Integrated Camera Interface Specifications

AW-UE5

2026/7/17

Panasonic Corporation

■Index

1.Introduction

This manual describes the external interface specifications which are applicable when the AW-UE5 is operated.
This manual consists of an overview of the external interface and a description of each command of UE5

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.

②Camera 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.

③Camera 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.

④Error 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.

⑤Menu list and command correspondence table

This table which summarizes UE5 menu list and commands related to each menu item.
For further details, refer to chapter 8.

⑥Control and request command

Describes the specifications of commands used in UE5.
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).
example)Pan stop command

#	P	5	0
0x23	0x50	0x35	0x30

Commands that starts with "#" in the control / request commands (in chapter 7) are for Pan/Tilt control commands

3-2.Camera control command

This interface is for the camera lens control and image/color adjustments.
":" letter is required before [Data] for camera Control commands,
example)Auto Focus setting

O	A	F	:	1
0x4F	0x41	0x46	0x3A	0x31

4.Communication method

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”

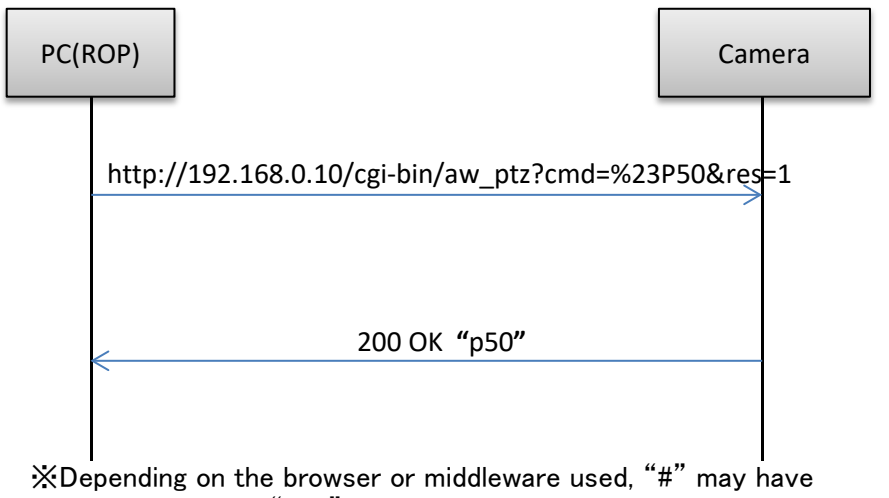
▼Receive format

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”

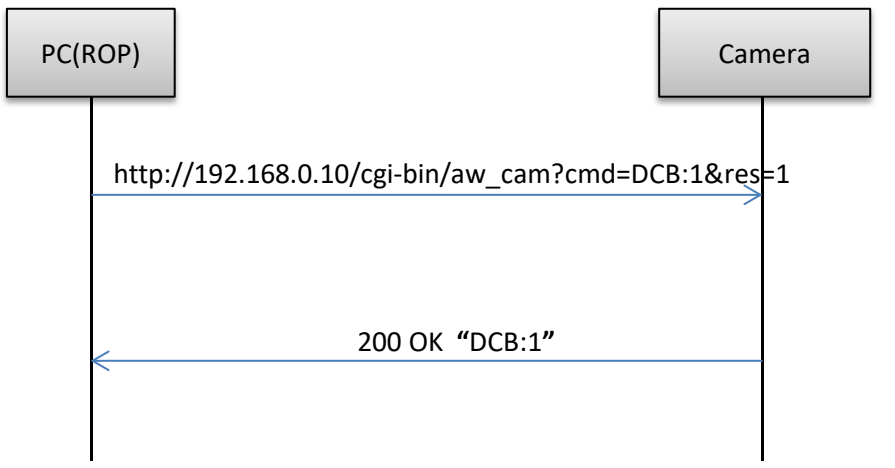
▼Receive format

200 OK “**Command**”

※Command・・・Response value of each command;
set in the HTTP message body

See more detail in Capter 7 for the error communication sequence for the transmitted command

▼Sequence



【Restrictions】

1. Keep-Alive cannot be set with HTTP connections.
   Connect and disconnect are performed each time a command is sent or received.
2. Some settings and conditions may restrict the effects of other settings (※ including those with exclusive control conditions).
   See also the operating instructions which are provided with the products.
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.)

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:

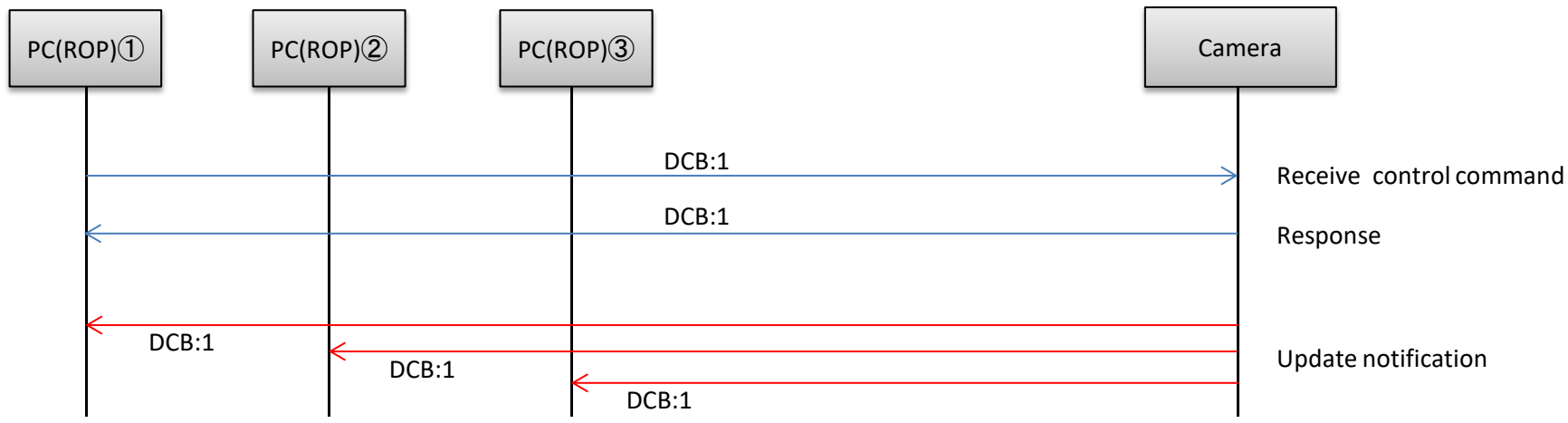
A) When a camera setting is changed by one terminal, the other terminals are notified of the setting change immediately.

