 [Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23FS1&res=1
	Response	-						
	Request	#FS1						
	Response	fS1 [Data]						
Fan2 Status	Control	-	0 1 2	Off On Error	ptz	fS2 [Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23FS2&res=1
	Response	-						
	Request	#FS2						
	Response	fS2 [Data]						
AUTO TRACKING MODE	Control	OSL:B6: [Data]	0 1	OFF ON	cam	OSL:B6: [Data]	OSL:B6: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:B6:1&res=1
	Response	OSL:B6: [Data]						
	Request	QSL:B6						
	Response	OSL:B6: [Data]						
ANGLE	Control	OSL:B7: [Data]	0 1 2	OFF FULL BODY UPPER BODY	cam	OSL:B7: [Data]	OSL:B7: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:B7:1&res=1
	Response	OSL:B7: [Data]						
	Request	QSL:B7						
	Response	OSL:B7: [Data]						
TARGET MARKER	Control	OSL:B8: [Data]	0 1	OFF ON	cam	OSL:B8: [Data]	OSL:B8: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:B8:1&res=1
	Response	OSL:B8: [Data]						
	Request	QSL:B8						
	Response	OSL:B8: [Data]						
TRACKING STATUS	Control	-	0 1 2	NOT TRACKING TRACKING LOST	cam	OSL:BB: [Data]	OSL:BB: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSL:BB&res=1
	Response	-						
	Request	QSL:BB						
	Response	OSL:BB: [Data]						
TRACKING START/STOP	Control	OSL:BC: [Data]	0 1	STOP START	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:BC:1&res=1
	Response	OSL:BC: [Data]						
	Request	-						
	Response	-						
TRACKING AUTO START	Control	OSL:BD: [Data]	0 1	DISABLE ENABLE	cam	OSL:BD: [Data]	OSL:BD: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:BD:1&res=1
	Response	OSL:BD: [Data]						
	Request	QSL:BD						
	Response	OSL:BD: [Data]						
MASK TOP	Control	OSL:BE: [Data]	000h - 438h	0 (No Mask) - 1080	cam	OSL:BE: [Data]	OSL:BE:0x [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:BE:100&res=1
	Response	OSL:BE: [Data]						
	Request	QSL:BE						
	Response	OSL:BE: [Data]						
MASK BOTTOM	Control	OSL:BF: [Data]	000h - 438h	0 (No Mask) - 1080	cam	OSL:BF: [Data]	OSL:BF:0x [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:BF:100&res=1
	Response	OSL:BF: [Data]						
	Request	QSL:BF						
	Response	OSL:BF: [Data]						
MASK LEFT	Control	OSL:C0: [Data]	000h - 780h	0 (No Mask) - 1920	cam	OSL:C0: [Data]	OSL:C0:0x [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:C0:100&res=1
	Response	OSL:C0: [Data]						
	Request	QSL:C0						
	Response	OSL:C0: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
MASK RIGHT	Control	OSL:C1:[Data]	000h - 780h	0 (No Mask) - 1920	cam	OSL:C1:[Data]	OSL:C1:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:C1:100&res=1
	Response	OSL:C1:[Data]						
	Request	QSL:C1						
	Response	OSL:C1:[Data]						
HOME POSITION	Control	OSL:C2:[Data]	0 1 2 3 4	PRESET1 PRESET2 PRESET3 NONE WIDE	cam	OSL:C2:[Data]	OSL:C2:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:C2:1&res=1
	Response	OSL:C2:[Data]						
	Request	QSL:C2						
	Response	OSL:C2:[Data]						

