HD/4K Multipurpose Camera Interface Specifications

AK-UBX100

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Panasonic Entertainment & Communication Co. Ltd.

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1.Introduction

This manual describes the external interface specifications which are applicable when the AK-UBX100 is operated.

2.Configuration outline

This manual has the following general configuration.

① Overview of the external interface

It is possible to control such as 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.

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 AK-UBX100 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 AK-UBX100.
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 controled by serial communication and IP communication respectively

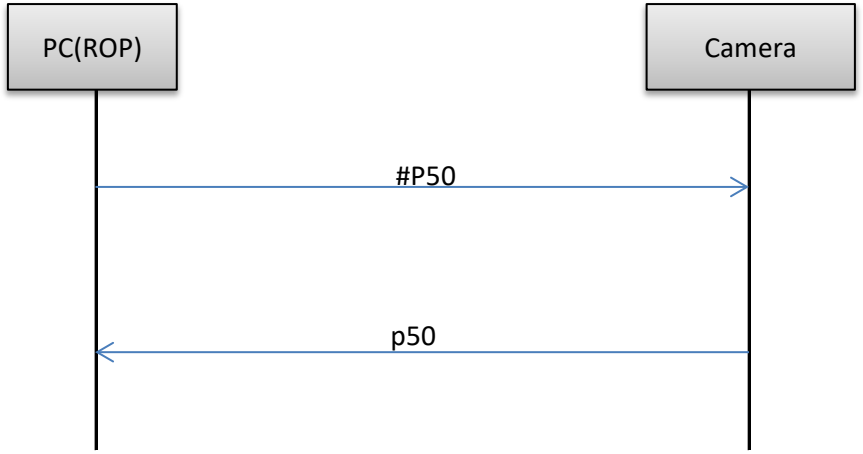
4-1.Serial communication

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

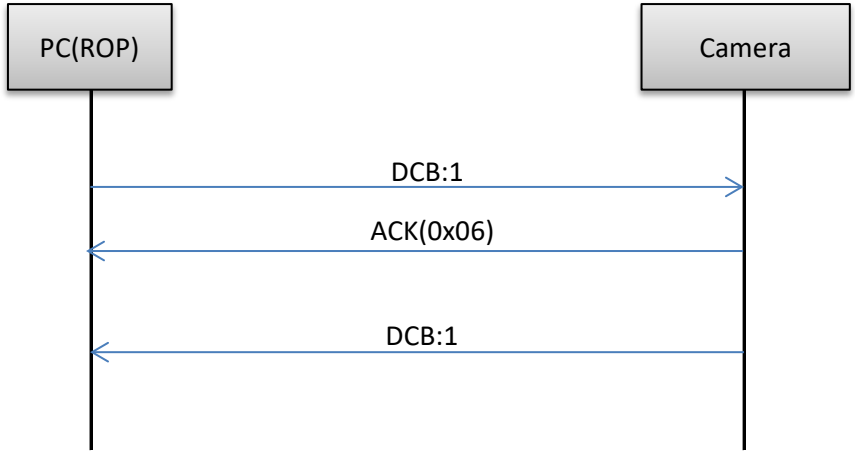
Method	Half Duplex
Commnunication Speed	9600bps, 38400bps, 115200bps
Data bit	8bit
Stop bit	1bit
Parity	None
Flow contorol	None

▼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 16 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”

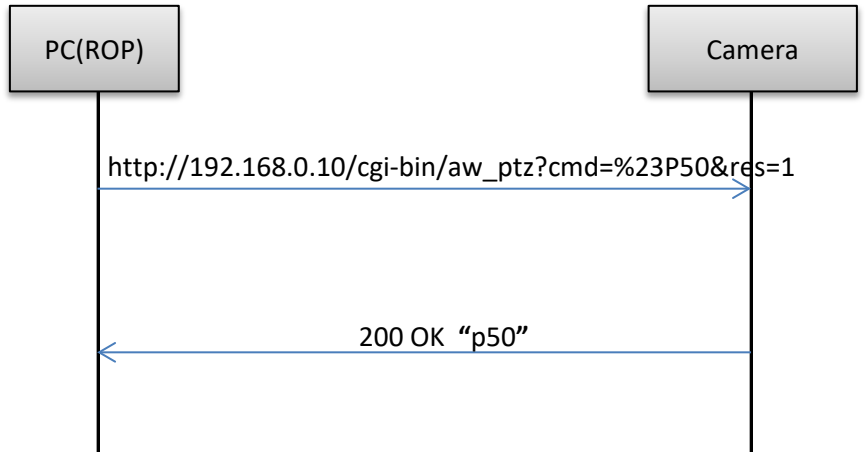
▼Receive format

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”

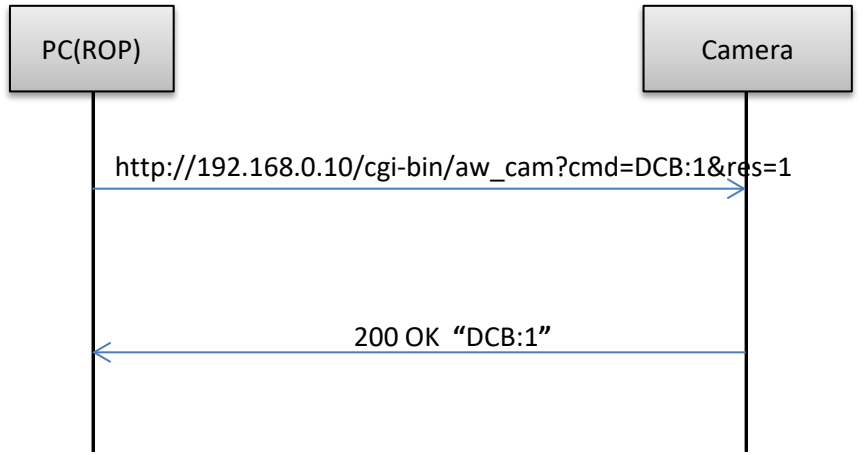
▼Receive format

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 16 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 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.

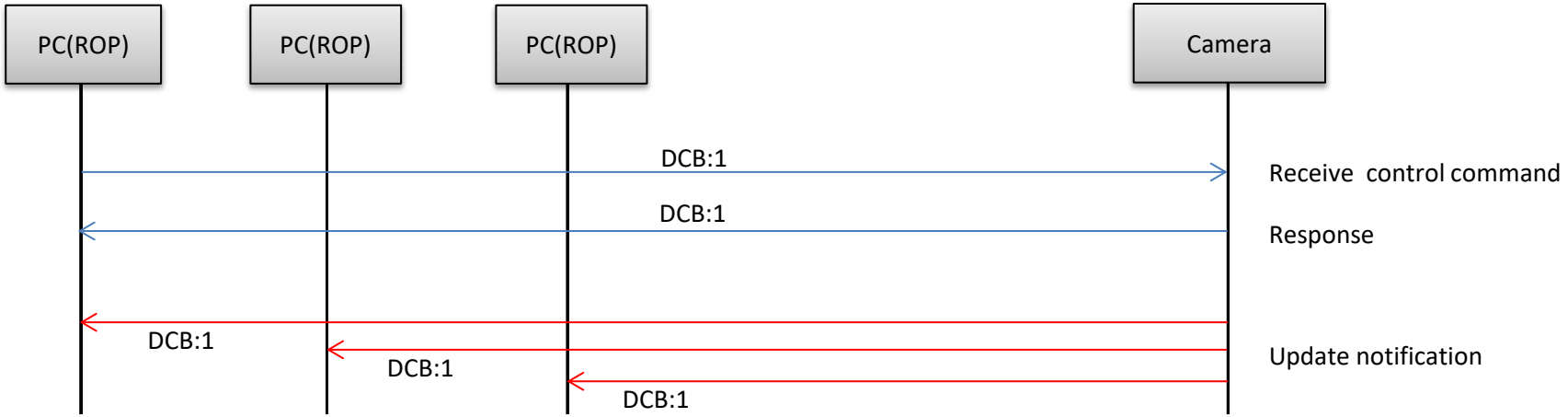
B) With a control command that takes time to be processed, the HTTP response is returned as soon as the command has been received, and separate notification of the processing result is given as soon as the processing is completed.

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 incicated as update notifications. See Chapter:9 for more detail

All update notification will be sent when the parameters of multiple commands have changed due to command control.