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

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)

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

例1)Power: On
[CR][LF]p1[CR][LF]

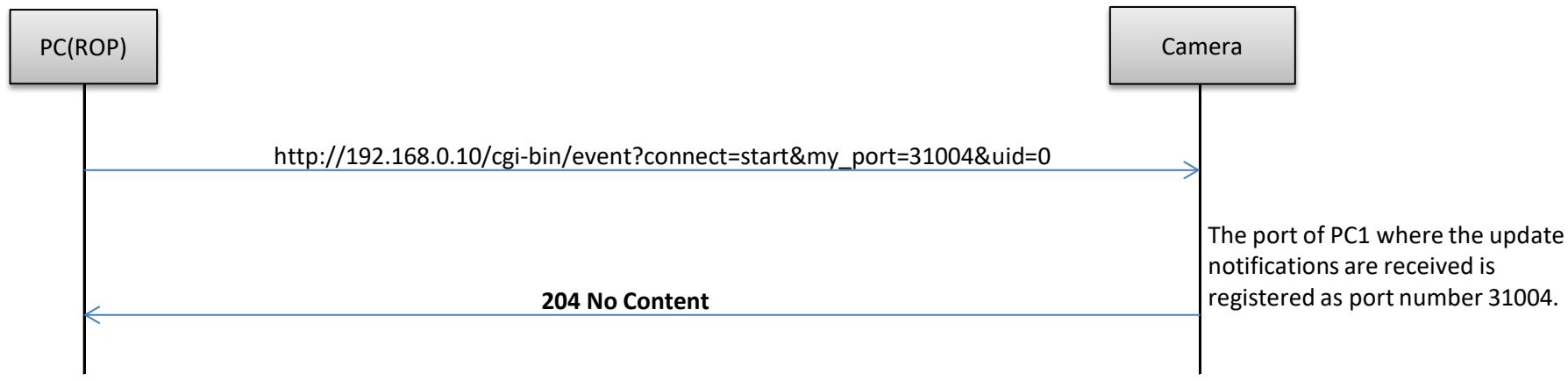
例2)カラーバー: On
[CR][LF]DCB:1[CR][LF]

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)

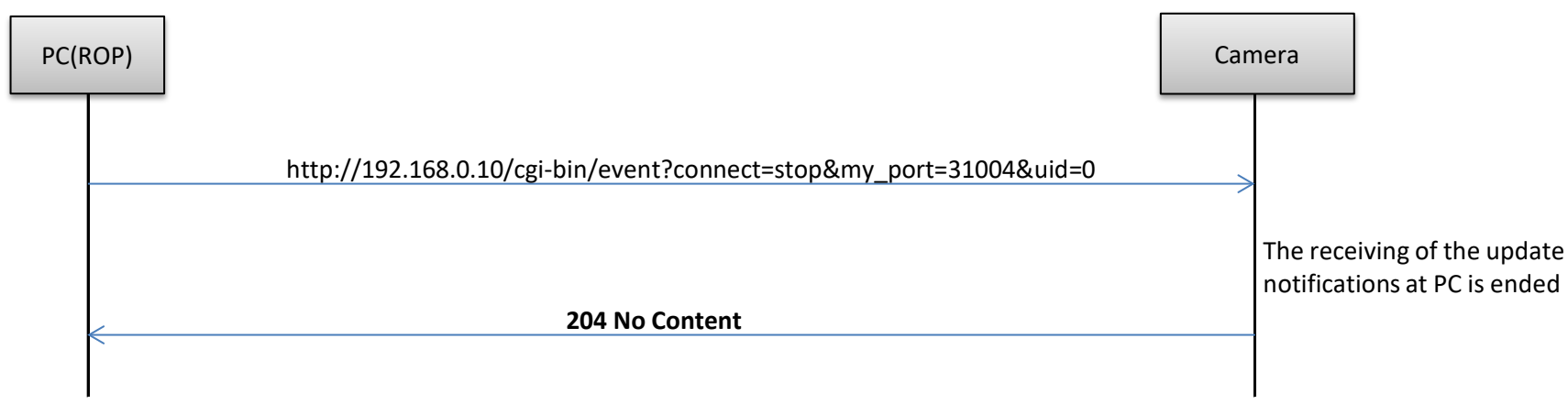
【Update notification receive start sequence】
The update notification receive start command is sent from the terminal where the update notifications are to be received.
“204 No Content” is returned from the camera which has received the command.



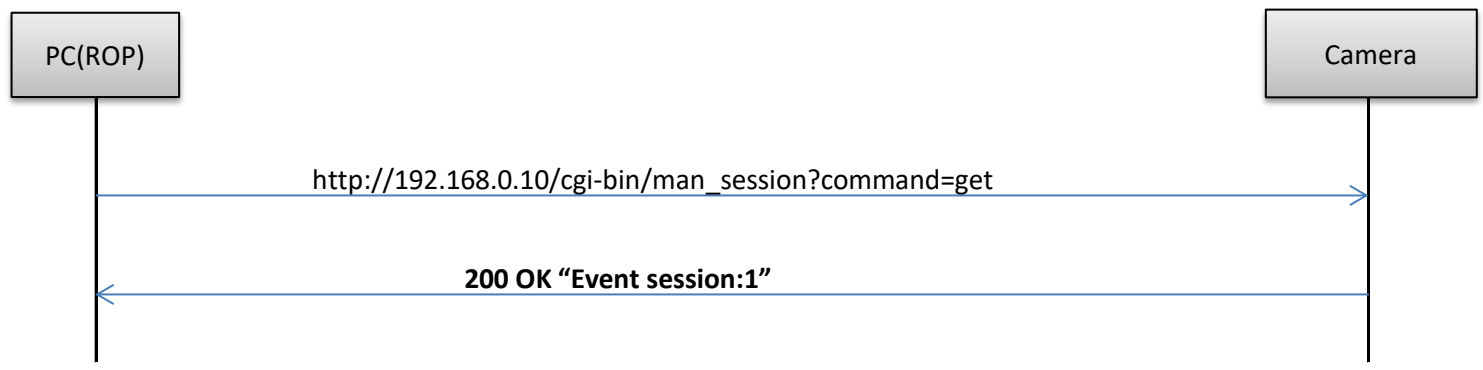
【Caution】
Proceed with the update notification receive start step when communication has been cut off because the LAN cable has been disconnected, for example.

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.
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



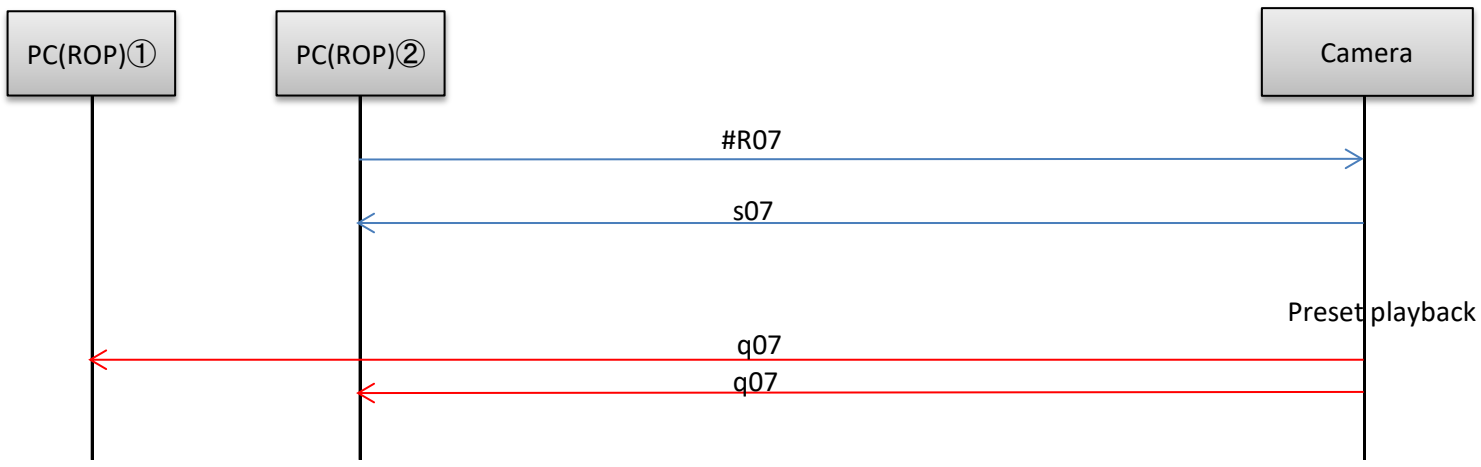
6.Special sequences

6-1.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.