Output

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
12G SDI Output Format	Control	OSJ:1E: [Data]	1h 2h 4h	720/59. 94p 720/50p 1080/59. 94i	cam	OSJ:1E: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:1E:1&res=1 [59. 94Hz] 2160/59. 94p, 2160/29. 97p, 1080/59. 94p, 1080/59. 94i, 1080/29. 97p, 720/59. 94p [50Hz] 2160/50p, 2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p [24. 00Hz] 2160/24p, 1080/24p [23. 98Hz] 2160/23. 98p, 1080/23. 98p
	Response	OSJ:1E: [Data]	5h 10h 11h 14h 15h	1080/50i 1080/59. 94p 1080/50p 1080/29. 97p 1080/25p				
	Request	QSJ:1E	17h 18h 19h 1Ah 1Bh 21h 22h 23h	2160/29. 97p 2160/25p 2160/59. 94p 2160/50p 2160/23. 98p 2160/24p 1080/24p 1080/23. 98p				
	Response	OSJ:1E: [Data]						
12G SDI OUT/SFP+ HDR Output Select	Control	-	0 1 2	SDR HDR (2020) HDR (709)	cam	OSJ:1F: [Data]	OSJ:1F: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:1F&res=1
	Response	-						
	Request	QSJ:1F						
	Response	OSJ:1F: [Data]						
12G SDI OUT/SFP+ V-Log Output Select	Control	-	0 1	V-LOG V709	cam	OSJ:57: [Data]	OSJ:57: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:57&res=1
	Response	-						
	Request	QSJ:57						
	Response	OSJ:57: [Data]						
12G SDI 3G SDI Out	Control	OSJ:20: [Data]	0 1	Level A Level B	cam	OSJ:20: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:20:0&res=1
	Response	OSJ:20: [Data]						
	Request	QSJ:20						
	Response	OSJ:20: [Data]						
3G SDI OUT1 Output Format	Control	OSJ:21: [Data]	1h 2h 4h 5h 10h 11h 14h 15h 22h 23h	720/59. 94p 720/50p 1080/59. 94i 1080/50i 1080/59. 94p 1080/50p 1080/29. 97p 1080/25p 1080/24p 1080/23. 98p	cam	OSJ:21: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:21:1&res=1 [59. 94Hz] 1080/59. 94p, 1080/59. 94i, 1080/29. 97p, 720/59. 94p [50Hz] 1080/50p, 1080/50i, 1080/25p, 720/50p [24. 00Hz] 1080/24p [23. 98Hz] 1080/23. 98p
	Response	OSJ:21: [Data]						
	Request	QSJ:21						
	Response	OSJ:21: [Data]						
3G SDI OUT1 HDR Output Select	Control	OSJ:22: [Data]	0 1 2	SDR HDR (2020) HDR (709)	cam	OSJ:22: [Data]	OSJ:22: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:22&res=1
	Response	OSJ:22: [Data]						
	Request	QSJ:22						
	Response	OSJ:22: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
3G SDI OUT1 V-Log Output Select	Control	OSJ:58: [Data]	0 1	V-LOG V709	cam	OSJ:58: [Data]	OSJ:58: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:58&res=1
	Response	OSJ:58: [Data]						
	Request	QSJ:58						
	Response	OSJ:58: [Data]						
3G SDI OUT1 3G SDI Out	Control	OSI:29: [Data]	0 1	Level A Level B	cam	OSI:29: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:29:0&res=1
	Response	OSI:29: [Data]						
	Request	QSI:29						
	Response	OSI:29: [Data]						
3G SDI OUT2 Output Format	Control	OSJ:23: [Data]	01h 02h 04h 05h 10h 11h 14h 15h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/59.94p 1080/50p 1080/29.97p 1080/25p 1080/24p 1080/23.98p	cam	OSJ:23: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:23:1&res=1
	Response	OSJ:23: [Data]						
	Request	QSJ:23						
	Response	OSJ:23: [Data]						
3G SDI OUT2 HDR Output Select	Control	-	0 1 2	SDR HDR (2020) HDR (709)	cam	OSJ:24: [Data]	OSJ:24: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:24&res=1
	Response	-						
	Request	QSJ:24						
	Response	OSJ:24: [Data]						
3G SDI OUT2 V-Log Output Select	Control	-	0 1	V-LOG V709	cam	OSJ:59: [Data]	OSJ:59: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:59&res=1
	Response	-						
	Request	QSJ:59						
	Response	OSJ:59: [Data]						
3G SDI OUT2 3G SDI Out	Control	OSL:1A: [Data]	0 1	Level A Level B	cam	OSL:1A: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:1A:1&res=1
	Response	OSL:1A: [Data]						
	Request	QSL:1A						
	Response	OSL:1A: [Data]						
HDMI Output Format	Control	OSJ:25: [Data]	1h 2h 4h 5h 10h 11h 14h 15h 17h 18h 19h 1Ah 1Bh 21h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/59.94p 1080/50p 1080/29.97p 1080/25p 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/23.98p 2160/24p 1080/24p 1080/23.98p	cam	OSJ:25: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:25:1&res=1
	Response	OSJ:25: [Data]						
	Request	QSJ:25						
	Response	OSJ:25: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
HDMI HDR Output Select	Control	-						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:26&res=1
	Response	-	0	SDR		OSJ:26: [Data]	OSJ:26: [Data]	
	Request	QSJ:26	1	HDR (2020)	cam			
	Response	OSJ:26: [Data]	2	HDR (709)				
HDMI V-Log Output Select	Control	-						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:5A&res=1
	Response	-	0	V-LOG		OSJ:5A: [Data]	OSJ:5A: [Data]	
	Request	QSJ:5A	1	V709	cam			
	Response	OSJ:5A: [Data]						
HDMI Output Source	Control	OSL:EA: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:EA:2&res=1
	Response	OSL:EA: [Data]	0	12G SDI/Opt		OSL:EA: [Data]	-	
	Request	QSL:EA	1	3G SD11	cam			
	Response	OSL:EA: [Data]	2	3G SD12				
HDMI Video Sampling	Control	OSE:68: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:68:2&res=1
	Response	OSE:68: [Data]	2	YPbPr (422)		OSE:68: [Data]	-	
	Request	QSE:68	4	YPbPr (420)	cam			
	Response	OSE:68: [Data]						
Color Bar	Control	DCB: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=DCB:1&res=1
	Response	DCB: [Data]	0	Camera		DCB: [Data]	OBR: [Data]	
	Request	QBR	1	Colorbar	cam			
	Response	OBR: [Data]						
Color Bar Type	Control	OSD:BA: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:BA:0&res=1
	Response	OSD:BA: [Data]	0	Type2 (Full Bar/EBU)		OSD:BA: [Data]	-	
	Request	QSD:BA	1	Type1 (SMPTE)	cam			
	Response	OSD:BA: [Data]						
Color Bar Tone	Control	OSJ:27: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:27:0&res=1
	Response	OSJ:27: [Data]	0	Off		OSJ:27: [Data]	-	
	Request	QSJ:27	1	Low	cam			
	Response	OSJ:27: [Data]	2	Normal				