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)

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]

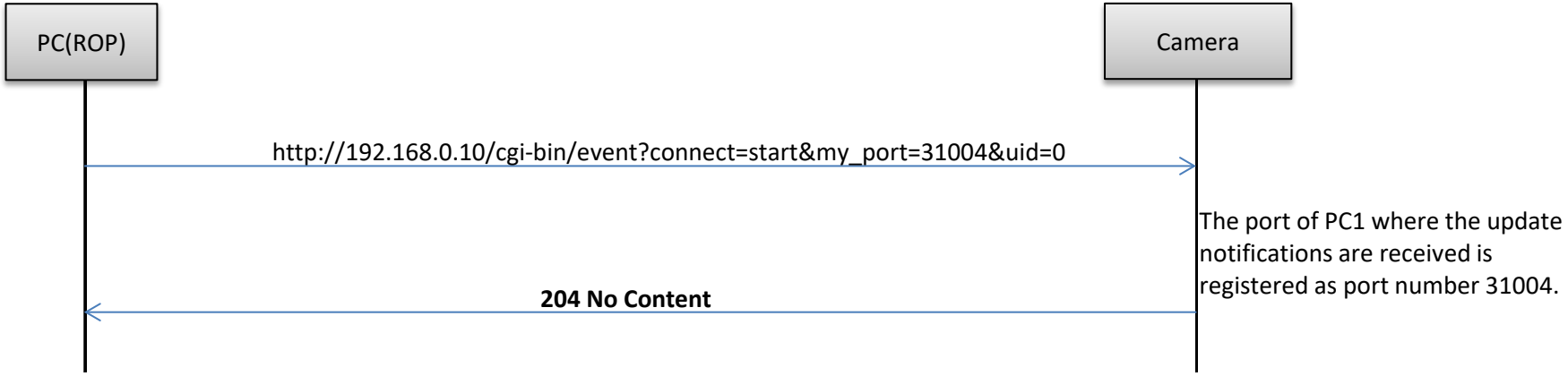
ex2）Color bar： On
[CR][LF]DCB:1[CR][LF]

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

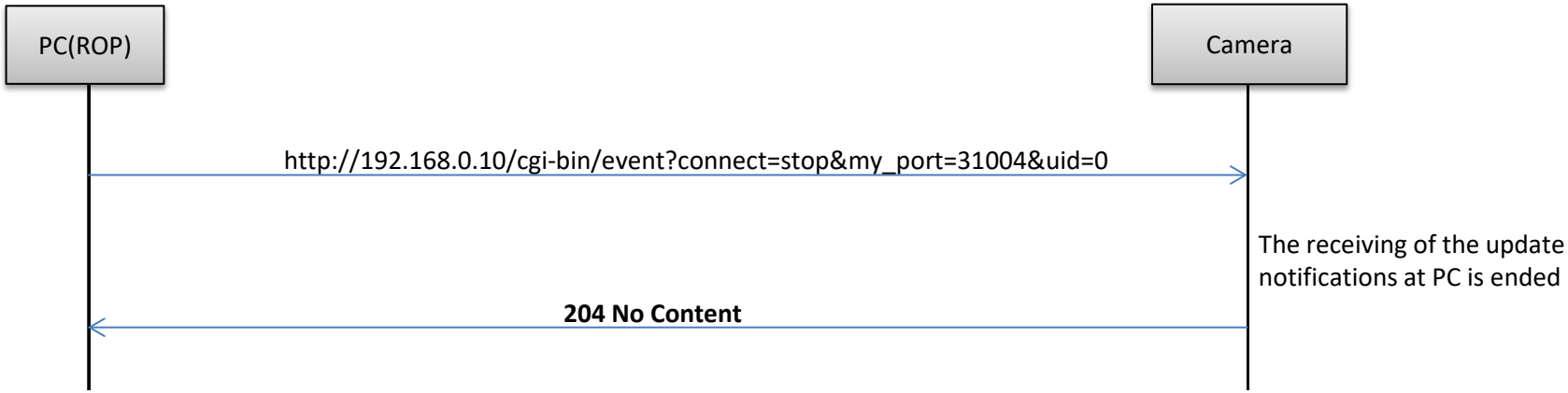
http://192.168.0.10/cgi-bin/event?connect=stop&my_port=31004&uid=0

※ my_port … Number of the TCP port on the terminal

【Update notification receive end sequence】

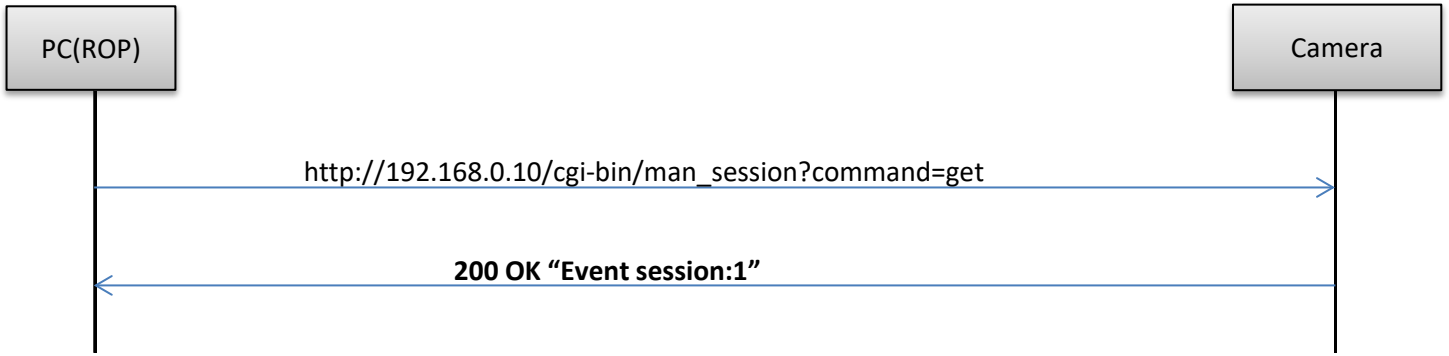
The update notification receive end command is sent from the terminal which has received the update notifications.

“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



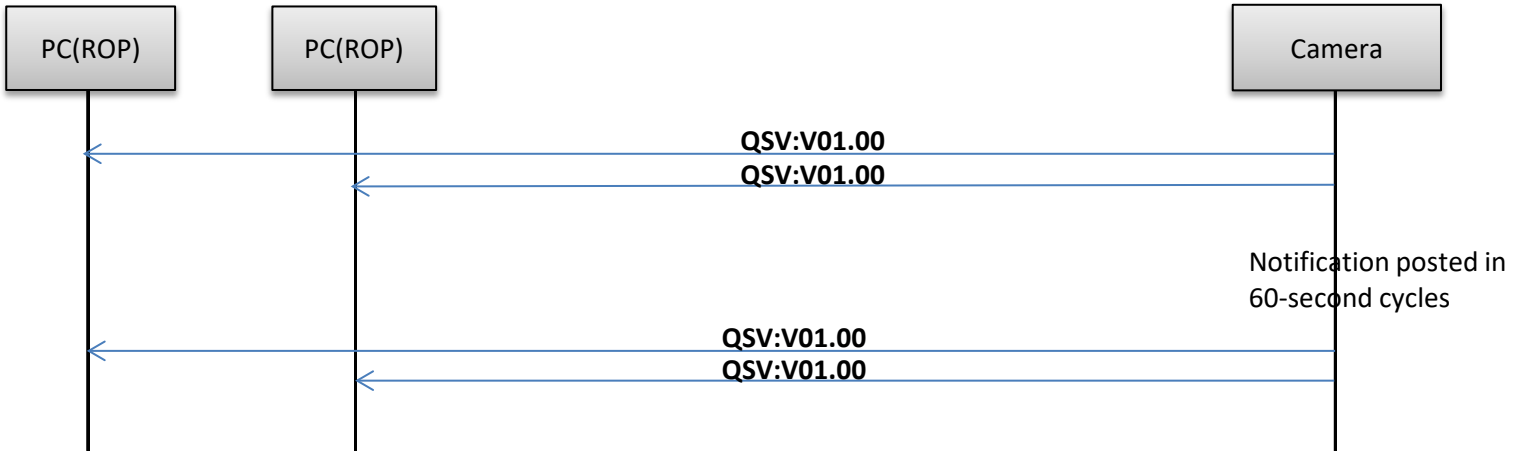
6.Special sequences

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.