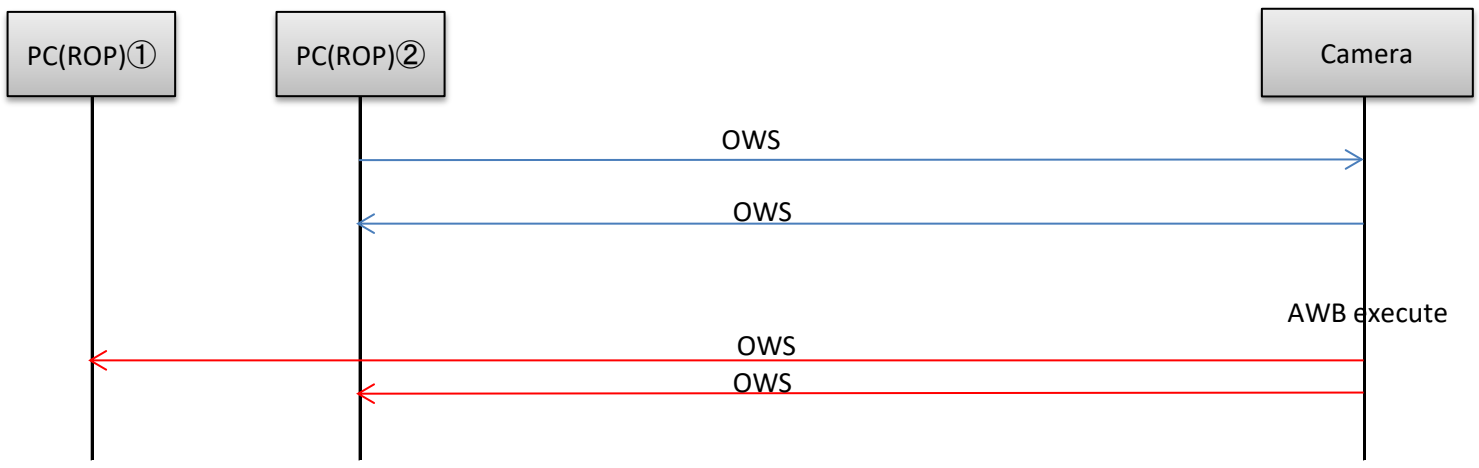


6-2 AWB/ABB execution

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 execution command is received, “204 No Content” is returned as the HTTP response,
and as soon as the AWB execution is completed, “OWS” is posted separately as the update notification.



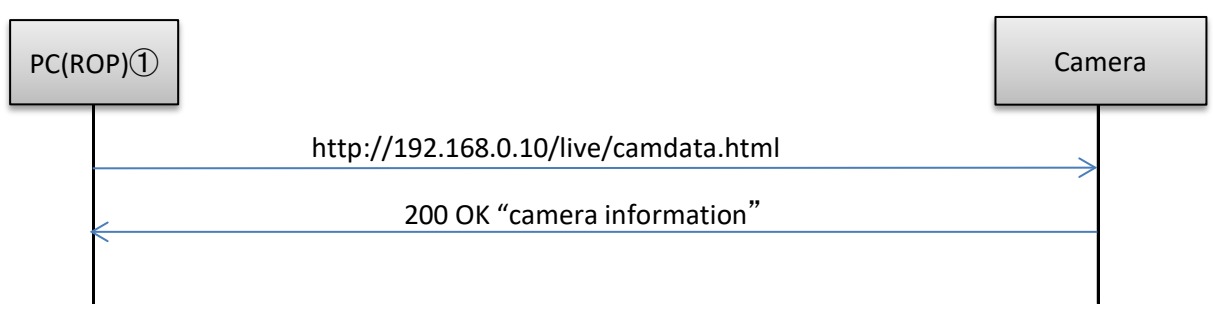
6-3.Camera information batch acquisition

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】

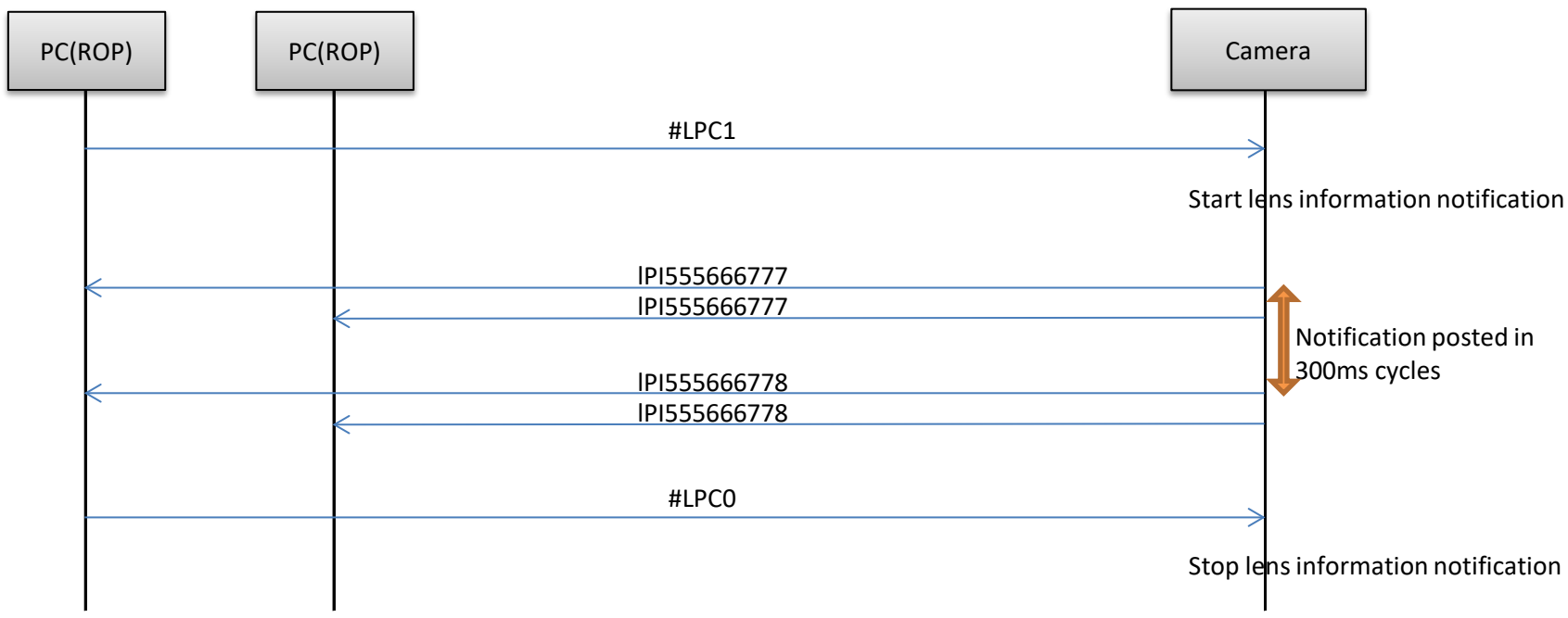


6-4.Lens Information

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).