Audio	Control	OSA:D0: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D0:1&res=1
	Response	OSA:D0: [Data]	0	Off		OSA:D0: [Data]	-	
	Request	QSA:D0	1	On	cam			
	Response	OSA:D0: [Data]						
Audio Input Type	Control	OSA:D1: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D1:0&res=1
	Response	OSA:D1: [Data]	0	Mic		OSA:D1: [Data]	-	
	Request	QSA:D1	3	Line	cam			
	Response	OSA:D1: [Data]						
Audio Volume Level	Control	OSA:D5: [Data1]: [Data2]	[Data1]	[Data1]				http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D5:0:5C&res=1
	Response	OSA:D5: [Data1]: [Data2]	0	CH1		OSA:D5: [Data1]: [Data2]	-	
	Request	QSA:D5: [Data1]	[Data2]	[Data2]	cam			
	Response	OSA:D5: [Data1]: [Data2]	5Ch	-36dB				
			-	-				
			80h	0dB				
			-	-				
			8Ch	12dB				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Audio Plugin Power	Control	OSA:D2: [Data]	0 1	Off On	cam	OSA:D2: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D2:0&res=1
	Response	OSA:D2: [Data]						
	Request	QSA:D2						
	Response	OSA:D2: [Data]						
OSD Mix	Control	OSE:7B: [Data]	00h 01h 02h 10h 20h 40h 80h	00h:OSD Mix Off 01h:3G SDI1 On 02h:HDMI On 10h:IP/NDI HX On 20h:12G SDI On/Optical 40h:3G SDI2 On 80h:NDI On *bit0:3G SDI1, bit1:HDMI, bit4: IP/NDI HX bit5:12G SDI, bit6:3G SDI2, bit7:NDI	cam	OSE:7B: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7B:61&res=1
	Response	OSE:7B: [Data]						
	Request	QSE:7B						
	Response	OSE:7B: [Data]						
Level Gauge Request Inclination	Control	-	[Data1] 1Dh - 80h - E3h [Data2] 1Dh - 80h - E3h [Data3] 1Dh - 80h - E3h [Data4] 1Dh - 80h - E3h	[Data1] -9.9° (Left Down) - 0.0° - 9.9° (Left Up) [Data2] -9.9° (Right Down) - 0.0° - 9.9° (Right Up) [Data3] -9.9° (Front Down) - 0.0° - 9.9° (Front Up) [Data4] -9.9° (Back Down) - 0.0° - 9.9° (Back Up)	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSL:AF&res=1
	Response	-						
	Request	QSL:AF						
	Response	QSL:AF: [Data1]: [Data2] : [Data3]: [Data4]						
OSD Off With TALLY	Control	OSE:75: [Data]	0 1	Off On	cam	OSE:75: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:75:1&res=1
	Response	OSE:75: [Data]						
	Request	QSE:75						
	Response	OSE:75: [Data]						
OSD Status	Control	OSA:88: [Data]	0 1	Off On	cam	OSA:88: [Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:88:0&res=1
	Response	OSA:88: [Data]						
	Request	QSA:88						
	Response	OSA:88: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
TALLY Enable	Control	#TAE[Data]	0 1	Disable Enable	ptz	tAE[Data]	tAE[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23TAE1&res=1
	Response	tAE[Data]						
	Request	#TAE						
	Response	tAE[Data]						
Tally LED Limit R	Control	OSJ:D9:[Data]	0 1	Unlimited Limited	cam	OSJ:D9:[Data]	OSJ:D9:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:D9:0&res=1
	Response	OSJ:D9:[Data]						
	Request	QSJ:D9						
	Response	OSJ:D9:[Data]						
Tally LED Limit G	Control	OSJ:DA:[Data]	0 1	Unlimited Limited	cam	OSJ:DA:[Data]	OSJ:DA:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:DA:0&res=1
	Response	OSJ:DA:[Data]						
	Request	QSJ:DA						
	Response	OSJ:DA:[Data]						
Tally LED Limit Y	Control	OSL:05:[Data]	0 1	Unlimited Limited	cam	OSL:05:[Data]	OSL:05:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:05:1&res=1
	Response	OSL:05:[Data]						
	Request	QSL:05						
	Response	OSL:05:[Data]						
Tally Brightness	Control	OSA:D3:[Data]	0 1 2	Low Mid High	cam	OSA:D3:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D3:0&res=1
	Response	OSA:D3:[Data]						
	Request	QSA:D3						
	Response	OSA:D3:[Data]						
R-Tally Control	Control	TLR:[Data]	0 1	Off On	cam	TLR:[Data]	TLR:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=TLR:1&res=1
	Response	TLR:[Data]						
	Request	QLR						
	Response	OLR:[Data]						
R-Tally Control	Control	#DA[Data]	0 1	Off On	ptz	dA[Data]	dA[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23DA1&res=1
	Response	dA[Data]						
	Request	#DA						
	Response	dA[Data]						
G-Tally Control	Control	TLG:[Data]	0 1	Off On	cam	TLG:[Data]	TLG:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=TLG:1&res=1
	Response	TLG:[Data]						
	Request	QLG						
	Response	OLG:[Data]						
Y-Tally Control	Control	TLY:[Data]	0 1	OFF ON	cam	TLY:[Data]	TLY:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=TLY:1&res=1
	Response	TLY:[Data]						
	Request	QLY						
	Response	OLY:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Tally Information	Control	-	[Data1] 0 1 [Data2] 0 1	[Data1] R-Tally Off R-Tally On [Data2] Wired R-Tally In Off Wired R-Tally In On	ptz	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23TAA&res=1
	Response	-	[Data3] 0 1 [Data4] 0 1 [Data5] 0 1 [Data6] 0 1	[Data3] Command R-Tally In Off Command R-Tally In On [Data4] G-Tally Off G-Tally On [Data5] Wired G-Tally In Off Wired G-Tally In On [Data6] Command G-Tally In Off Command G-Tally In On				
	Request	#TAA	[Data7] 0 1 [Data8] 0 1 [Data9] 0 1	[Data7] Y-Tally Off Y-Tally On [Data8] Wired Y-Tally In Off Wired Y-Tally In On [Data9] Command Y-Tally In Off Command Y-Tally In On				
	Response	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]	[Data9] 0 1	[Data9] Command Y-Tally In Off Command Y-Tally In On				
Status Lamp	Control	#LMP[Data]	0 1	Disable Enable	ptz	IMP[Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LMP0&res=1
	Response	IMP[Data]						
	Request	#LMP						
	Response	IMP[Data]						
External Output1	Control	OSJ:41:[Data]	0 1 2 3	Off R-Tally G-Tally Y-Tally	cam	OSJ:41:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:41:0&res=1
	Response	OSJ:41:[Data]						
	Request	QSJ:41						
	Response	OSJ:41:[Data]						
External Output2	Control	OSJ:42:[Data]	0 1 2 3	Off R-Tally G-Tally Y-Tally	cam	OSJ:42:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:42:0&res=1
	Response	OSJ:42:[Data]						
	Request	QSJ:42						
	Response	OSJ:42:[Data]						