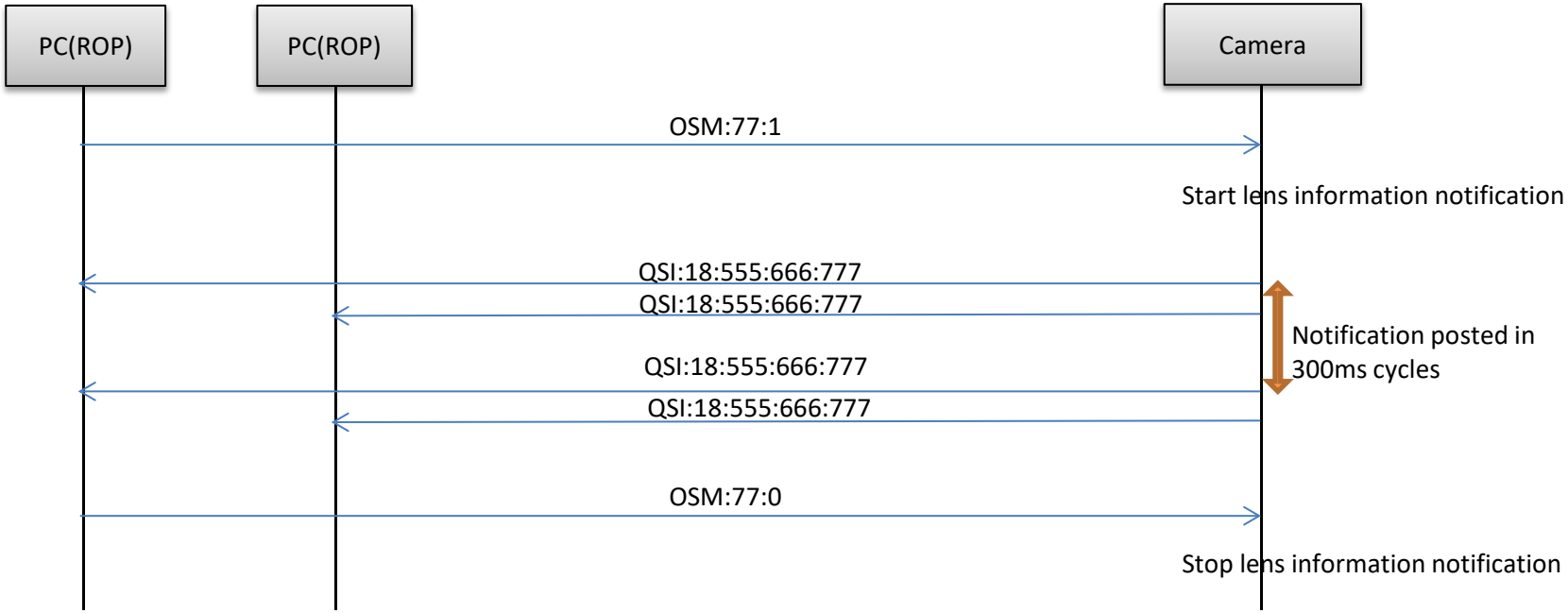


6-2.Lens Information

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

Notification	Lens information
QSI:18:[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 (OSM:77:1).
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 (OSM:77:0).



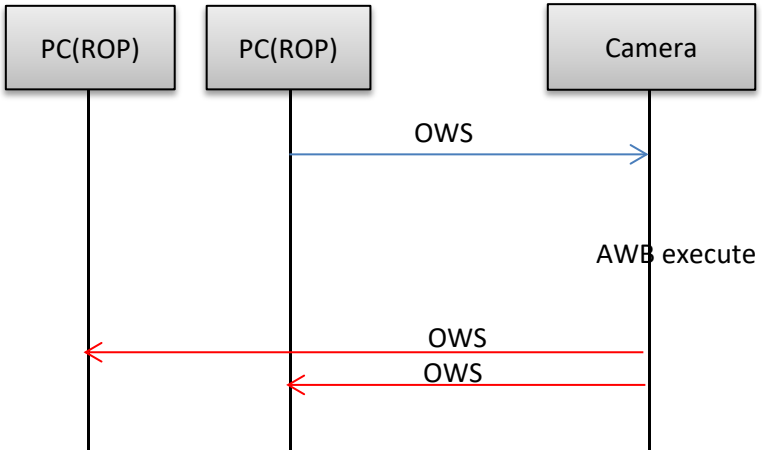
6-3.AWB/ABB execution

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

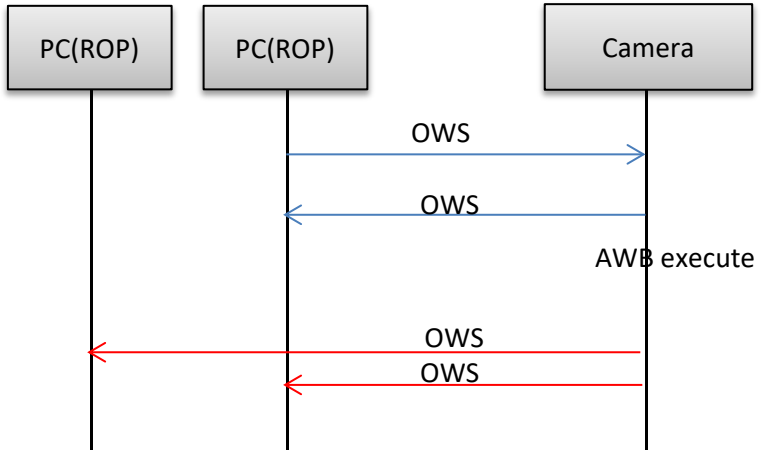
Notification	Remarks
OWS	AWB execution successful
OAS	ABB execution successful

【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.

Serial



IP



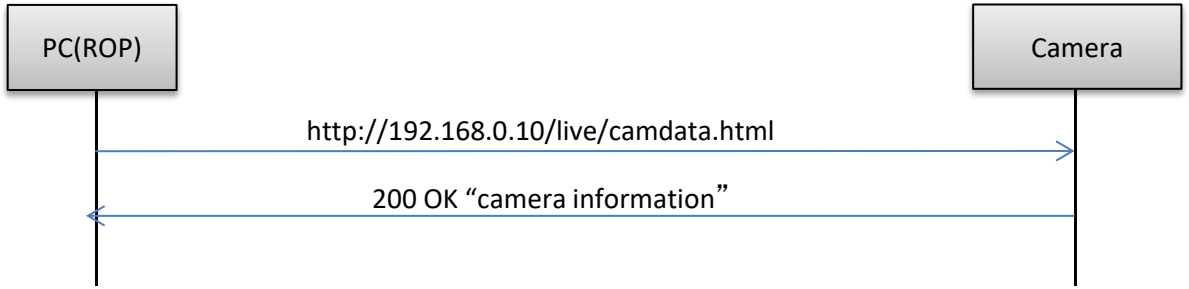
6-4.Camera information batch acquisition

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

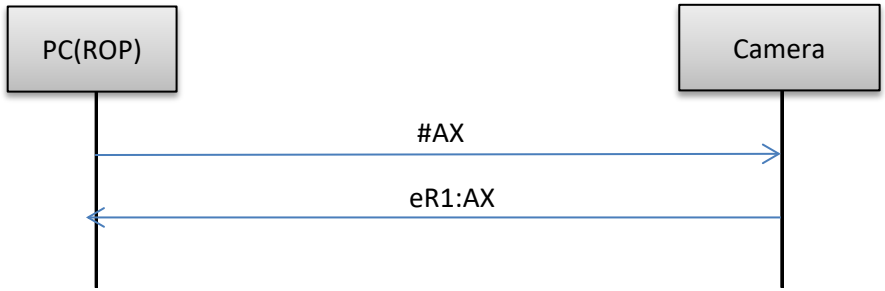
The three errors ER1, ER2 and ER3 below are returned in response to control or query commands by the camera.

In the case of Pan/Tilt control command

▼ER1 (unsupported command)

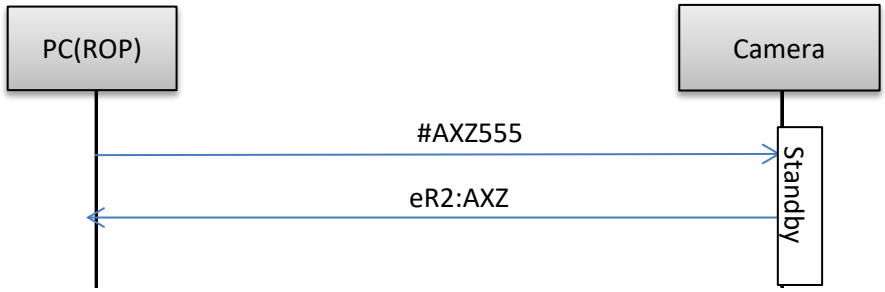
This error is generated when a command which is not supported by the camera has been received by the camera

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.