7.Error return

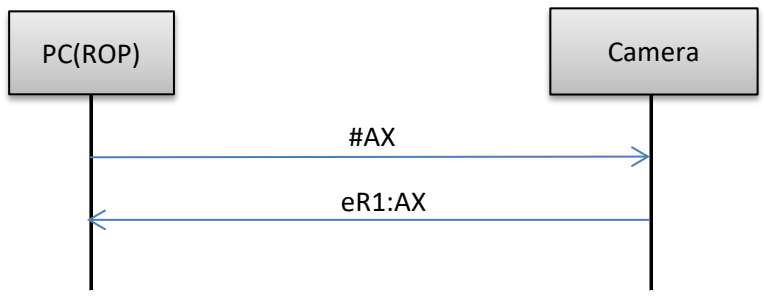
The three errors ER1, ER2 and ER3 below are returned in response to control or query commands by the camera.

In the case of Pan/Tilt control command

▼ER1 (unsupported command)

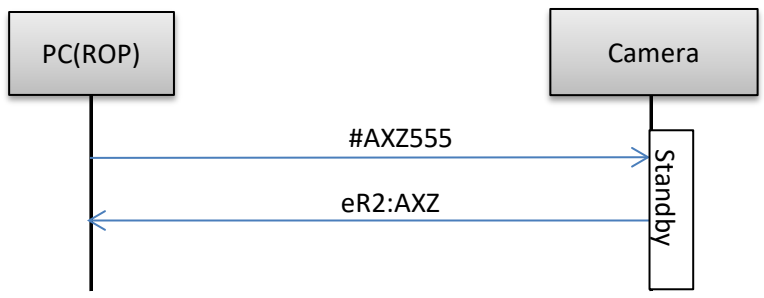
This error is generated when a command which is not supported by the camera has been received by the camera

example) When the non existent “AX” command is executed for the camera



▼ER2 (busy status)

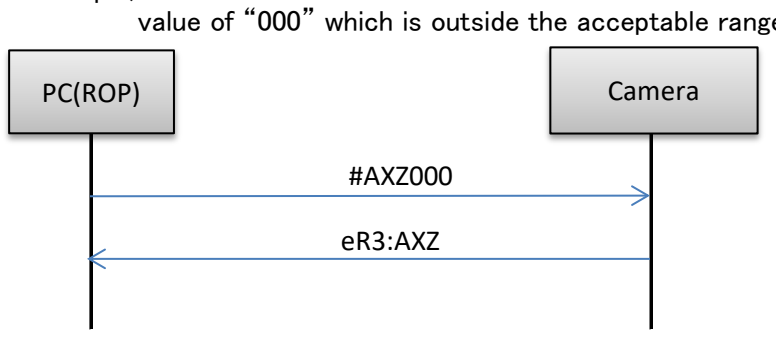
This error is generated during Standby (Power Off) or at other times when the camera is in the busy status.



▼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.

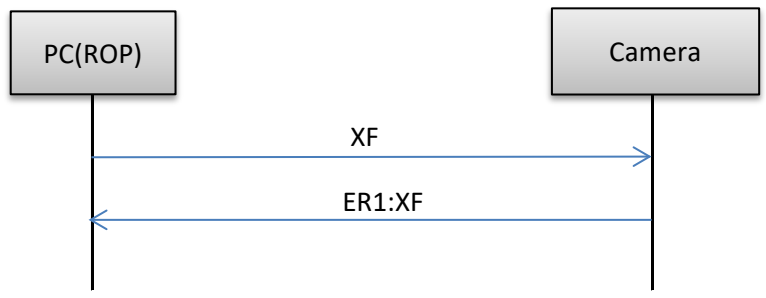


In the case of Camera control command

▼ER1 (unsupported command)

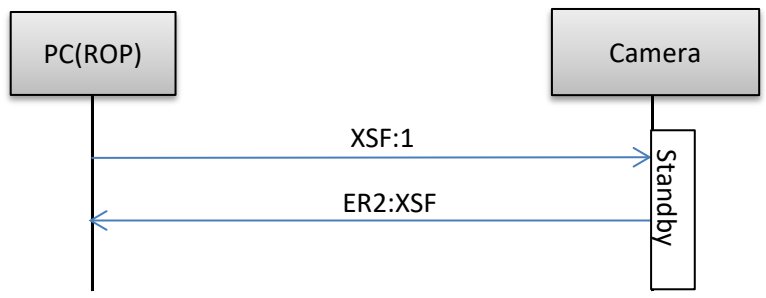
This error is generated when a command which is not supported by the camera has been received by the camera

example) When the non existent “XF” command is executed for the camera



▼ER2 (busy status)

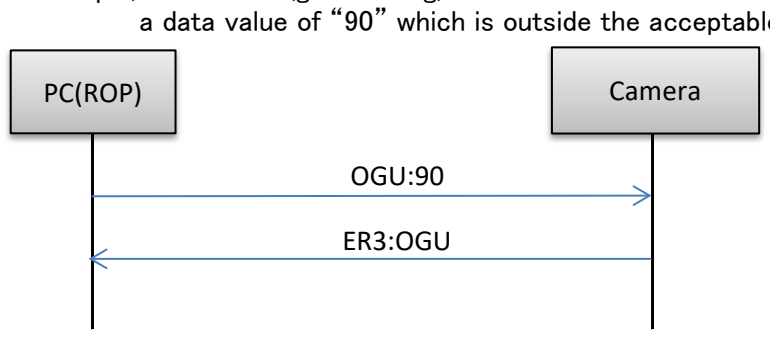
This error is generated during Standby (Power Off) or at other times when the camera is in the busy status.