UHD Crop

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Crop 3G SD11 Out	Control	OSI:32:[Data]	0 1	Full Crop	cam	OSI:32:[Data]	OSI:32:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:32:0&res=1
	Response	OSI:32:[Data]						
	Request	QSI:32						
	Response	OSI:32:[Data]						
Crop Marker	Control	OSI:1A:[Data1]	0 1 2 3 4 5 6 7	OFF YL G MG YL+G YL+MG G+MG YL+G+MG	cam	OSI:1A:[Data1]	OSI:1A:[Data1]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:1A:0&res=1
	Response	OSI:1A:[Data1]						
	Request	QSI:1A						
	Response	OSI:1A:[Data1]						
Crop out	Control	OSI:16:[Data1]	1 2 3	YL G MG	cam	OSI:16:[Data1]	OSI:16:[Data1]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:16:1&res=1
	Response	OSI:16:[Data1]						
	Request	QSI:16						
	Response	OSI:16:[Data1]						
Crop Adjust	Control	OSI:17:[Data1]	1 2 3	YL G MG	cam	OSI:17:[Data1]	OSI:17:[Data1]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:17:1&res=1
	Response	OSI:17:[Data1]						
	Request	QSI:17						
	Response	OSI:17:[Data1]						
Crop H Position	Control	OSJ:AF:[Data]	000h - AB6h	0 - 2742	cam	OSJ:AF:[Data]	OSJ:AF:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:AF:000&res=1 [Data]:Even numbers only
	Response	OSJ:AF:[Data]						
	Request	QSJ:AF						
	Response	OSJ:AF:[Data]						
Crop H Position(YI)	Control	OSJ:2F:[Data]	000h - AB6h	0 - 2742	cam	OSJ:2F:[Data]	OSJ:2F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:2F:000&res=1 [Data]:Even numbers only
	Response	OSJ:2F:[Data]						
	Request	QSJ:2F						
	Response	OSJ:2F:[Data]						
Crop H Position(G)	Control	OSJ:31:[Data]	000h - AB6h	0 - 2742	cam	OSJ:31:[Data]	OSJ:31:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:31:000&res=1 [Data]:Even numbers only
	Response	OSJ:31:[Data]						
	Request	QSJ:31						
	Response	OSJ:31:[Data]						
Crop H Position(Mg)	Control	OSJ:33:[Data]	000h - AB6h	0 - 2742	cam	OSJ:33:[Data]	OSJ:33:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:33:000&res=1 [Data]:Even numbers only
	Response	OSJ:33:[Data]						
	Request	QSJ:33						
	Response	OSJ:33:[Data]						
Crop V Position	Control	OSJ:B0:[Data]	000h - 607h	0 - 1543	cam	OSJ:B0:[Data]	OSJ:B0:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:B0:000&res=1
	Response	OSJ:B0:[Data]						
	Request	QSJ:B0						
	Response	OSJ:B0:[Data]						
Crop V Position(YI)	Control	OSJ:30:[Data]	000h - 607h	0 - 1543	cam	OSJ:30:[Data]	OSJ:30:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:30:000&res=1
	Response	OSJ:30:[Data]						
	Request	QSJ:30						
	Response	OSJ:30:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Crop V Position (G)	Control	OSJ:32:[Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:32:000&res=1
	Response	OSJ:32:[Data]	000h	0	cam	OSJ:32:[Data]	OSJ:32:0x[Data]	
	Request	QSJ:32	-	1543				
	Response	OSJ:32:[Data]	607h					
Crop V Position (Mg)	Control	OSJ:34:[Data]						
	Response	OSJ:34:[Data]	000h	0	cam	OSJ:34:[Data]	OSJ:34:0x[Data]	
	Request	QSJ:34	-	1543				
	Response	OSJ:34:[Data]	607h					
Get Crop H/V Position (YI, G, Mg)	Control	OSJ:60:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]	[Data1] 000h	[Data1] H POS (YL) 0				cam
	Response	OSJ:60:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]	- AB6h [Data2] 000h	2742 [Data2] V POS (YL) 0				
	Request	QSJ:60	- 607h [Data3] 000h	1543 [Data3] H POS (G) 0				
	Response	OSJ:60:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]	- AB6h [Data4] 000h	2742 [Data4] V POS (G) 0				
Crop H/V Position Speed Control	Control	OSI:15:[Data1]:[Data2]	[Data1] 01	[Data1] Left Max. Speed	cam			http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:15:50&res=1
	Response	OSI:15:[Data1]:[Data2]	- 50	- Stop				
	Request	---	- 99	Right Max. Speed				
	Response	---	[Data2] 01	[Data2] Down Max. Speed				
			- 50	- Stop				
			- 99	UP Max. Speed				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Crop H/V Position Speed Control (YI)	Control	OSJ:5D:[Data1]:[Data2]	[Data1] 01 - 50 - 99	[Data1] Left Max. Speed - Stop - Right Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:5D:50:50&res=1
	Response	OSJ:5D:[Data1]:[Data2]						
	Request	---	[Data2] 01 - 50 - 99	[Data2] Down Max. Speed - Stop - UP Max. Speed				
	Response	---						
Crop H/V Position Speed Control (G)	Control	OSJ:5E:[Data1]:[Data2]	[Data1] 01 - 50 - 99	[Data1] Left Max. Speed - Stop - Right Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:5E:50:50&res=1
	Response	OSJ:5E:[Data1]:[Data2]						
	Request	---	[Data2] 01 - 50 - 99	[Data2] Down Max. Speed - Stop - UP Max. Speed				
	Response	---						
Crop H/V Position Speed Control (Mg)	Control	OSJ:5F:[Data1]:[Data2]	[Data1] 01 - 50 - 99	[Data1] Left Max. Speed - Stop - Right Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:5F:50:50&res=1
	Response	OSJ:5F:[Data1]:[Data2]						
	Request	---	[Data2] 01 - 50 - 99	[Data2] Down Max. Speed - Stop - UP Max. Speed				
	Response	---						
Crop H/V Position Speed Control (YI/G/Mg)	Control	OSJ:A0:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]	[Data1] 01 50 99 [Data2] 01 50 99	[Data1] (YL) Left Max. Speed Stop Right Max. Speed [Data2] (YL) Down Max. Speed Stop UP Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A0:50:50:50:50:50&res=1
	Response	OSJ:A0:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]	[Data3] 01 50 99	[Data3] (G) Left Max. Speed Stop Right Max. Speed				
	Request	---	[Data4] 01 50 99 [Data5] 01 50	[Data4] (G) Down Max. Speed Stop UP Max. Speed [Data5] (MG) Left Max. Speed Stop				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
	Response	---	99 [Data6] 01 50 99	Right Max. Speed [Data6] (MG) Down Max. Speed Stop UP Max. Speed				
Crop Zoom Ratio	Control	OSJ:B1:[Data]	02EE0h - 088B8h	120.00% - 350.00%	cam	OSJ:B1:[Data]	OSJ:B1:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:B1:02EE0&res=1
	Response	OSJ:B1:[Data]						
	Request	QSJ:B1						
	Response	OSJ:B1:[Data]						
Crop Zoom Ratio (Y1)	Control	OSJ:98:[Data]	02EE0h - 088B8h	120.00% - 350.00%	cam	OSJ:98:[Data]	OSJ:98:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:98:02EE0&res=1
	Response	OSJ:98:[Data]						
	Request	QSJ:98						
	Response	OSJ:98:[Data]						
Crop Zoom Ratio (G)	Control	OSJ:99:[Data]	02EE0h - 088B8h	120.00% - 350.00%	cam	OSJ:99:[Data]	OSJ:99:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:99:02EE0&res=1
	Response	OSJ:99:[Data]						
	Request	QSJ:99						
	Response	OSJ:99:[Data]						
Crop Zoom Ratio (Mg)	Control	OSJ:9A:[Data]	02EE0h - 088B8h	120.00% - 350.00%	cam	OSJ:9A:[Data]	OSJ:9A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:9A:02EE0&res=1
	Response	OSJ:9A:[Data]						
	Request	QSJ:9A						
	Response	OSJ:9A:[Data]						
Crop Zoom Ratio (YL/G/MG)	Control	OSJ:9B:[Data1]:[Data2]:[Data3]	[Data1] 02EE0h - 088B8h [Data2] 02EE0h - 088B8h [Data3] 02EE0h - 088B8h	[Data1] Zoom Ratio (YL) 120.00% - 350.00% [Data2] Zoom Ratio (G) 120.00% - 350.00% [Data3] Zoom Ratio (MG) 120.00% - 350.00%	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:9B:02EE0:02EE0:02EE0&res=1
	Response	OSJ:9B:[Data1]:[Data2]:[Data3]						
	Request	QSJ:9B						
	Response	OSJ:9B:[Data1]:[Data2]:[Data3]						
Crop Zoom Ratio Speed Control	Control	OSJ:9C:[Data]	01 - 49 50 51 - 99	Wide Max. Speed - Wide Min. Speed Stop Tele Min. Speed - Tele Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:9C:50&res=1
	Response	OSJ:9C:[Data]						
	Request	---						
	Response	---						
Crop Zoom Ratio Speed Control (Y1)	Control	OSJ:9D:[Data]	01 - 49 50 51 - 99	Wide Max. Speed - Wide Min. Speed Stop Tele Min. Speed - Tele Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:9D:50&res=1
	Response	OSJ:9D:[Data]						
	Request	---						
	Response	---						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Crop Zoom Ratio Speed Control (G)	Control	OSJ:9E:[Data]	01	Wide Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:9E:50&res=1
	Response	OSJ:9E:[Data]	-	Wide Min. Speed				
	Request	---	49	Stop				
	Response	---	50	Tele Min. Speed				
Crop Zoom Ratio Speed Control (Mg)	Control	OSJ:9F:[Data]	01	Wide Max. Speed	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:9F:50&res=1
	Response	OSJ:9F:[Data]	-	Wide Min. Speed				
	Request	---	49	Stop				
	Response	---	50	Tele Min. Speed				
Crop Zoom Ratio Speed Control (YI/G/Mg)	Control	OSJ:A1:[Data1]:[Data2]:[Data3]	[Data1]	[Data1] (YL)	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A1:50:50:50&res=1
	Response	OSJ:A1:[Data1]:[Data2]:[Data3]	01	Wide Max. Speed				
			49	Wide Min. Speed				
	Request	---	50	Stop				
			51	Tele Min. Speed				
	Response	---	99	Tele Max. Speed				
			[Data2]	[Data2] (G)				
	Request	---	01	Wide Max. Speed				
49			Wide Min. Speed					
Response	---	50	Stop					
		51	Tele Min. Speed					
Request	---	99	Tele Max. Speed					
		[Data3]	[Data3] (MG)					
Response	---	01	Wide Max. Speed					
		49	Wide Min. Speed					
Request	---	50	Stop					
		51	Tele Min. Speed					
Response	---	99	Tele Max. Speed					