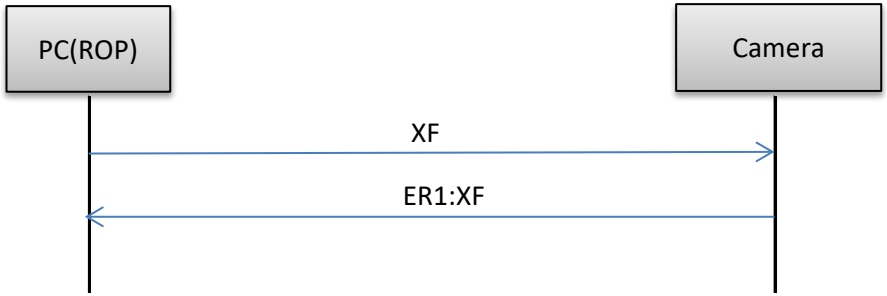


In the case of Camera control command

▼ER1 (unsupported command)

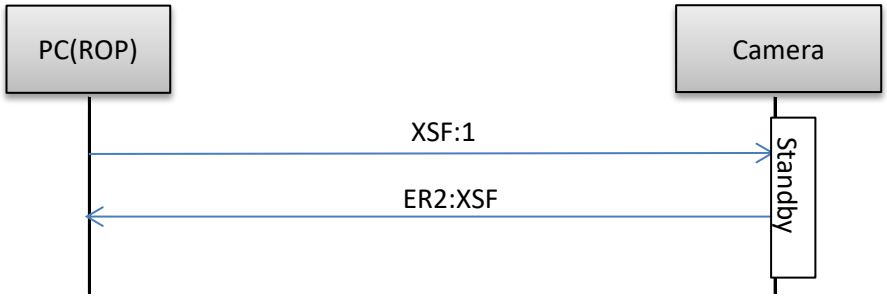
This error is generated when a command which is not supported by the camera has been received by the camera

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

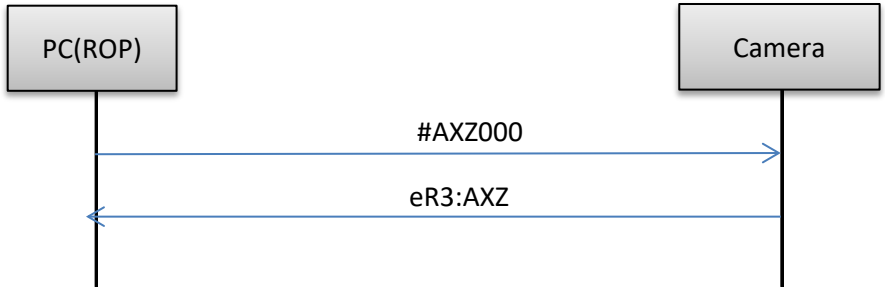


▼ER2 (busy status)

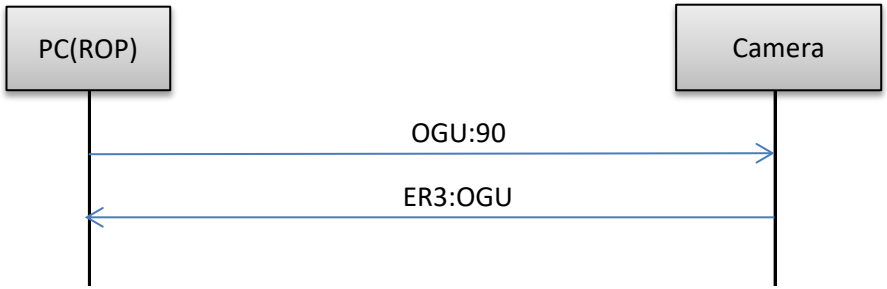
This error is generated during Standby (Power Off) or at other times when the camera is in the busy status.



▼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.AK-UBX100 Menu-Command Correspondance Table

Menu	Command	Remarks	SCENE	USER	REFERENCE
BASIC CONFIG					
FREQUENCY	OSE:77	The unit is automatically rebooted after changing settings.			
FORMAT	OSA:87				
FPS SW	OSL:DC	Not available when the format is other than 2160/59.94p or 1080/59.94p.			
FPS	OSL:DD	Not available when the format is other than 2160/59.94p or 1080/59.94p.			
OPT MODE	OSL:00	The unit is automatically rebooted after changing settings.			
SFP FEC	–				
V-LOG	OSJ:56	Not available when HDR is ON.		○	○
V-LOG PAINT SW	OSL:01	Not available when V-LOG is OFF.		○	○
HDR	OSI:2C	Not available when V-LOG is ON.		○	○
GAMUT	OSL:02	Not available when HDR is OFF.		○	○
SHOOTING MODE	OSI:30			○	○
COLOR BAR SETTING					
COLOR BAR SW	DCB			○	○
COLOR BAR TYPE	OSD:BA			○	○
TALLY	TLR TLG TLY				
FRONT TALLY	OSM:4A			○	○
BACK TALLY	OSM:4B			○	○
FRONT TALLY BRIGHTNESS	OSM:4C			○	○
BACK TALLY BRIGHTNESS	OSM:4D			○	○
TALLY GUARD	OSL:04			○	○
TSL5.0					
INDEX NO.	–			○	○
PORT	–			○	○
SYNC SIGNAL					
REF SIGNAL	OSL:08	BBS/TRI-LEVEL SYNC is fixed when MOIP MODE is OFF.		○	○
GEN-LOCK					
H PHASE-COARSE	OSL:09	Not available when REF SIGNAL is PTP.		○	○
H PHASE-FINE	OSL:0A	Not available when REF SIGNAL is PTP.		○	○
PTP					
CLOCK TYPE	–			○	○
DOMAIN	–			○	○
GMID	–				
BAR ID					
BAR ID	OSD:BE	Not available when SFP+ MODE is ST2110 JPEG XS.		○	○
BRIGHTNESS	OSL:0B			○	○
ID1 POSITION V	OSL:0C			○	○
ID1 POSITION H	OSL:0D			○	○
ID1	OSL:0E			○	○
ID2 POSITION V	OSL:0F			○	○
ID2 POSITION H	OSL:10			○	○
ID2	OSL:11			○	○
OFFSET V	OSL:12			○	○
OFFSET H	OSL:13			○	○
NETWORK					
LAN					
DHCP	–				
IP ADDRESS	–				
SUBNET MASK	–				
DEFAULT GATEWAY	–				
MAC ADDRESS	–				
SET EXECUTE	–				
SFP PRIMARY					
DHCP	–				
IP ADDRESS	–				
SUBNET MASK	–				
DEFAULT GATEWAY	–				
MAC ADDRESS	–				
SET EXECUTE	–				
SFP SECONDARY					
DHCP	–				
IP ADDRESS	–				
SUBNET MASK	–				
DEFAULT GATEWAY	–				
MAC ADDRESS	–				
SET EXECUTE	–				

Menu	Command	Remarks	SCENE	USER	REFERENCE
COMMON SETTING					
DNS					
PRIMARY	–				
SECONDARY	–				
DOMAIN	–				
HTTP PORT	–				
HTTPS PORT	–				
WEB CONNECTION	–				
ROP PORT	–				
ROP AUTH MODE	–				
SET EXECUTE	–				
NTP					
SYNCHRONIZATION WITH NTP	–			○	○
NTP SERVER ADDRESS SETTING	–			○	○
NTP SERVER ADDRESS	–				
NTP PORT	–				
TIME ADJUSTMENT INTERVAL	–			○	○
SET EXECUTE	–				
NMOS				○	○
STATUS	–				
PORT(IS-04)	–				
PORT(IS-05)	–				
RDS IP ADDR	–				
RDS PORT	–				
LABEL SETTING	–			○	○
LABEL PREFIX	–			○	○
DISCOVERY	–			○	○
RDS IP ADDR MANUAL	–				
RDS PORT MANUAL	–				
SET EXECUTE	–				
OUTPUT					
12G SDI OUT1					
OUTPUT SELECT	OSL:DE				
FORMAT SELECT	OSL:DF			○	○
HDR OUTPUT SELECT	OSJ:1F	・Not available when HDR is OFF. ・Not available when OUTPUT SELECT is not CAM. ・HDR(2020) is selectable only when GAMAT is WIDE_G2.		○	○
V-LOG OUTPUT SELECT	OSJ:57	・Not available when V-LOG is OFF. ・Not available when OUTPUT SELECT is not CAM.		○	○
OUTPUT ITEM	OSL:14			○	○
CHAR	OSE:7B			○	○
12G SDI OUT2					
OUTPUT SELECT	OSL:E0				
FORMAT SELECT	OSL:E1			○	○
HDR OUTPUT SELECT	OSL:E2	・Not available when HDR is OFF. ・Not available when OUTPUT SELECT is not CAM. ・HDR(2020) is selectable only when GAMAT is WIDE_G2.		○	○
V-LOG OUTPUT SELECT	OSL:E3	・Not available when V-LOG is OFF. ・Not available when OUTPUT SELECT is not CAM.		○	○
OUTPUT ITEM	OSL:E4			○	○
CHAR	OSE:7B			○	○
HD SDI OUT					
OUTPUT SELECT	OSM:4E				
FORMAT SELECT	OSM:4F			○	○
HDR OUTPUT SELECT	OSJ:22	Not available when HDR is OFF.			
V-LOG OUTPUT SELECT	OSJ:58	Not available when V-LOG is OFF.		○	○
OUTPUT ITEM	OSL:15				
CHAR	OSE:7B			○	○
IP SIGNAL					
START/STOP	–				
STREAMING COMMON					
STREAMING MODE	–			○	○
SET EXECUTE	–				
TIMECODE OVERLAY	–			○	○
HDR/V-LOG MODE	–			○	○
OUTPUT ITEM	OSL:23			○	○
CHAR	OSE:7B			○	○
JPEG(1)					
JPEG TRANSMISSION	–			○	○
IMAGE CAPTURE SIZE	–			○	○
REFRESH INTERVAL	–			○	○
IMAGE QUALITY	–			○	○
SET EXECUTE	–				