▼ER3 (outside acceptable range)

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

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



8. AW-UE5 Menu-Command Correspondence Table

Menu	Command	Remarks
Camera		
Scene	XSF	
Brightness		
Picture Level	OSD:48	Available when Scene is "Full Auto" or "Shutter Priority" condition.
AGC MaxGain	OSD:69	Available when Scene is "Full Auto" or "Shutter Priority" condition.
Slow Shutter	OSJ:80	Available when Scene is "Full Auto" condition.
Shutter Speed	OSJ:03 OSJ:04 OSJ:05 OSJ:06	Available when Scene is "Shutter Priority" or "Manual" condition.
Gain	OGU	Available when Scene is "Manual" condition.
Picture		
Chroma Level	OCG	
White Balance Mode	OAW OWS OAS	
Detail	ODT	
Contrast	OSD:50	
DRS	OSE:33	
Back Light COMP.	OSE:73	Available when Scene is "Full Auto" or "Shutter Priority" condition.
DNR	OSD:3A	
LDC	OSJ:84	
Lens		
Max Digital Zoom	OSE:7A	
LDC	OSJ:84	
Power on Position	OSJ:45	
P.ON Preset No.	OSJ:46	
Priority Mode	-	There is no corresponding AW command. Can be set by CGI command
Frequency	OSE:77	
Format	OSA:87	
Install Position	#INS	
Mirror	OSJ:81	
Digital Zoom	OSE:70	
Tally	#TAE #DA #TAA TLR TLG TLY	
Wireless ID	#RID #WLC	
OSD Off during R-Tally	OSE:75	
Framing Tally Color	OSM:41	
ColorBar	DCB	
Mic	OSA:D0	
AI		
Basic Config		
Functionality	OSM:98	
Group Framing		
Auto Start	OSM:A2	
Framing Control	OSM:99	
Framing Status	OSM:9A	
Number of detected	OSM:9B	
Home Position	OSM:9C	
Framing Sensitivity	OSM:9D	
1st Preset Frame	OSM:9E	
2nd Preset Frame	OSM:9F	
3rd Preset Frame	OSM:A0	
Max Zoom	OSM:A1	
Output		
USB	OSM:A3	
HDMI	OSM:A4	
IP Streaming	OSM:A5	
Web	OSM:A6	
Maintenance		
Language	OSJ:82	
FW Version	QSV	

Commands not linked to menus		
MENU Control		
MENU(MENU ON/OFF)	DUS	
MENU SW(MENU Cancel)	DPG	
ITEM SW(ENTER Botton)	DIT	
YES SW(UP Botton)	DUP	
NO SW(Down Botton)	DDW	
RIGHT SW(Right Botton)	DRT	
LEFT SW(Left Botton)	DLT	
Pan/Tilt		
Pan/Tilt Absolute Position Control	#APC	
PAN SPEED	#P	
TILT SPEED	#T	
Pan Tilt Speed Control	#PTS	
Lens		
Zoom Position Control	#Z	
Zoom Speed	#AXZ	
Focus Position Control	#AXF	
IRIS AUTO/MANUAL	ORS	
Iris Control	#AXI	
Lens Position Information Control	#LPC	
Lens Position Information	#LPI	
Preset		
Recall Preset Memory	#R	
Save Preset Memory	#M	
Delete Preset Memory	#C	
Preset Max Number Confirmation	#PE	
Request Latest Recall Preset No.	#S	
Preset completion notification	q	
AI		
AI FUNCTION PRESET FRAMING AREA 1ST	OSM:A7	
AI FUNCTION PRESET FRAMING AREA 2ND	OSM:A8	
AI FUNCTION PRESET FRAMING AREA 3RD	OSM:A9	
Others		
MODEL NUMBER	QID	
PowerON, Standby	#O	

9. Command list

Scene

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Scene	Control	XSF:[Data]	0 1 2 3	- Full Auto Shutter Priority Manual	cam ※1	※2	OSF:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=XSF:1&res=1
	Response	XSF:[Data]						
	Request	QSF	0 1 2 3	Full Auto Shutter Priority Manual -				
	Response	OSF:[Data]						

※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 will be sent
Commands belonging to Scene are as follows

command name	command	Remarks
SCENE FILE	XSF:[Data]	
IRIS AUTO/MANUAL	ORS:[Data]	fixed to AUTO
PICTURE LEVEL	OSD:48:[Data]	Send initial value when Scene is "Manual"
AGC Max Gain	OSD:69:[Data]	Send initial value when Scene is "Manual"
Shutter Mode	OSJ:03:[Data]	Send "OSJ:03:0" when Scene is "Full Auto" Send "OSJ:03:1" when Scene is "Shutter priority" or "Manual"
Slow Shutter	OSJ:80:[Data]	Send the initial value when Scene is set to "Shutter Priority" or "Manual".
Step VAL	OSJ:06:[Data]	Send the initial value when Scene is set to "Full Auto".
Gain	OGU:[Data]	Send the initial value when Scene is set to "Full Auto" or "Shutter Priority".
Chroma Level	OCG:[Data]	
White Balance Mode	OAW:[Data]	Send return parameter of control command
Detail	ODT:[Data]	
Contrast	OSD:50:[Data]	
DRS	OSE:33:[Data]	
Back Light COMP.	OSE:73:[Data]	Send initial value when Scene is "Manual"
DNR	OSD:3A:[Data]	

Brightness

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Picture Level	Control	OSD:48:[Data]	2Eh ~ 32h ~ 36h	-4 ~ 0 ~ 4	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						
	Response	OSD:48:[Data]						
AGC Max Gain	Control	OSD:69:[Data]	04 05 06 07	24dB 30dB 36dB 42dB	cam	OSD:69:[Data]	OSD:69:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:69:04&res=1
	Response	OSD:69:[Data]						
	Request	QSD:69						
	Response	OSD:69:[Data]						
Slow Shutter	Control	OSJ:80:[Data]	0 1	Off On	cam	OSJ:80:[Data]	OSJ:80:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:80:1&res=1 ■On mode [50Hz] 1/1, 1/2, 1/5, 1/10, 1/20, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [59.94Hz/60Hz] 1/1, 1/2, 1/5, 1/10, 1/20, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 ■Off mode [50Hz] 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [59.94Hz/60Hz] 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000
	Response	OSJ:80:[Data]						
	Request	QSJ:80						
	Response	OSJ:80:[Data]						

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Shutter Mode	Control	OSJ:03:[Data]	0h 1h	Off Step	cam	OSJ:03:[Data]	OSJ:03:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:03:1&res=1 ▼When SCENE is "FULL AUTO" Fixed to "Off" ※Send ER3 except setting "Off" ▼When SCENE is "Shutter Priority" or "Manual" Fixed to "Step" ※Send ER3 except setting "Step"
	Response	OSJ:03:[Data]						
	Request	QSJ:03						
	Response	OSJ:03:[Data]						
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 Decrease [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 – 3E80h	1/1 – 1/16000	cam	OSJ:06:[Data]	OSJ:06:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:06:003C&res=1 Except for the effective shutter speed, respond with ER3 ▼In the case of any frequency 0001h 1/1 0002h 1/2 0005h 1/5 000Ah 1/10 0014h 1/20 03E8h 1/1000 07D0h 1/2000 0FA0h 1/4000 1F40h 1/8000 3E80h 1/16000 ▼In the case of 50Hz 0019h 1/25 0032h 1/50 0064h 1/100 00FAh 1/250 01F4h 1/500 ▼In the case of 59.94Hz/60Hz 001Eh 1/30 003Ch 1/60 0078h 1/120 00F0h 1/240 01E0h 1/480
	Request	QSJ:06						
	Response	OSJ:06:[Data]						
Gain	Control	OGU:[Data]	08h – 11h – 1Ah – 32h	0dB – 9dB – 18dB – 42dB	cam	OGU:[Data]	OGU:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OGU:08&res=1 Can be set in 3dB units. ER3 response except parameters that can be set
	Response	OGU:[Data]						
	Request	QGU						
	Response	OGU:[Data]						