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Crop Position / Crop Zoom Position Speed Control (YL/G/MG)	Control	OSJ:C2:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]	[Data1] 01 - 50 - 99	[Data1]YL H Crop Position Left Max. Spd - Stop - Right Max. Spd	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:C2:01:01:50:50:99:99:30:50:70&res=1
	Response	OSJ:C2:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]	[Data2] 01 - 50 - 99	[Data2]YL V Crop Position Down Max. Spd - Stop - UP Max. Spd				
	Request	-	[Data3] 01 - 50 - 99	[Data3]G H Crop Position Left Max. Spd - Stop - Right Max. Spd				
	Response	-	[Data4] 01 - 50 - 99	[Data4]G V Crop Position Down Max. Spd - Stop - UP Max. Spd				
	Request	-	[Data5] 01 - 50 - 99	[Data5]MG H Crop Position Left Max. Spd - Stop - Right Max. Spd				
Request Crop Position / Crop Zoom Position	Control	-	[Data6] 01 - 50 - 99	[Data6]MG V Crop Position Down Max. Spd - Stop - UP Max. Spd	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:C3&res=1
	Response	-	[Data7] 01 - 50 - 99	[Data7] YL Crop Zoom Position Wide Max. Spd - Stop - Tele Max. Spd				
	Request	QSJ:C3	[Data8] 01 - 50 - 99	[Data8] G Crop Zoom Position Wide Max. Spd - Stop - Tele Max. Spd				
	Response	OSJ:C3:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]	[Data9] 01 - 50 - 99	[Data9]MG Crop Zoom Position Wide Max. Spd - Stop - Tele Max. Spd				
	Control	-	[Data1] 000h - AB6h	[Data1] H POS (YL) 0 - 2742				
Response	-	[Data2] 000h - 607h	[Data2] V POS (YL) 0 - 1543					
Request	QSJ:C3	[Data3] 000h - AB6h	[Data3] H POS (G) 0 - 2742					
Response	OSJ:C3:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]	[Data4] 000h - 607h	[Data4] V POS (G) 0 - 1543					
Request	QSJ:C3	[Data5] 000h - AB6h	[Data5] H POS (MG) 0 - 2742					
Response	OSJ:C3:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]	[Data6] 000h - 607h	[Data6] V POS (MG) 0 - 1543					
Request	QSJ:C3	[Data7] 02EE0h - 088B8h	[Data7] Zoom Ratio (YL) 120.00% - 350.00%					
Response	OSJ:C3:[Data1]:[Data2]:[Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]	[Data8] 02EE0h - 088B8h	[Data8] Zoom Ratio (G) 120.00% - 350.00%					
Request	QSJ:C3	[Data9] 02EE0h - 088B8h	[Data9] Zoom Ratio (MG) 120.00% - 350.00%					

Pan/Tilt

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Install Positon	Control	#INS[Data]	0 1	Desktop Hanging	ptz	iNS[Data]	iNS[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23INS1&res=1
	Response	#INS[Data]						
	Request	#INS						
	Response	iNS[Data]						
Smart Picture Flip	Control	#SPF[Data]	0 1	Off Auto	ptz	sPF[Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23SPF1&res=1
	Response	sPF[Data]						
	Request	#SPF						
	Response	sPF[Data]						
Flip Status	Control	-	0 1	Normal Flip	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QFS&res=1
	Response	-						
	Request	QFS						
	Response	OFS:[Data]						
Flip Detect Angle	Control	#FDA[Data]	3Ch - 78h	60deg - 120deg	ptz	fDA[Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23SPF5A&res=1
	Response	fDA[Data]						
	Request	#FDA						
	Response	fDA[Data]						
P/T Speed Mode	Control	OSJ:2D:[Data]	0 1 2	Normal (60deg/s) Fast1 (90deg/s) Fast2 (180deg/s)	cam	OSJ:2D:[Data]	OSJ:2D:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:2D:0&res=1
	Response	OSJ:2D:[Data]						
	Request	QSJ:2D						
	Response	OSJ:2D:[Data]						
P/T Acceleration	Control	OSJ:A2:[Data]	0 1	Manual Auto	cam	OSJ:A2:[Data]	OSJ:A2:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A2:0&res=1
	Response	OSJ:A2:[Data]						
	Request	QSJ:A2						
	Response	OSJ:A2:[Data]						
P/T Rise S-Curve	Control	OSJ:A3:[Data]	00h - 1E	0 - 30	cam	OSJ:A3:[Data]	OSJ:A3:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A3:00&res=1
	Response	OSJ:A3:[Data]						
	Request	QSJ:A3						
	Response	OSJ:A3:[Data]						
P/T Fall S-Curve	Control	OSJ:A4:[Data]	00h - 1E	0 - 30	cam	OSJ:A4:[Data]	OSJ:A4:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A4:00&res=1
	Response	OSJ:A4:[Data]						
	Request	QSJ:A4						
	Response	OSJ:A4:[Data]						
P/T Rise Acceleration	Control	OSJ:A5:[Data]	01h - FFh	1 - 255	cam	OSJ:A5:[Data]	OSJ:A5:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A5:01&res=1
	Response	OSJ:A5:[Data]						
	Request	QSJ:A5						
	Response	OSJ:A5:[Data]						
P/T Fall Acceleration	Control	OSJ:A6:[Data]	01h - FFh	1 - 255	cam	OSJ:A6:[Data]	OSJ:A6:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A6:01&res=1
	Response	OSJ:A6:[Data]						
	Request	QSJ:A6						
	Response	OSJ:A6:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Speed With Zoom Position	Control	#SWZ[Data]	0 1	Off On	ptz	sWZ[Data]	sWZ[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23SWZ1&res=1
	Response	sWZ[Data]						
	Request	#SWZ						
	Response	sWZ[Data]						
Focus Adjust With PTZ.	Control	OAZ:[Data]	0 1	Off On	cam	OAZ:[Data]	OAZ:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OAZ:0&res=1
	Response	OAZ:[Data]						
	Request	QAZ						
	Response	OAZ:[Data]						
Privacy Mode	Control	OSJ:A7:[Data]	0 1	Off On	cam	OSJ:A7:[Data]	OSJ:A7:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A7:0&res=1
	Response	OSJ:A7:[Data]						
	Request	QSJ:A7						
	Response	OSJ:A7:[Data]						
Power On Position	Control	OSJ:45:[Data]	0 1 2 3	None Standby Home Preset	cam	OSJ:45:[Data]	OSJ:45:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:45:1&res=1