Menu	Command	Remarks	SCENE	USER	REFERENCE
JPEG(2)					
JPEG TRANSMISSION	–			○	○
IMAGE CAPTURE SIZE	–			○	○
REFRESH INTERVAL	–			○	○
IMAGE QUALITY	–			○	○
SET EXECUTE	–				
JPEG(3)					
JPEG TRANSMISSION	–			○	○
IMAGE CAPTURE SIZE	–			○	○
REFRESH INTERVAL	–			○	○
IMAGE QUALITY	–			○	○
SET EXECUTE	–				
SRT					
SRT TRANSMISSION	–			○	○
BIT DEPTH	–			○	○
PROFILE TYPE	–			○	○
IMAGE CAPTURE SIZE	–			○	○
CBR/VBR	–			○	○
FRAME RATE	–			○	○
MAX BIT RATE	–			○	○
SET EXECUTE	–				
MODE	–			○	○
DESTINATION URI	–				
DESTINATION PORT	–				
STREAM ID	–				
CLIENT(CALLER)	–				
TTL/HOP LIMIT	–				
LATENCY	–				
ENCRYPTION	–				
PASSPHRASE	–				
SET EXECUTE	–				
NDI HIGH BANDWIDTH					
FORMAT SELECT	OSL:21	Not available when STREAMING MODE is not NDI HIGH BANDWIDTH.		○	○
SOURCE NAME	–				
PROTOCOL	–				
MULTICAST TRANSMIT	–				
ADDRESS	–				
SUBNET	–				
TTL/HOP LIMIT	–				
SET EXECUTE	–				
GROUP	–				
NAME	–				
USE DISCOVERY SERVER	–				
SERVER ADDRESS	–				
SET EXECUTE	–				
ST2110 COMMON					
MOIP MODE	–			○	○
ST2110 PORT	–			○	○
MAIN VIDEO TX	–				
FORMAT	OSL:AA	Not available when MOIP MODE is OFF.		○	○
HDR/V-LOG MODE	OSM:78	Not available when MOIP MODE is OFF.			
MONI VIDEO TX	–				
FORMAT	OSL:AD	Not available when MOIP MODE is OFF.			
HDR/V-LOG MODE	OSM:7A	Not available when MOIP MODE is OFF.			