Picture

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Chroma Level	Control	OCG:[Data]	03h 04h 05h 06h 07h 08h 09h 0Ah 0Bh 0Ch 0Dh	0 1 2 3 4 5 6 7 8 9 10	cam	OCG:[Data]	OCG:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OCG:08&res=1
	Response	OCG:[Data]						
	Request	QCG						
	Response	OCG:[Data]						
White Balance Mode	Control	OAW:[Data]	0 1 2 3 4 5	ATW AWB A AWB B --- PRESET 3200K PRESET 5600K	cam	OAW:[Data]	OAW:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OAW:1&res=1 ATW variable range is from 2800k to 6500K
	Response	OAW:[Data]						
	Request	QAW	0 1 2 3 4 5	ATW --- AWB A AWB B PRESET 3200K PRESET 5600K				
	Response	OAW:[Data]						
AWB	Control	OWS	-	-	cam	OWS ER3:OWS	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OWS&res=1 See Capter.6 for AWB execution sequence
	Response	OWS						
	Request	-						
	Response	-						
ABB	Control	OAS	-	-	cam	ER3:OAS	-	UE5 does not ABB function, ABB cannot be executed and can not get return errors
	Response	OAS						
	Request	-						
	Response	-						
Detail	Control	ODT:[Data]	0 1 2 3	0 1 2 3	cam	ODT:[Data]	ODT:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=ODT:1&res=1
	Response	ODT:[Data]						
	Request	QDT						
	Response	ODT:[Data]						
Contrast	Control	OSD:50:[Data]	0 1 2 3 4	0 1 2 3 4	cam	OSD:50:[Data]	OSD:50:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:50:1&res=1
	Response	OSD:50:[Data]						
	Request	QSD:50						
	Response	OSD:50:[Data]						
DRS	Control	OSE:33:[Data]	0 1	Off On	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]						
	Request	QSE:33						
	Response	OSE:33:[Data]						
Back Light COMP.	Control	OSE:73:[Data]	0 1	Off On	cam	OSE:73:[Data]	OSE:73:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:73:1&res=1
	Response	OSE:73:[Data]						
	Request	QSE:73						
	Response	OSE:73:[Data]						
DNR	Control	OSD:3A:[Data]	00 01 02	Off Low High	cam	OSD:3A:[Data]	OSD:3A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:3A:01&res=1
	Response	OSD:3A:[Data]						
	Request	QSD:3A						
	Response	OSD:3A:[Data]						

System

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Frequency	Control	OSE:77:[Data]	0 1 4	59.94Hz 50Hz 60Hz	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]						
	Request	QSE:77						
	Response	OSE:77:[Data]						
Format	Control	OSA:87:[Data]	0h 1h 2h 10h 11h 14h 15h 17h 18h 19h 1Ah 1Fh 20h 24h 25h	720/60p 720/59.94p 720/50p 1080/59.94p 1080/50p 1080/29.97p 1080/25p 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/60p 1080/60p 2160/30p 1080/30p	cam	OSA:87:[Data]	OSA:87:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:87:1&res=1 [50Hz] 2160/50p, 2160/25p, 1080/50p, 1080/25p, 720/50p, [59.94Hz] 2160/59.94p, 2160/29.97p, 1080/59.94p, 1080/29.97p, 720/59.94p, [60Hz] 2160/60p, 2160/30p, 1080/60p, 1080/30p, 720/60p,
	Response	OSA:87:[Data]						
	Request	QSA:87						
	Response	OSA:87:[Data]						
Install Position	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]						
Mirror	Control	OSJ:81:[Data]	0 1	OFF ON	cam	OSJ:81:[Data]	OSJ:81:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:81:1&res=1
	Response	OSJ:81:[Data]						
	Request	QSJ:81						
	Response	OSJ:81:[Data]						

command name	Category	command	Data value	Setting	Command 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]						
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]						
Tally Information	Control	-	[Data1] 0 1 [Data2] 0 [Data3] 0 1 [Data4] 0 1 [Data5] 0 [Data6] 0 1 [Data7] 0 1 [Data8] 0 [Data9] 0 1	[Data1] R Tally LED Off RTally LED On [Data2] Reserved [Data3] Command(#DA/TLR) Off Command(#DA)/TLR On [Data4] G Tally LED Off G Tally LED On [Data5] Reserved [Data6] Command(TLG) Off Command(TLG) On [Data7] Y Tally LED Off T Tally LED On [Data8] Reserved [Data9] Command(TLY) Off Command(TLY) 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 When #DA and #TAE change, if #TAA also changes, an update notification is sent
	Response	-						
	Request	#TAA						
	Response	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]						

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Wireless ID	Control	#RID[Data]	0 1 2 3	01 02 03 04	ptz	rID[Data]	rID[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RID1&res=1
	Response	rID[Data]						
	Request	#RID						
	Response	rID[Data]						
Wireless Control	Control	#WLC[Data1]	0 1	Disable Enable	ptz	wLC[Data1]	wLC[Data1]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23WLC1&res=1
	Response	wLC[Data1]						
	Request	#WLC						
	Response	wLC[Data1]						
OSD Off during R-Tally	Control	OSE:75:[Data]	0 1	OFF ON	cam	OSE:75:[Data]	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]						
Framing Tally Color	Control	OSM:41:[Data]	0 3	Amber Yellow	cam	OSM:41:[Data]	OSM:41:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:41:0&res=1
	Response	OSM:41:[Data]						
	Request	QSM:41						
	Response	OSM:41:[Data]						
COLORBAR/CAMERA	Control	DCB:[Data]	0 1	Camera Color Bar	cam	DCB:[Data]	OBR:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=DCB:1&res=1
	Response	DCB:[Data]						
	Request	QBR						
	Response	OBR:[Data]						
Mic	Control	OSA:DO:[Data]	0 1	OFF ON	cam	OSA:DO:[Data]	OSA:DO:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:DO:1&res=1
	Response	OSA:DO:[Data]						
	Request	QSA:DO						
	Response	OSA:DO:[Data]						

Maintenance

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Language	Control	OSJ:82:[Data]	0 1 2	English Japanese Chinese	cam	OSJ:82:[Data]	OSJ:82:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:82:1&res=1
	Response	OSJ:82:[Data]						
	Request	QSJ:82						
	Response	OSJ:82:[Data]						
FW VERSION	Control	-	-	VXX.XX ※example: V00.06	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSV&res=1
	Response							
	Request	QSV						
	Response	OSV:[Data1]						

OSD

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
MENU	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 SW	Control	DPG:[Data]	1 (no value)	Cancel Cancel	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DPG&res=1
	Response	DPG:[Data]						
	Request	-						
	Response	-						
ITEM SW	Control	DIT:[Data]	1 (no value)	Enter Enter	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DIT&res=1
	Response	DIT:[Data]						
	Request	-						
	Response	-						
YES SW	Control	DUP:[Data]	1 (no value)	UP UP	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DUP&res=1
	Response	DUP:[Data]						
	Request	-						
	Response	-						
NO SW	Control	DDW:[Data]	1 (no value)	DOWN DOWN	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DDW&res=1
	Response	DDW:[Data]						
	Request	-						
	Response	-						
RIGHT SW	Control	DRT:[Data]	1 (no value)	RIGHT RIGHT	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DRT&res=1
	Response	DRT:[Data]						
	Request	-						
	Response	-						
LEFT SW	Control	DLT:[Data]	1 (no value)	LEFT LEFT	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DLT&res=1
	Response	DLT:[Data]						
	Request	-						
	Response	-						