	Response	OSJ:45:[Data]						
	Request	QSJ:45						
	Response	OSJ:45:[Data]						
Power On Preset Number	Control	OSJ:46:[Data]	00 - 99	Preset001 - Preset100	cam	OSJ:46:[Data]	OSJ:46:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:46:00&res=1
	Response	OSJ:46:[Data]						
	Request	QSJ:46						
	Response	OSJ:46:[Data]						
Pan Speed Control	Control	#P[Data]	01 - 50 - 99	Left Max. Speed - Stop - Right Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23P50&res=1
	Response	pS[Data]						
	Request	-						
	Response	-						
Pan Speed Control (Ex)	Control	#HP[Data]	7F00h - 8000h - 8100h	-256 : Left Max. Speed - 0 : Stop - +256 : Right Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HP8000&res=1
	Response	hP[Data]						
	Request	-						
	Response	-						
Tilt Speed Control	Control	#T[Data]	01 - 50 - 99	Down Max. Speed - Stop - UP Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23T50&res=1
	Response	tS[Data]						
	Request	-						
	Response	-						
Tilt Speed Control (Ex)	Control	#HT[Data]	7F00h - 8000h - 8100h	-256 : Down Max. Speed - 0 : Stop - +256 : UP Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HT8000&res=1
	Response	hT[Data]						
	Request	-						
	Response	-						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
P/T Speed Control	Control	#PTS[Data1] [Data2]	[Data1] 01 -	[Data1] Left Max. Speed -	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTS5050&res=1
	Response	pTS[Data1] [Data2]	50 -	Stop -				
	Request	-	[Data2] 01 -	[Data2] Down Max. Speed -				
	Response	-	50 -	Stop -				
P/T Speed Control (Ex)	Control	#HPT[Data1] [Data2]	[Data1] 7F00h -	[Data1] -256 : Left Max. Speed -	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HPT80008000&res=1
	Response	hPT[Data1] [Data2]	8000h -	0 : Stop -				
	Request	-	8100h [Data2] 7F00h -	+256 : Right Max. Speed [Data2] -256 : Down Max. Speed -				
	Response	-	8000h -	0 : Stop -				
P/T Absolute Position Control with Speed and acceleration (PT Independent Control)	Control	#HAC[Data1] [Data2] [Data3] [Data4] [Data5] [Data6] [Data7] [Data8]	[Data1] 0000~FFFF [Data2] 0000~FFFF	[Data1] Pan Position (Same as #APC) [Data2] Tilt Position (Same as #APC)	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HAC8000800080808080&res=1
	Response	hAC[Data1] [Data2] [Data3] [Data4] [Data5] [Data6] [Data7] [Data8]	[Data3] 00~FF [Data4] 00~FF	[Data3] Pan Speed (00:stop 1~255:speed) [Data4] Tilt Speed (00:stop 1~255:speed)				
	Request	-	[Data5] 01~FF [Data6] 01~FF	[Data5] Pan Rise Acceleration (Same as OSJ:A5) [Data6] Tilt Rise Acceleration (Same as OSJ:A5)				
	Response	-	[Data7] 01~FF [Data8] 01~FF	[Data7] Pan Fall Acceleration (Same as OSJ:A6) [Data8] Tilt Fall Acceleration (Same as OSJ:A6)				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
P/T Absolute Position Control	Control	#APC[Data1][Data2]	[Data1] 0000h - 8000h - FFFFh	[Data1]Pan Position CCW Limit - Center - CW Limit	ptz	-	aPC[Data1][Data2]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23APC80008000&res=1 Pan : 2D09(-175deg) - D2F5(+175deg) Tilt : 8E38(-30deg) - 1C71(+210deg)
	Response	aPC[Data1][Data2]	[Data2] 0000h - 8000h - FFFFh	[Data2]Tilt Position UP Limit - Center - DOWN Limit				
	Request	#APC						
	Response	aPC[Data1][Data2]						
P/T Relative Position Control	Control	#RPC[Data1][Data2]	[Data1] 0000h - 8000h - FFFFh	[Data1]Pan Position CCW Limit - Center - CW Limit	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RPC80008000&res=1
	Response	rPC[Data1][Data2]	[Data2] 0000h - 8000h - FFFFh	[Data2]Tilt Position UP Limit - Center - DOWN Limit				
	Request	-						
	Response	-						
P/T Absolute Position Control with Speed	Control	#APS[Data1][Data2][Data3][Data4]	[Data1] 0000h - 8000h - FFFFh	[Data1]Pan Position CCW Limit - Center - CW Limit	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23APS800080001D0&res=1 Pan : 2D09(-175deg) - D2F5(+175deg) Tilt : 8E38(-30deg) - 1C71(+210deg)
	Response	aPS[Data1][Data2][Data3][Data4]	[Data2] 0000h - 8000h - FFFFh	[Data2]Tilt Position UP Limit - Center - DOWN Limit				
	Request	-	[Data3] 00h - 1Dh	[Data3]Preset Speed 1 - 30				
	Response	-	[Data4] 0 1 2	[Data4]Preset Speed Table SLOW MID FAST				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
P/T Relative Position Control with Speed	Control	#RPS[Data1][Data2][Data3][Data4]	[Data1] 0000h - 8000h - FFFFh	[Data1]Pan Position CCW Limit - Center - CW Limit	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RPS800080001D0&res=1
	Response	rPS[Data1][Data2][Data3][Data4]	[Data2] 0000h - 8000h - FFFFh	[Data2]Tilt Position UP Limit - Center - DOWN Limit				
	Request	-	[Data3] 00h - 1Dh	[Data3]Preset Speed 1 - 30				
	Response	-	[Data4] 0 1 2	[Data4]Preset Speed Table SLOW MID FAST				
Limitation Control	Control	#LC[Data1][Data2]	[Data1] 1	[Data1] Tilt Up	ptz	IC[Data1][Data2]	IC1[Data2] IC2[Data2] IC3[Data2] IC4[Data2]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LC1&res=1
	Response	IC[Data1][Data2]	2 3 4	Tilt Down Pan Left Pan Right				
	Request	#LC[Data1]	[Data2] 0	[Data2] Release				
	Response	IC[Data1][Data2]	1	Set				
Limitation Control (toggle)	Control	#L[Data]	Controller -> P/T 1	Tilt Up	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23L1&res=1
	Response	l[Data]	2 3 4	Tilt Down Pan Left Pan Right				
	Request	-	P/T -> Controller	Release				
	Response	-	0 1	Set				