Menu	Command	Remarks	SCENE	USER	REFERENCE
ST2110 PRIMARY TX					
MAIN VIDEO TX	–				
DEST ADDR	–				
DEST PORT	–				
MAIN JPEG XS VIDEO TX	–				
DEST ADDR	–				
DEST PORT	–				
MONI VIDEO TX	–				
DEST ADDR	–				
DEST PORT	–				
ST2110 SECONDARY TX					
MAIN VIDEO TX	–				
DEST ADDR	–				
DEST PORT	–				
MONI VIDEO TX	–				
DEST ADDR	–				
DEST PORT	–				
PAINT					
AUTO					
AGC	OSL:26		○	○	○
AUTO IRIS	ORS	″ORS″ and ″#D3″ are same command.	○	○	
ATW	OSL:2A		○	○	○
KNEE MODE	OSL:46 OSA:2D	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
GAIN SETTING					
GAIN/ISO MODE	OSL:D1		○	○	○
GAIN	OSL:25 OGU OSL:D2	Not available when AGC is ON.	○	○	○
OFFSET GAIN	OSM:70	・Not available when AGC is ON. ・Not available when ISO mode is active.	○	○	○
AGC	OSL:26		○	○	○
AGC MAX GAIN	OSD:69		○	○	○
IRIS					
AUTO IRIS	ORS		○	○	
WINDOW SELECT	OSJ:02		○	○	
IRIS LEVEL	OSD:48			○	
PEAK RATIO	OSL:29		○	○	
IRIS RANGE	OSM:51			○	
IRIS SPEED	OSL:E5		○	○	
IRIS GAIN	OSM:52			○	
W/B BAL SETTING					
AWB SET	OWS				
ABB SET	OAS				
ATW	OSL:2A		○	○	○
ATW SPEED	OSI:25	Not available when ATW is OFF.	○	○	○
ATW TARGET R	OSJ:0D	Not available when ATW is OFF.	○	○	○
ATW TARGET B	OSJ:0E	Not available when ATW is OFF.	○	○	○
SHOCKLESS WB SW	OSL:2C		○	○	○
SHOCKLESS WB SPEED	OSL:2D		○	○	○
SHUTTER SPEED					
SHUTTER SW	OSG:59		○	○	○
SHUTTER DISP	OSL:D3	Not available when SHUTTER SW is OFF.	○	○	○
SHUTTER MODE	OSG:5A OSJ:03	Not available when SHUTTER SW is OFF.	○	○	○
SHUTTER SPEED	OSJ:06 OSJ:04 OSJ:05 OSL:D4	・Not available when SHUTTER SW is OFF. ・Not available when SHUTTER MODE is SYNCHRO.	○	○	○
SYNCHRO SCAN	OSJ:09 OSJ:07 OSJ:08 OSL:F1	・Not available when SHUTTER SW is OFF. ・Not available when SHUTTER MODE is STEP.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
PEDESTAL					
MASTER PEDESTAL	OSJ:0F	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R PEDESTAL	OSG:4C	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G PEDESTAL	OSG:4D	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B PEDESTAL	OSG:4E	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
PEDESTAL OFFSET	OSJ:11	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CHROMA					
CHROMA LEVEL SW	OSG:93	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CHROMA LEVEL	OSL:B0 OSD:B0	・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when CHROMA LEVEL SW is OFF.	○	○	○
COLOR TEMP SETTING					
COLOR TEMP PRESET					
COLOR TEMP PRE SWITCH	OSM:53	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR TEMP	OSM:54	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R GAIN	OSM:55	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B GAIN	OSM:56	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G AXIS	OSM:57	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR TEMP					
COLOR TEMP	OSJ:4A OSJ:48 OSJ:49	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R GAIN	OSJ:4B	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B GAIN	OSJ:4C	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G AXIS	OSJ:4D	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
RGB GAIN CONTROL SETTING					
G GAIN REL CONTROL SW	OSL:35	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
RGB GAIN PRESET					
R GAIN	OSL:36	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G GAIN	OSL:37	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B GAIN	OSL:38	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
RGB GAIN					
R GAIN	OSL:39	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G GAIN	OSL:3A	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B GAIN	OSL:3B	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
GAIN OFFSET	OSJ:0C	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
FLARE					
FLARE	OSA:11	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MASTER FLARE	OSL:40	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when FLARE is OFF.	○	○	○
R FLARE	OSL:41	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when FLARE is OFF.	○	○	○
G FLARE	OSL:42	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when FLARE is OFF.	○	○	○
B FLARE	OSL:43	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when FLARE is OFF.	○	○	○
GAMMA/BLACK GAMMA					
GAMMA	OSA:0A	・Not available when V-LOG is ON. ・Not available when HDR is ON.	○	○	○
GAMMA MODE SELECT	OSJ:D7	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF.	○	○	○
MASTER GAMMA	OSA:6A	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF.	○	○	○
OFFSET GAMMA	OSM:44	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF.	○	○	○
R GAMMA	OSI:35	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF.	○	○	○
B GAMMA	OSI:36	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF.	○	○	○
BLACK GAMMA	OSA:0B	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF.	○	○	○
MASTER BLACK GAMMA	OSA:07	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF. ・Not available when BLACK GAMMA is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
R BLACK GAMMA	OSA:08	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF. ・Not available when BLACK GAMMA is OFF.	○	○	○
B BLACK GAMMA	OSA:09	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF. ・Not available when BLACK GAMMA is OFF.	○	○	○
BLACK GAMMA RANGE	OSJ:1B	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA is OFF. ・Not available when BLACK GAMMA is OFF.	○	○	○
INITIAL GAMMA	OSL:44	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when GAMMA MODE SELECT is NORMAL, CINEMA1, or CINEMA2. ・Not available when GAMMA is OFF.	○	○	○
KNEE					
KNEE	OSL:45	・Not available when V-LOG is ON. ・Not available when HDR is ON.	○	○	○
KNEE MODE	OSL:46 OSA:2D	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
KNEE MASTER POINT	OSA:20	・Not available when KNEE MODE is AUTO. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
KNEE R POINT	OSA:22	・Not available when KNEE MODE is AUTO. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
KNEE B POINT	OSA:23	・Not available when KNEE MODE is AUTO. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
KNEE MASTER SLOPE	OSA:24	・Not available when KNEE MODE is AUTO. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
KNEE R SLOPE	OSA:26	・Not available when KNEE MODE is AUTO. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
KNEE B SLOPE	OSA:27	・Not available when KNEE MODE is AUTO. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
AUTO KNEE RESPONSE	OSG:97	・Not available when KNEE MODE is MANUAL. ・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when KNEE is OFF.	○	○	○
WHITE CLIP					
WHITE CLIP	OSA:2E	・Not available when V-LOG is ON. ・Not available when HDR is ON.	○	○	○
MASTER WHITE CLIP LEVEL	OSA:2A	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when WHITE CLIP is OFF.	○	○	○
R WHITE CLIP LEVEL	OSL:47	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when WHITE CLIP is OFF.	○	○	○
B WHITE CLIP LEVEL	OSL:48	・Not available when V-LOG is ON. ・Not available when HDR is ON. ・Not available when WHITE CLIP is OFF.	○	○	○
HI-COLOR	OSL:49	・Not available when V-LOG is ON. ・Not available when HDR is ON.	○	○	○
HI-COLOR LEVEL	OSL:4A	・Not available when V-LOG is ON. ・Not available when HDR is ON.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
DRS					
DRS	OSA:0D	・Not available when V-LOG is ON. ・Not available when the format is in 180p/150p/240p/200p mode.	○	○	○
EFFECT DEPTH	OSL:4B	・Not available when V-LOG is ON. ・Not available when the format is in 180p/150p/240p/200p mode.	○	○	○
DETAIL SETTING					
DETAIL	ODT	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MASTER DETAIL	OSA:30	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
PEAK FREQUENCY	OSG:30	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CRISP	OSD:22	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DETAIL GAIN(+)	OSA:38	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DETAIL GAIN(-)	OSA:39	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DETAIL CLIP(+)	OSG:40	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DETAIL CLIP(-)	OSG:41	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
KNEE APERTURE LEVEL	OSG:3F	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DETAIL KNEE	OSL:4C	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LEVEL DEPENDENT SW	OSG:3E	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LEVEL DEPENDENT	OSD:26	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DARK DETAIL SW	OSL:4D	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DARK DETAIL	OSL:4E	・Not available whenTEST SAW is ON. ・Not available when DETAIL is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
DOWNCON SETTING					
CHROMA					
CHROMA LEVEL SW	OSL:4F	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CHROMA LEVEL	OSL:50	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DETAIL SETTING					
DETAIL	OSJ:14	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MASTER DETAIL	OSJ:15	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
H DETAIL LEVEL	OSL:51	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
V DETAIL LEVEL	OSJ:17	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
PEAK FREQUENCY	OSL:52	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
V DETAIL FREQUENCY	OSL:53	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
CRISP	OSL:54	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
DETAIL CLIP(+)	OSL:57	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
DETAIL CLIP(-)	OSL:58	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
KNEE APERTURE LEVEL	OSL:5A	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
DETAIL KNEE	OSL:5B	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
LEVEL DEPENDENT SW	OSL:5C	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
LEVEL DEPENDENT	OSL:5D	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
DARK DETAIL SW	OSL:5E	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
DARK DETAIL	OSL:5F	・Not available when FORMAT is not 4K format. ・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when DETAIL is OFF.	○	○	○
SKIN TONE DETAIL SETTING					
SKIN TONE DETAIL	OSL:60	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MEMORY SELECT	OSL:B1	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
ZEBRA	OSL:61	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
ZEBRA EFFECT MEMORY	OSL:62	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
SKIN TONE EFFECT MEMORY	OSL:63	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
SKIN TONE CRISP	OSL:64	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
I CENTER	OSL:65	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
I WIDTH	OSL:66	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
Q WIDTH	OSL:67	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
Q PHASE	OSL:68	・Not available when FORMAT is not 4K format. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
SKIN TONE DETAIL SETTING					
SKIN TONE DETAIL	OSA:40	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
SKIN GET	OSM:58	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MEMORY SELECT	OSL:69	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CURSOR	OSM:59	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
H POSITION	OSG:44	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
V POSITION	OSG:45	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
ZEBRA	OSA:49	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
ZEBRA EFFECT MEMORY	OSL:6A	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
SKIN TONE EFFECT MEMORY	OSG:48	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
SKIN TONE CRISP	OSG:49	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
I CENTER	OSA:45	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
I WIDTH	OSA:46	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
Q WIDTH	OSA:47	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
Q PHASE	OSG:4F	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LINEAR MATRIX					
PRESET MATRIX	OSE:31	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX	OSA:84	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LINEAR MATRIX	OSL:6C	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LINEAR TABLE	OSA:00	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR CORRECT	OSA:85	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR CORRECT TABLE	OSL:6E	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (R-G) N	OSD:2F	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (R-G) P	OSL:6F	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (R-B) N	OSD:30	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (R-B) P	OSL:70	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (G-R) N	OSD:31	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (G-R) P	OSL:71	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (G-B) N	OSD:32	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (G-B) P	OSL:72	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (B-R) N	OSD:33	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (B-R) P	OSL:73	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (B-G) N	OSD:34	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX (B-G) P	OSL:74	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
COLOR CORRECTION					
PRESET MATRIX	OSE:31	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX	OSA:84	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LINEAR MATRIX	OSL:6C	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LINEAR TABLE	OSA:00	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR CORRECTION	OSA:85	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR CORRECT TABLE	OSL:6E	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G SAT	OSD:8E	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G CY SAT	OSD:90	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CY SAT	OSD:92	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CY B SAT	OSD:94	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B SAT	OSD:96	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B MG SAT	OSD:80	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MG SAT	OSD:82	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MG R SAT	OSD:84	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R SAT	OSD:86	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R YE SAT	OSD:88	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
YE SAT	OSD:8A	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
YE G SAT	OSD:8C	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G PHASE	OSD:8F	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G CY PHASE	OSD:91	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CY PHASE	OSD:93	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
CY B PHASE	OSD:95	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B PHASE	OSD:97	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B MG PHASE	OSD:81	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MG PHASE	OSD:83	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MG R PHASE	OSD:85	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
R PHASE	OSD:87	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R YE PHASE	OSD:89	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
YE PHASE	OSD:8B	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
YE G PHASE	OSD:8D	・Not available when COLOR CORRECT is OFF. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DNR					
DNR	OSD:3A	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DNR LEVEL	OSG:B5	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
ROP CONTROL					
CONTROL ROTATION MODE	OSM:5E		○	○	○
V-LOG PAINT					
COLOR TEMP SETTING					
COLOR TEMP PRESET					
COLOR TEMP PRE SWITCH	OSM:53	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR TEMP	OSM:54	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R GAIN	OSM:55	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B GAIN	OSM:56	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G AXIS	OSM:57	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR TEMP					
COLOR TEMP	OSJ:4A OSJ:48 OSJ:49	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
R GAIN	OSJ:4B	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
B GAIN	OSJ:4C	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
G AXIS	OSJ:4D	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DNR					
DNR	OSD:3A	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
DNR LEVEL	OSG:B5	Available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
HDR PAINT					
HLG MODE	OSI:39	・Not available when HDR is OFF. ・Not available when V-LOG is ON.	○	○	○
SDR CONVERT MODE	OSI:3A	・Not available when HDR is OFF. ・Not available when V-LOG is ON.	○	○	○
GAMMA/BLACK GAMMA					
BLACK GAMMA	OSI:3C	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
MASTER BLACK GAMMA	OSI:3D	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
R BLACK GAMMA	OSI:3E	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
B BLACK GAMMA	OSI:3F	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
KNEE					
KNEE	OSI:40	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
KNEE POINT	OSI:41	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
KNEE SLOPE	OSI:42	・Not available when HDR is OFF. ・Not available when HLG MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
SDR CONVERT					
GAIN	OSI:43	・Not available when HDR is OFF. ・Not available when SDR CONVERT MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
POINT	OSL:88	・Not available when HDR is OFF. ・Not available when SDR CONVERT MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
SLOPE	OSL:89	・Not available when HDR is OFF. ・Not available when SDR CONVERT MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
BLACK OFFSET	OSL:8A	・Not available when HDR is OFF. ・Not available when SDR CONVERT MODE is FIX. ・Not available when V-LOG is ON.	○	○	○
PAINT SWITCH					
FLARE	OSA:11	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
GAMMA	OSA:0A	・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when HDR is ON.	○	○	○
BLACK GAMMA	OSA:0B	・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when HDR is ON.	○	○	○
KNEE	OSL:45	・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when HDR is ON.	○	○	○
WHITE CLIP	OSA:2E	・Not available when V-LOG is ON and V-LOG PAINT SW is OFF. ・Not available when HDR is ON.	○	○	○
DRS	OSA:0D	・Not available when V-LOG is ON. ・Not available when the format is in 180p/150p/240p/200p mode	○	○	○
DETAIL	ODT	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
SKIN TONE DETAIL	OSA:40	Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
MATRIX	OSA:84	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
LINEAR MATRIX	OSL:6C	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○
COLOR CORRECT	OSA:85	・Not available whenTEST SAW is ON. ・Not available when V-LOG is ON and V-LOG PAINT SW is OFF.	○	○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
LENS					
DIGITAL EXTENDER	OSJ:4E			○	
ND FILTER	OFT		○	○	
IRIS					
LENS EXT COMP SW	OSM:5F			○	
EXTENDER1	–			○	○
LENS EXT COMP LEVEL	OSM:60			○	
EXTENDER2	–			○	○
LENS EXT COMP LEVEL	–			○	
EXTENDER3	–			○	○
LENS EXT COMP LEVEL	–			○	
EXTENDER4	–			○	○
LENS EXT COMP LEVEL	–			○	
MONITOR DISPLAY					
FOCUS ASSIST					
FOCUS ASSIST SW	–			○	
FOCUS ASSIST MODE	–			○	
CANCEL TIME	–			○	
IN RED SW	–			○	
IN RED COLOR	–			○	
SQUARE SW	–			○	
SQUARE COLOR	–			○	
BAR SW	–			○	
BAR MODE	–			○	
BAR COLOR	–			○	
BAR POSITION	–			○	
MAG SW	–			○	
FOCUS GUIDE SW	–			○	
EXPOSURE ASSIST					
ZEBRA	–			○	
ZEBRA1 LEVEL	–			○	
ZEBRA2 LEVEL	–			○	
ZEBRA PATTERN	–			○	
MARKER					
MARKER LEVEL	OSM:2C			○	
CENTER MARK	OSM:2D			○	
CENTER MARK SELECT	OSM:2E			○	
LINE WIDTH	OSM:2F			○	
SAFETY MARK1 SWITCH	–			○	
SAFETY MARK1	–			○	
SAFETY AREA1	–			○	
SAFETY MARK2 SWITCH	–			○	
SAFETY MARK2	–			○	
SAFETY AREA2	–			○	
FRAME LEVEL SWITCH	–			○	
FRAME LEVEL	–			○	
FRAME MARK SWITCH	–			○	
FRAME SIG	–			○	
EFECTIVE AREA MARK	–			○	
PF LENS AREA MARK	–			○	
USER BOX	–			○	
MEMORY SELECT	–			○	
H POSITION	–			○	
H OFFSET	–			○	
V POSITION	–			○	
V OFFSET	–			○	
WIDTH	–			○	
HEIGHT	–			○	
BOX/CROSS	–			○	
EFFECT MEMORY1	–			○	
EFFECT MEMORY2	–			○	
EFFECT MEMORY3	–			○	