Pan/Tilt

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Pan/Tilt Absolute Position Control	Control	#APC[Data1][Data2]	[Data1] 8000h [Data2] 8000h	[Data1] Pan Position Center [Data2] Tilt Position Center	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23APC80008000&res=1 Zoom moves to Wide end
	Response	aPC[Data1][Data2]						
	Request	-						
	Response	-						
Pan Speed Control	Control	#P[Data]	01-07 18-33 34-49 50 51-66 67-82 83-99	Left Max. Speed Left Mid. Speed Left Min. Speed Pan Stop Right Min. Speed Right Mid. Speed Right Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23P70&res=1
	Response	pS[Data]						
	Request	-						
	Response	-						
Tilt Speed Control	Control	#T[Data]	01-07 18-33 34-49 50 51-66 67-82 83-99	Down Max. Speed Down Mid. Speed Down Min. Speed Tilt Stop UP Min. Speed UP Mid. Speed UP Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23T70&res=1
	Response	tS[Data]						
	Request	-						
	Response	-						
Pan Tilt Speed Control	Control	#PTS[Data1][Data2]	[Data1] 01-07 18-33 34-49 50 51-66 67-82 83-99 [Data2] 01-07 18-33 34-49 50 51-66 67-82 83-99	[Data1] Left Max. Speed Left Mid. Speed Left Min. Speed Pan Stop Right Min. Speed Right Mid. Speed Right Max. Speed [Data2] Down Max. Speed Down Mid. Speed Down Min. Speed Tilt Stop UP Min. Speed UP Mid. Speed UP Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTS7070&res=1
	Response	pTS[Data1][Data2]						
	Request	-						
	Response	-						

Lens

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
Zoom Position Control	Control	#AXZ[Data]	555h	Wide	ptz	-	axz555	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXZ555&res=1 Zoom moves to Wide end
	Response	axz[Data]						
	Request	#AXZ						
	Response	axz[Data]						
Zoom Speed Control	Control	#Z[Data]	01-25 26-49 50 51-74 75-99	Wide Max. Speed Wide Min. Speed Zoom Stop Tele Min. Speed Tele Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23Z70&res=1
	Response	zS[Data]						
	Request	-						
	Response	-						
Focus Position Control	Control	#AXF[Data]	555h	FIX	ptz	-	axf555	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXF555&res=1 Respond normally to the control, but the actual operation does not change. Respond to queries with fixed values
	Response	axf[Data]						
	Request	#AXF						
	Response	axf[Data]						
IRIS AUTO/MANUAL	Control	ORS:[Data]	1	Auto	cam	-	ORS:1	http://192.168.0.10/cgi-bin/aw_cam?cmd=ORS:1&res=1 Respond with a fixed value
	Response	ORS:[Data]						
	Request	QRS						
	Response	ORS:[Data]						
Iris Control	Control	#AXI[Data]	555h	FIX	ptz	-	axi555	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXI555&res=1 Respond normally to the control, but the actual operation does not change. Respond to queries with fixed values
	Response	axi[Data]						
	Request	#AXI						
	Response	axi[Data]						
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]						
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	IPI[Data1][Data2][Data3]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LPI&res=1 [Data1] Wide (x1 zoom) corresponds to 555h, Tele (x5 zoom) corresponds to FFFh. Values for [Data1] can be assigned linearly between 555h and FFFh. [Data2] fixed 555 [Data3] fixed 555
	Response	-						
	Request	#LPI						
	Response	IPI[Data1][Data2][Data3]						
LDC	Control	OSJ:84:[Data]	0 1	Off On	cam	OSJ:84:[Data]	OSJ:84:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:84:1&res=1
	Response	OSJ:84:[Data]						
	Request	QSJ:84						
	Response	OSJ:84:[Data]						
POWER ON POSITION	Control	OSJ:45:[Data]	1 2 3	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]						
P. ON PRESET NO.	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]						
MAX DIGITAL ZOOM	Control	OSE:7A:[Data]	03 05	3x 5x	cam	OSE:7A:[Data]	OSE:7A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7A:10&res=1 Same setting as GROUP FRAMING MAX ZOOM (OSM:A1).
	Response	OSE:7A:[Data]						
	Request	QSE:7A						
	Response	OSE:7A:[Data]						

Preset

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
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	–						
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	–						
Preset completion notification	Control	–	00 – 99	Preset001 – Preset100	ptz	q[Data]	–	
	Response	q[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	–						
Request Latest Recall Preset No.	Control	–	00 – 99	Preset001 – Preset100	ptz	s[Data]	–	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23S&res=1
	Response	–						
	Request	#S						
	Response	s[Data]						
Preset Entry Confirmation	Control	–	[Data1] 00h – 02h [Data2] 0000000000h – FFFFFFFFFh (bit0) 0 1 (bit1) 0 1 – (39bit) 0 1	[Data1] multiple (each 40 Presert No) [Data2] PRESET No.(Data1*40 + 1) No Entry Entry PRESET No.(Data1*40 + 2) No Entry Entry – PRESET No.(Data1*40 + 40) No Entry Entry	ptz	pE[Data1][Data2]	pE00[Data2] pE01[Data2] pE02[Data2]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PE00&res=1
	Request	#PE[Data1]						
	Response	pE[Data1][Data2]						