Preset

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Preset PTZ Sync Mode	Control	OSL:CE:[Data]	0 1	Off On	cam	OSL:CE:[Data]	OSL:CE:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:CE:1&res=1
	Response	OSL:CE:[Data]						
	Request	QSL:CE						
	Response	OSL:CE:[Data]						
Preset Speed Unit	Control	OSJ:29:[Data]	0 1	Speed Table Time	cam	OSJ:29:[Data]	OSJ:29:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:29:0&res=1
	Response	OSJ:29:[Data]						
	Request	QSJ:29						
	Response	OSJ:29:[Data]						
Preset Speed Table	Control	#PST[Data]	0 2	Slow Fast	ptz	pST[Data]	pST[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PST0&res=1
	Response	pST[Data]						
	Request	#PST						
	Response	pST[Data]						
Preset Speed	Control	#UPVS[Data]	000 250 ~ 999 001h ~ 063h	Preset Speed Unit : Speed 30 : MaxSpeed 1 : Slow ~ 30 : Fast Preset Speed Unit : Time 1 second ~ 99 second	ptz	uPVS[Data]	uPVS[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23UPVS250&res=1 Preset Speed Unit : Speed 001-275:1 276-301:2 302-327:3 328-353:4 354-379:5 380-404:6 405-430:7 431-456:8 457-482:9 483-508:10 509-534:11 535-559:12 560-585:13 586-611:14 612-637:15 638-663:16 664-689:17 690-714:18 715-740:19 741-766:20 767-792:21 793-818:22 819-844:23 845-869:24 870-895:25 896-921:26 922-947:27 948-973:28 974-998:29 999,000:30
	Response	uPVS[Data]						
	Request	#UPVS						
	Response	uPVS[Data]						
Preset Acceleration	Control	OSJ:A8:[Data]	0 1	Manual Auto	cam	OSJ:A8:[Data]	OSJ:A8:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A8:0&res=1
	Response	OSJ:A8:[Data]						
	Request	QSJ:A8						
	Response	OSJ:A8:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Preset Rise S-Curve	Control	OSJ:A9: [Data]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:A9:00&res=1
	Response	OSJ:A9: [Data]	00h	0	cam	OSJ:A9: [Data]	OSJ:A9:0x[Data]	
	Request	QSJ:A9	1E	30				
	Response	OSJ:A9: [Data]						
Control	OSJ:AA: [Data]							
Preset Fall S-Curve	Response	OSJ:AA: [Data]	00h	0	cam	OSJ:AA: [Data]	OSJ:AA:0x[Data]	
	Request	QSJ:AA	1E	30				
	Response	OSJ:AA: [Data]						
	Control	OSJ:AB: [Data]						
Preset Rise Acceleration	Response	OSJ:AB: [Data]	01h	1	cam	OSJ:AB: [Data]	OSJ:AB:0x[Data]	
	Request	QSJ:AB	FFh	255				
	Response	OSJ:AB: [Data]						
	Control	OSJ:AC: [Data]						
Preset Fall Acceleration	Response	OSJ:AC: [Data]	01h	1	cam	OSJ:AC: [Data]	OSJ:AC:0x[Data]	
	Request	QSJ:AC	FFh	255				
	Response	OSJ:AC: [Data]						
	Control	OSJ:AD: [Data]						
Preset Rise Ramp Time	Response	OSJ:AD: [Data]	01h	0.1s	cam	OSJ:AD: [Data]	OSJ:AD:0x[Data]	
	Request	QSJ:AD	64h	10.0s				
	Response	OSJ:AD: [Data]						
	Control	OSJ:AE: [Data]						
Preset Fall Ramp Time	Response	OSJ:AE: [Data]	01h	0.1s	cam	OSJ:AE: [Data]	OSJ:AE:0x[Data]	
	Request	QSJ:AE	64h	10.0s				
	Response	OSJ:AE: [Data]						
	Control	OSE:71: [Data]						
Preset Scope	Response	OSE:71: [Data]	0	MODE A	cam	OSE:71: [Data]	OSE:71: [Data]	
	Request	QSE:71	1	MODE B				
	Response	OSE:71: [Data]	2	MODE C				
	Control	OSE:7C: [Data]						
Preset D-Extender	Response	OSE:7C: [Data]	0	Off	cam	OSE:7C: [Data]	OSE:7C: [Data]	
	Request	QSE:7C	1	On				
	Response	OSE:7C: [Data]						
	Control	OSJ:2A: [Data]						
Preset Crop	Response	OSJ:2A: [Data]	0	Off	cam	OSJ:2A: [Data]	OSJ:2A:0x[Data]	
	Request	QSJ:2A	1	On				
	Response	OSJ:2A: [Data]						
	Control	OSJ:2B: [Data]						
Preset Thumbnail Update	Response	OSJ:2B: [Data]	0	Off	cam	OSJ:2B: [Data]	OSJ:2B:0x[Data]	
	Request	QSJ:2B	1	On				
	Response	OSJ:2B: [Data]						
	Control	OSJ:2C: [Data]						
Preset Name	Response	OSJ:2C: [Data]	0	Reset	cam	OSJ:2C: [Data]	OSJ:2C:0x[Data]	
	Request	QSJ:2C	1	Hold				
	Response	OSJ:2C: [Data]						
	Control	OSJ:2C: [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Preset Iris	Control	OSJ:5B:[Data]	0 1	Off On	cam	OSJ:5B:[Data]	OSJ:5B:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:5B:0&res=1
	Response	OSJ:5B:[Data]						
	Request	QSJ:5B						
	Response	OSJ:5B:[Data]						
Preset Zoom Mode	Control	OSE:7D:[Data]	0 1	Mode A Mode B	cam	OSE:7D:[Data]	OSE:7D:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7D:0&res=1
	Response	OSE:7D:[Data]						
	Request	QSE:7D						
	Response	OSE:7D:[Data]						
Preset Shutter	Control	OSJ:D5:[Data]	0 1	Off On	cam	OSJ:D5:[Data]	OSJ:D5:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:D5:0&res=1
	Response	OSJ:D5:[Data]						
	Request	QSJ:D5						
	Response	OSJ:D5:[Data]						
Freeze During Preset	Control	#PRF[Data]	0 1	Off On	ptz	pRF [Data]	pRF [Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PRF0&res=1
	Response	pRF [Data]						
	Request	#PRF						
	Response	pRF [Data]						
Recall Preset Memory	Control	#R[Data]	00 - 99	Preset001 - Preset100	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23R00&res=1
	Response	s [Data]						
	Request	-						
	Response	-						
Save Preset Memory	Control	#M[Data]	00 - 99	Preset001 - Preset100	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23M00&res=1
	Response	s [Data]						
	Request	-						
	Response	-						
Delete Preset Memory	Control	#C[Data]	00 - 99	Preset001 - Preset100	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23C00&res=1
	Response	s [Data]						
	Request	-						
	Response	-						
Preset Entry Confirmation	Control	-	[Data1] 00h - 02h	[Data1] multiple (each 40 Presert No)	ptz	pE [Data1] [Data2]	pE00 [Data2] pE01 [Data2] pE02 [Data2]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PE00&res=1
	Response	-	[Data2] 0000000000h - FFFFFFFFFh	[Data2]				
	Request	#PE [Data1]	(bit0) 0 1 (bit1) 0 1 -	PRESET No. (Data1*40 +1) No Entry Entry PRESET No. (Data1*40 +2) No Entry Entry -				
	Response	pE [Data1] [Data2]	(39bit) 0 1	PRESET No. (Data1*40 +40) No Entry Entry				
Request Latest Recall Preset No.	Control	-	00 - 99	Preset001 - Preset100	ptz	s [Data]	s [Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23S&res=1
	Response	-						
	Request	#S						
	Response	s [Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Preset completion notification	Control	-						
	Response	q[Data]	00	Preset001				
	Request	-	99	Preset100	ptz	q[Data]	-	
	Response	-						
Save Preset Name	Control	OSJ:35:[Data1]:[Data2]	[Data1]	[Data1]				http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:35:00:xxxxxxxxxxxx&res=1
	Response	OSJ:35:[Data1]:[Data2]	00h	Preset001				
	Request	QSJ:35:[Data1]	99h	Preset100	cam	OSJ:35:[Data1]:[Data2]	-	
	Response	OSJ:35:[Data1]:[Data2]	[Data2] xxxxxxxxxx xxxx	Preset Name (Fixed 15 Charactors)				
Delete Preset Name (Single)	Control	OSJ:36:[Data1]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:36:00&res=1
	Response	OSJ:36:[Data]	00	Preset001				
	Request	-	99	Preset100	cam	OSJ:36:[Data]	-	
	Response	-						
Delete Preset Name (All)	Control	OSJ:37						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:37&res=1
	Response	OSJ:37						
	Request	-			cam	OSJ:37	-	
	Response	-						
Update Preset Thumbnail	Control	OSJ:39:[Data1]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:39:00&res=1
	Response	OSJ:39:[Data]	00	Preset001				
	Request	-	99	Preset100	cam	OSJ:39:[Data]	-	
	Response	-						
Delete Preset Thumbnail (Single)	Control	OSJ:3A:[Data1]						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:3A:00&res=1
	Response	OSJ:3A:[Data]	00	Preset001				
	Request	-	99	Preset100	cam	OSJ:3A:[Data]	-	
	Response	-						
Delete Preset Thumbnail (All)	Control	OSJ:3B						http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:3B&res=1
	Response	OSJ:3B						
	Request	-			cam	OSJ:3B	-	
	Response	-						
Preset Name/Preset Thumbnail Counter	Control	-	[Data1]	[Data1]				http://192.168.0.10/cgi-bin/aw_cam?cmd=QSJ:3C:00&res=1
	Response	-	00h 01h 02h 03h 04h 05h 06h 07h 08h 09h 0Ah 0Bh	Preset 001-009 Preset 010-018 Preset 019-027 Preset 028-036 Preset 037-045 Preset 046-054 Preset 055-063 Preset 064-072 Preset 073-081 Preset 082-090 Preset 091-099 Preset 100				
	Request	QSJ:3C:[Data1]	[Data2]	[Data2]	cam	-	-	
	Response	OSJ:3C:[Data1]:[Data2]	00000000h - FFFFFFFFh	00000000h - FFFFFFFFh				