Menu	Command	Remarks	SCENE	USER	REFERENCE
MONITOR DARK GAIN					
DARK GAIN SW	–			○	
DARK GAIN LEVEL	–			○	
STATUS INDICATOR					
F NUMBER	OSM:30			○	
ZOOM	OSM:31			○	
FOCUS	–			○	
FOCUS CONDITION	–			○	
EXTENDER	–			○	
FILTER	OSM:32			○	
MASTER GAIN	–			○	
OFFSET GAIN	–			○	
SHUTTER	OSM:33			○	
DIGITAL EXTENDER	–			○	
DRS	–			○	
CAC	–			○	
OPT LEVEL	–			○	
STATUS	–			○	
STATUS(AUTO)	OSA:88			○	
VOLTAGE	–			○	
FORMAT	OSM:34			○	
SENSOR RATE	–			○	
FAN OFF	–			○	
COLOR TEMP	OSM35			○	
SHOOTING MODE	OSM:36			○	
MAG	–			○	
F DROP ADJUST	–			○	
HDR	–			○	
V-LOG	–			○	
TALLY CHAR	–			○	
FOCUS DISP	–			○	
TRACKING DATA OUTPUT					
IP	OSJ:55			○	○
CAMERA ID	OSJ:F4			○	○
FILES					
SCENE FILE					
MODE	–				
FILE NO	–				
FILE NAME	–				
LIST	–				
EXECUTE	OSL:8F XSF OSL:90 OSL:91				
USER FILE					
MODE	–				
FILE NO	–				
FILE NAME	–				
LIST	–				
EXECUTE	OSL:92 OSL:93 OSL:94				
REFFERENCE FILE					
MODE	–				
FILE NO	–				
FILE NAME	–				
LIST	–				
EXECUTE	OSM:61 OSM:62				
ACCOUNT SETTING					
ROP	–				
LIST	–				
MAINTENANCE					
CAC ADJUST					
CAC CONTROL	–			○	○

Menu	Command	Remarks	SCENE	USER	REFERENCE
LENS FILE ADJUST					
LENS FILE SW	–				
LENS FILE MODE	–				
FILE NO.	–				
FILE NAME	–				
EXECUTE	–				
FLARE R	–			○	○
FLARE G	–			○	○
FLARE B	–			○	○
GAIN R	–			○	○
GAIN B	–			○	○
W H SAW R	–			○	○
W H SAW G	–			○	○
W H SAW B	–			○	○
W H PARA R	–			○	○
W H PARA G	–			○	○
W H PARA B	–			○	○
W V SAW R	–			○	○
W V SAW G	–			○	○
W V SAW B	–			○	○
W V PARA R	–			○	○
W V PARA G	–			○	○
W V PARA B	–			○	○
EXTENDER1	–			○	○
EXTENDER2	–			○	○
EXTENDER3	–			○	○
EXTENDER4	–			○	○
F DROP ADJUST					
F DROP RANGE	–			○	○
FAN SETTING					
FAN1	#FAN #FS1			○	○
DATE/TIME					
PRESENT	–				
DATE YY	–				
DATE MM	–				
DATE DD	–				
TIME HH	–				
TIME MM	–				
TIME SS	–				
SET EXECUTE	–				
RESET	–				
INITIALIZE					
MENU INITIALIZE	–				
ALL DATA INITIALIZE	–				
READ FACTORY ALL DATA	–				
VERSION					
SYSTEM VERSION	QSL:99 QSV	″QSV″ command is sent once every 60 seconds as update notification.			
HOUR METER					
OPERATION	–				
FAN1	–				
ERROR STATUS	QER OSI:46				
FAN1	–				
TEMPERATURE	–				
WHITE SHADING					
CORRECT	OSL:9B			○	○
W H SAW R	OSL:9C			○	○
W H SAW G	OSL:9D			○	○
W H SAW B	OSL:9E			○	○
W H PARA R	OSL:9F			○	○
W H PARA G	OSL:A0			○	○
W H PARA B	OSL:A1			○	○
W V SAW R	OSL:A2			○	○
W V SAW G	OSL:A3			○	○
W V SAW B	OSL:A4			○	○
W V PARA R	OSL:A5			○	○
W V PARA G	OSL:A6			○	○
W V PARA B	OSL:A7			○	○
BLACK SHADING					
CORRECT	OSM:63			○	○
B H SAW R	OSM:64			○	○
B H SAW G	OSM:65			○	○
B H SAW B	OSM:66			○	○
B H PARA R	OSM:67			○	○
B H PARA G	OSM:68			○	○
B H PARA B	OSM:69			○	○
B V SAW R	OSM:6A			○	○
B V SAW G	OSM:6B			○	○
B V SAW B	OSM:6C			○	○
B V PARA R	OSM:6D			○	○
B V PARA G	OSM:6E			○	○
B V PARA B	OSM:6F			○	○
LENS I/F	OSL:F0			○	○