See Capter.6 for Preset sequence

AI Function

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
AI FUNCTION FUNCTIONALITY	Control	OSM:98:[Data]	0 1	DISABLE ENABLE	cam	OSM:98:[Data]	OSM:98:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:98:0&res=1
	Response	OSM:98:[Data]						
	Request	QSM:98						
	Response	OSM:98:[Data]						
GROUP FRAMING FRAMING CONTROL	Control	OSM:99:[Data]	0 1	STOP START	cam	OSM:99:[Data]	OSM:99:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:99:0&res=1
	Response	OSM:99:[Data]						
	Request	QSM:99						
	Response	OSM:99:[Data]						
GROUP FRAMING FRAMING STATUS	Control	-	0 1 2 3 4 5	NOT FRAMING FRAMING LOST PRESET FRAMING 1st PRESET FRAMING 2nd PRESET FRAMING 3rd	cam	OSM:9A:[Data]	OSM:9A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:9A:0&res=1
	Response	-						
	Request	QSM:9A						
	Response	OSM:9A:[Data]						
GROUP FRAMING NUMBER OF DETECTED	Control	-	00h - 63h	0 - 99	cam	OSM:9B:[Data]	OSM:9B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:9B:80&res=1
	Response	-						
	Request	QSM:9B						
	Response	OSM:9B:[Data]						
GROUP FRAMING FRAMING SENSITIVITY	Control	OSM:9C:[Data]	7Eh - 80h - 82h	-2 - 0 - +2	cam	OSM:9C:[Data]	OSM:9C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:9C:80&res=1
	Response	OSM:9C:[Data]						
	Request	QSM:9C						
	Response	OSM:9C:[Data]						
GROUP FRAMING HOME POSITION	Control	OSM:9D:[Data]	0 1 2 3 4	PRESET 1 PRESET 2 PRESET 3 NONE WIDE	cam	OSM:9D:[Data]	OSM:9D:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:9D:0&res=1
	Response	OSM:9D:[Data]						
	Request	QSM:9D						
	Response	OSM:9D:[Data]						
GROUP FRAMING 1st Preset Frame	Control	OSM:9E:[Data]	0 1	OFF ON	cam	OSM:9E:[Data]	OSM:9E:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:9E:0&res=1
	Response	OSM:9E:[Data]						
	Request	QSM:9E						
	Response	OSM:9E:[Data]						
GROUP FRAMING 2nd Preset Frame	Control	OSM:9F:[Data]	0 1	OFF ON	cam	OSM:9F:[Data]	OSM:9F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:9F:0&res=1
	Response	OSM:9F:[Data]						
	Request	QSM:9F						
	Response	OSM:9F:[Data]						
GROUP FRAMING 3rd Preset Frame	Control	OSM:A0:[Data]	0 1	OFF ON	cam	OSM:A0:[Data]	OSM:A0:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A0:0&res=1
	Response	OSM:A0:[Data]						
	Request	QSM:A0						
	Response	OSM:A0:[Data]						
GROUP FRAMING MAX ZOOM	Control	OSM:A1:[Data]	3 5	3x 5x	cam	OSM:A1:[Data]	OSM:A1:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A1:0&res=1
	Response	OSM:A1:[Data]						
	Request	QSM:A1						
	Response	OSM:A1:[Data]						
GROUP FRAMING AUTO START	Control	OSM:A2:[Data]	0 1	DISABLE ENABLE	cam	OSM:A2:[Data]	OSM:A2:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A2:0&res=1
	Response	OSM:A2:[Data]						
	Request	QSM:A2						
	Response	OSM:A2:[Data]						
AI FUNCTION OUTPUT USB	Control	OSM:A3:[Data]	0 1	FRAMING FULL	cam	OSM:A3:[Data]	OSM:A3:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A3:0&res=1
	Response	OSM:A3:[Data]						
	Request	QSM:A3						
	Response	OSM:A3:[Data]						
AI FUNCTION OUTPUT HDMI	Control	OSM:A4:[Data]	0 1	FRAMING FULL	cam	OSM:A4:[Data]	OSM:A4:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A4:0&res=1
	Response	OSM:A4:[Data]						
	Request	QSM:A4						
	Response	OSM:A4:[Data]						
AI FUNCTION OUTPUT IP STREAMING	Control	OSM:A5:[Data]	0 1	FRAMING FULL	cam	OSM:A5:[Data]	OSM:A5:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A5:0&res=1
	Response	OSM:A5:[Data]						
	Request	QSM:A5						
	Response	OSM:A5:[Data]						
AI FUNCTION OUTPUT WEB	Control	OSM:A6:[Data]	0 1	FRAMING FULL	cam	OSM:A6:[Data]	OSM:A6:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A6:0&res=1
	Response	OSM:A6:[Data]						
	Request	QSM:A6						
	Response	OSM:A6:[Data]						

AI FUNCTION PRESET FRAMING AREA 1ST	Control	OSM:A7:[Data1]:[Data2]:[Data3]:[Data4]	[Data1] 000h – FFFh [Data2] 000h – FFFh [Data3] 000h – FFFh [Data4] 000h – FFFh	[Data1]UPPER LEFT(H) 0 – 4095 [Data2]UPPER LEFT(V) 0 – 4095 [Data3]BOTTOM RIGHT(H) 0 – 4095 [Data4]BOTTOM RIGHT(V) 0 – 4095	cam	OSM:A7:[Data1]:[Data2]:[Data3]:[Data4]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A7:000:000:FFF:FFF&res=1 Controls the size and position of the PRESET FRAMING frame configured via the Web UI. - Full view is defined as 1280x720 (top-left: (0,0), bottom-right: (1280,720)). - Aspect ratio is fixed to 16:9. Available size depends on the Max Zoom value. - [Data3] and [Data4] are automatically recalculated from the specified values due to these constraints.
	Response	OSM:A7:[Data1]:[Data2]:[Data3]:[Data4]						
	Request	QSM:A7						
	Response	OSM:A7:[Data1]:[Data2]:[Data3]:[Data4]						
AI FUNCTION PRESET FRAMING AREA 2ND	Control	OSM:A8:[Data1]:[Data2]:[Data3]:[Data4]	[Data1] 000h – FFFh [Data2] 000h – FFFh [Data3] 000h – FFFh [Data4] 000h – FFFh	[Data1]UPPER LEFT(H) 0 – 4095 [Data2]UPPER LEFT(V) 0 – 4095 [Data3]BOTTOM RIGHT(H) 0 – 4095 [Data4]BOTTOM RIGHT(V) 0 – 4095	cam	OSM:A8:[Data1]:[Data2]:[Data3]:[Data4]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A8:000:000:FFF:FFF&res=1 Controls the size and position of the PRESET FRAMING frame configured via the Web UI. - Full view is defined as 1280x720 (top-left: (0,0), bottom-right: (1280,720)). - Aspect ratio is fixed to 16:9. Available size depends on the Max Zoom value. - [Data3] and [Data4] are automatically recalculated from the specified values due to these constraints.
	Response	OSM:A8:[Data1]:[Data2]:[Data3]:[Data4]						
	Request	QSM:A8						
	Response	OSM:A8:[Data1]:[Data2]:[Data3]:[Data4]						
AI FUNCTION PRESET FRAMING AREA 3RD	Control	OSM:A9:[Data1]:[Data2]:[Data3]:[Data4]	[Data1] 000h – FFFh [Data2] 000h – FFFh [Data3] 000h – FFFh [Data4] 000h – FFFh	[Data1]UPPER LEFT(H) 0 – 4095 [Data2]UPPER LEFT(V) 0 – 4095 [Data3]BOTTOM RIGHT(H) 0 – 4095 [Data4]BOTTOM RIGHT(V) 0 – 4095	cam	OSM:A9:[Data1]:[Data2]:[Data3]:[Data4]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:A9:000:000:FFF:FFF&res=1 Controls the size and position of the PRESET FRAMING frame configured via the Web UI. - Full view is defined as 1280x720 (top-left: (0,0), bottom-right: (1280,720)). - Aspect ratio is fixed to 16:9. Available size depends on the Max Zoom value. - [Data3] and [Data4] are automatically recalculated from the specified values due to these constraints.
	Response	OSM:A9:[Data1]:[Data2]:[Data3]:[Data4]						
	Request	QSM:A9						
	Response	OSM:A9:[Data1]:[Data2]:[Data3]:[Data4]						

Others

command name	Category	command	Data value	Setting	Command type	Update notification	camdata.html	Usage example / Remarks
MODEL NUMBER	Control	-		AW-UE5	cam	-	OID:AW-UE5	http://192.168.0.10/cgi-bin/aw_cam?cmd=QID&res=1
	Response	-						
	Request	QID						
	Response	OID:[Data]						
PowerON, Standby	Control	#O[Data]	0 1	Standby PowerOn	ptz	p[Data]	p[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23O0&res=1
	Response	p[Data]						
	Request	#O						
	Response	p[Data]						