See Chapter 6 for Preset sequence

Convenient command

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Get Gain/Color Temperature/Shutter/ND	Control	-	[Data1] 08h - 11h - 1Ah -	[Data1] (Gain) 0dB - 9dB - 18dB -	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTG&res=1
	Response	-	32h 80h [Data2] 00000h -	42dB AGC ON [Data2] OK -				
	Request	#PTG	3A98h [Data3] 0h 1h 2h 3h [Data4] 0001h -	15000K [Data3] (Shutter Mode) Off step Syncro ELC [Data4] (Shutter Step) 1/1 -				
	Response	pTG[Data1] [Data2] [Data3] [Data4] [Data5] [Data6]	2710 h [Data5] 00000h -	1/10000 [Data5] (Shutter Synchro) 0.0 [Hz] -				
	Response	pTG[Data1] [Data2] [Data3] [Data4] [Data5] [Data6]	186A0h [Data6] 0 1 2 3	10000.0 [Hz] [Data6] (ND) Throgh 1/4 ND 1/16 ND 1/64 ND				
Get Pan/Tilt/Zoom/Focus/Iris	Control	-	[Data1] 0000h - 8000h -	[Data1] (Pan) ccwLimit - Center -	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTV&res=1
	Response	-	FFFFh [Data2] 0000h -	cwLimit [Data2] (Tilt) UpLimit -				
	Request	#PTV	8000h - FFFFh [Data3] 555h -	Center - DownLimit [Data3] (Zoom) Wide -				
	Response	pTV[Data1] [Data2] [Data3] [Data4] [Data5]	FFFFh [Data4] 555h -	Tele [Data4] (Focus) Near -				
	Response	pTV[Data1] [Data2] [Data3] [Data4] [Data5]	FFFFh [Data5] 555h - FFFFh	Far [Data5] (Iris) Close - Open				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Get Pan/Tilt/Zoom/Focus/Iris	Control	-	[Data1] 0000h - FFFFh	[Data1] (Pan) 0000h - FFFFh	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTD&res=1
	Response	-	[Data2] 0000h - FFFFh [Data3] 000h - 3E7h	[Data2] (Tilt) 0000h - FFFFh [Data3] (Zoom) 0 - 999				
	Request	#PTD	[Data4] 00h - 63h [Data5] 00h - FEh FFh	[Data4] (Focus) 0 - 99 [Data5] (Iris) F0.0 - F25.4 CLOSE				
	Response	pTD[Data1] [Data2] [Data3] [Data4] [Data5]						
PTZF Speed Control 1	Control	#HV1 [Data1] [Data2] [Data3] [Data4]	[Data1] 00 01 - 50 - 99	[Data1] No Change Left Max. Speed - Stop - Right Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HV150505050&res=1
	Response	hV1 [Data1] [Data2] [Data3] [Data4]	[Data2] 00 01 - 50 - 99	[Data2] No Change Down Max. Speed - Stop - UP Max. Speed				
	Request	-	[Data3] 00 01 - 50 - 99	[Data3] No Change Wide Max. Speed - Stop - Tele Max. Speed				
	Response	-	[Data4] 00 01 - 50 - 99	[Data4] No Change Near Max. Speed - Stop - Far Max. Speed				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
PTZF Speed Control 2	Control	#HV2[Data1][Data2][Data3][Data4]	[Data1] 0000h 7F00h - 8000h -	[Data1] No Change Left Max. Speed - Stop -	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HV28000800050&res=1
	Response	hV2[Data1][Data2][Data3][Data4]	8100h [Data2] 0000h 7F00h - 8000h -	Right Max. Speed [Data2] No Change Down Max. Speed - Stop -				
	Request	-	8100h [Data3] 0000h 7F00h - 8000h -	UP Max. Speed [Data3] No Change Wide Max. Speed - Stop -				
	Response	-	8100h [Data4] 00 01 - 50 - 99	Tele Max. Speed [Data4] No Change Near Max. Speed - Stop - Far Max. Speed				
PTZF Absolute Control	Control	#HA1[Data1][Data2][Data3][Data4][Data5][Data6][Data7]	[Data1] 0000h - 8000h - FFFFh [Data2] 0000h -	[Data1]Pan Position CCW Limit - Center - CW Limit [Data2]Tilt Position UP Limit -	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23HA18000800010155501555&res=1
	Response	hA1[Data1][Data2][Data3][Data4][Data5][Data6][Data7]	8000h - FFFFh [Data3] 00h - 1Dh [Data4] 0 2 [Data5] 555h - FFFh [Data6] 01h - 64h	DOWN Limit [Data3]Preset Speed 1 - 30 [Data4]Preset Speed Table SLOW FAST [Data5]Zoom Position Wide - Tele [Data6]Zoom Speed 1 - 100				
	Request	#HA1	[Data5] 555h - FFFh [Data6] 01h - 64h	[Data5]Zoom Position Wide - Tele [Data6]Zoom Speed 1 - 100				
	Response	hA1[Data1][Data2][Data3][Data4][Data5][Data6][Data7]	[Data7] 555h - FFFh	[Data7]Focus Position Near - Far				

OSD

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Menu On/Off	Control	DUS: [Data]	0 1	Off On	cam	-	OUS: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=DUS:1&res=1
	Response	DUS: [Data]						
	Request	QUS						
	Response	OUS: [Data]						
Menu Cancel	Control	DPG: [Data]	1	Cancel	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DPG&res=1
	Response	DPG: [Data]						
	Request	-						
	Response	-						
Menu Enter	Control	DIT: [Data]	1	Enter	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DIT&res=1
	Response	DIT: [Data]						
	Request	-						
	Response	-						
Menu Up	Control	DUP: [Data]	1	Up	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DUP&res=1
	Response	DUP: [Data]						
	Request	-						
	Response	-						
Menu Down	Control	DDW: [Data]	1	Down	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DDW&res=1
	Response	DDW: [Data]						
	Request	-						
	Response	-						
Menu Right	Control	DRT: [Data]	1	Right	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DRT&res=1
	Response	DRT: [Data]						
	Request	-						
	Response	-						
Menu Left	Control	DLT: [Data]	1	Left	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DLT&res=1
	Response	DLT: [Data]						
	Request	-						
	Response	-						

Maintenance

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
Error Information	Control	-	0	Normal	cam	OER: [Data]	OER: [Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QER&res=1
	Response	-	1	Fan Error				
	Request	QER	2	Other Error				
	Response	OER: [Data]		*bit0:Fan Error, bit1:Other Error				
Error Information	Control	-	00000000h	No Error	cam	OSI:46: [Data]	OSI:46:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSI:46&res=1
	Response	-	00000001h	Fan Error				
	Request	QSI:46	00000002h	High Temperature				
	Response	OSI:46: [Data]	00000004h	Lens Error				
			00000008h	Pan/Tilt Error				
			00000010h	Sensor Error				
Latest Error Information	Control	-	03h	Motor Driver Error	ptz	rER[Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RER&res=1
	Response	-	21h	System Error				
	Request	#RER	22h	Spec Limit Over				
	Response	rER[Data]	24h	NET Life-monitoring Error				
			25h	BE Life-monitoring Error				
			29h	CAM Life-monitoring Error				
			31h	Fan1 error				
			32h	Fan2 error				
			33h	High Temp				
			36h	Low Temp				
			39h	Wiper Error				
			40h	Temp Sensor Error				
			41h	Lens Initialize Error				
			42h	PT. Initialize Error				
			43h	PoE++ Software auth. Timeout				
			50h	MR Level Error				
			52h	MR Offset Error				
			55h	PT Gear Error				
			57h	Gyro Error				
			58h	PT. Initialize Error				