Commands not linked to menus

Menu	Command	Remarks	SCENE	USER	REFERENCE
BASIC CONFIG					
SYNC STATUS(GEN-LOCK / PTP)	OSL:C7				
PAINT					
AUTO IRIS WINDOW	OSL:CC				
AUTO IRIS WINDOW POSITION	OSL:CD				
REQUEST MATRIX	OSL:B2				
LENS					
DIGITAL ZOOM MAGNIFICATION	OSE:76				
ZOOM SPEED CONTROL	OSM75				
ZOOM POSITION CONTROL	LZP				
FOCUS SPEED CONTROL	OSM:76				
FOCUS POSITION CONTROL	LFP				
IRIS CONTROL	ORV				
LENS POSITION INFORMATION	OSI:18	・When LENS POSITION INFORMATION CONTROL is ON, send an update notification. ・If there are changes in Zoom, Focus, or Iris at 300 ms intervals, send an update notification.			
LENS POSITION INFORMATION CONTROL	OSM:77				
REQUEST IRIS F NO.	QIF				
OSD					
MENU ON/OFF	DUS				
MENU CANCEL	DPG				
MENU ENTER	DIT				
MENU UP(DIAL)	DUP				
MENU DOWN(DIAL)	DDW				
MENU UP	CUP				
MENU DOWN	CDW				
MENU RIGHT	CRT				
MENU LEFT	CLT				
OTHER					
MODEL NUMBER	QID				
CAMERA NUMBER	OSL:AE				
CAMERA TITLE	OSJ:5C				

9. Command List
BASIC CONFIG

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
FREQUENCY	Control	OSE:77:[Data]	0 1	59.94Hz 50.00Hz	cam	OSE:77:[Data]	OSE:77:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:77:1&res=1 The unit is automatically rebooted after changing settings.
	Response	OSE:77:[Data]						
	Request	QSE:77						
	Response	OSE:77:[Data]						
FORMAT	Control	OSA:87:[Data]	10h 11h 14h 15h 17h 18h 19h 1Ah 1Bh 23h	1080/59.94p 1080/50p 1080/29.97p 1080/25p 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/23.98p 1080/23.98p	cam	OSA:87:[Data]	OSA:87:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:87:01&res=1 【59.94Hz】 2160/59.94p , 2160/29.97p , 2160/23.98 , 1080/59.94p , 1080/29.97p, 1080/23.98p 【50Hz】 2160/50p , 2160/25p, 1080/50p , 1080/25p
	Response	OSA:87:[Data]						
	Request	QSA:87						
	Response	OSA:87:[Data]						
FPS SW	Control	OSL:DC:[Data]	0 1	OFF ON	cam	OSL:DC:[Data]	OSL:DC:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:DC:1&res=1
	Response	OSL:DC:[Data]						
	Request	QSL:DC						
	Response	OSL:DC:[Data]						
FPS	Control	OSL:DD:[Data]	0 1 2	24 30 60	cam	OSL:DD:[Data]	OSL:DD:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:DD:1&res=1
	Response	OSL:DD:[Data]						
	Request	QSL:DD						
	Response	OSL:DD:[Data]						
OPT MODE	Control	OSL:00:[Data]	3 4	ST2110_25G ST2110_10G	cam	OSL:00:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:00:1&res=1
	Response	OSL:00:[Data]						
	Request	QSL:00						
	Response	OSL:00:[Data]						
V-LOG	Control	OSJ:56:[Data]	0 1	OFF ON	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]						
	Request	QSJ:56						
	Response	OSJ:56:[Data]						
V-LOG PAINT SW	Control	OSL:01:[Data]	0 1	OFF ON	cam	OSL:01:[Data]	OSL:01:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:01:1&res=1
	Response	OSL:01:[Data]						
	Request	QSL:01						
	Response	OSL:01:[Data]						
HDR	Control	OSI:2C:[Data]	0 1	OFF ON	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]						
	Request	QSI:2C						
	Response	OSI:2C:[Data]						
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]						
SHOOTING MODE	Control	OSI:30:[Data]	0 1	NORMAL LOW LIGHT	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]						
	Request	QSI:30						
	Response	OSI:30:[Data]						
BAR	Control	DCB:[Data]	0 1	OFF ON	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]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
COLOR BAR TYPE	Control	OSD:BA:[Data]	0 1 2 3 4	TYPE2:FULL TYPE1:SMPTE TYPE3:ARIB(MULTI) TYPE4:ARIB(UHD MULTI) TYPE5:ARIB(BT.2020)	cam	OSD:BA:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:BA:0&res=1
	Response	OSD:BA:[Data]						
	Request	QSD:BA						
	Response	OSD:BA:[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]						
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]						
FRONT TALLY	Control	OSM:4A:[Data]	0 1	DISABLE ENABLE	cam	OSM:4A:[Data]	OSM:4A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:4A:0&res=1
	Response	OSM:4A:[Data]						
	Request	QSM:4A						
	Response	OSM:4A:[Data]						
BACK TALLY	Control	OSM:4B:[Data]	0 1	DISABLE ENABLE	cam	OSM:4B:[Data]	OSM:4B:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:4B:0&res=1
	Response	OSM:4B:[Data]						
	Request	QSM:4B						
	Response	OSM:4B:[Data]						
FRONT TALLY BRIGHTNESS	Control	OSM:4C:[Data]	0 1	LOW HIGH	cam	OSM:4C:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:4C:0&res=1
	Response	OSM:4C:[Data]						
	Request	QSM:4C						
	Response	OSM:4C:[Data]						
BACK TALLY BRIGHTNESS	Control	OSM:4D:[Data]	0 1	LOW HIGH	cam	OSM:4D:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:4D:0&res=1
	Response	OSM:4D:[Data]						
	Request	QSM:4D						
	Response	OSM:4D:[Data]						
TALLY GUARD	Control	OSL:04:[Data]	0 1	OFF ON	cam	OSL:04:[Data]	OSL:04:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:04:1&res=1
	Response	OSL:04:[Data]						
	Request	QSL:04						
	Response	OSL:04:[Data]						
SYNC REF SIGNAL	Control	OSL:08:[Data]	0 1	BBS/TRI-LEVEL SYNC PTP	cam	OSL:08:[Data]	OSL:08:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:08:1&res=1
	Response	OSL:08:[Data]						
	Request	QSL:08						
	Response	OSL:08:[Data]						
SYNC GEN-LOCK H PHASE-COARSE	Control	OSL:09:[Data]	1Ch - 80h - E4h	-100 - 0 - 100	cam	OSL:09:[Data]	OSL:09:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:09:85&res=1
	Response	OSL:09:[Data]						
	Request	QSL:09						
	Response	OSL:09:[Data]						
SYNC GEN-LOCK H PHASE-FINE	Control	OSL:0A:[Data]	1Ch - 80h - E4h	-100 - 0 - 100	cam	OSL:0A:[Data]	OSL:0A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:0A:E4&res=1
	Response	OSL:0A:[Data]						
	Request	QSL:0A						
	Response	OSL:0A:[Data]						
SYNC STATUS(GEN-LOCK / PTP)	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]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
BAR ID	Control	OSD:BE:[Data]	0 1	OFF ON	cam	OSD:BE:[Data]	OSD:BE:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:BE:1&res=1
	Response	OSD:BE:[Data]						
	Request	QSD:BE						
	Response	OSD:BE:[Data]						
BAR ID BRIGHTNESS	Control	OSL:0B:[Data]	00h – 64h	0% – 100%	cam	OSL:0B:[Data]	OSL:0B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:0B:64&res=1
	Response	OSL:0B:[Data]						
	Request	QSL:0B						
	Response	OSL:0B:[Data]						
BAR ID ID1 POSITION V	Control	OSL:0C:[Data]	0 – 5	0 – 5	cam	OSL:0C:[Data]	OSL:0C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:0C:1&res=1
	Response	OSL:0C:[Data]						
	Request	QSL:0C						
	Response	OSL:0C:[Data]						
BAR ID ID1 POSITION H	Control	OSL:0D:[Data]	0h – Fh	0h – Fh	cam	OSL:0D:[Data]	OSL:0D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:0D:1&res=1
	Response	OSL:0D:[Data]						
	Request	QSL:0D						
	Response	OSL:0D:[Data]						
BAR ID ID1	Control	OSL:0E:[Data]	xxxxxxxx (32 DATA in ASCII CODE)	BAR ID (FIXED 16 CHARACTORS)	cam	OSL:0E:[Data]	OSL:0E:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:0E:42415249443100000000000000000000&res=1 alphanumeric space ! # % & ' ( ) * + , - . / : ; < = > ? [ ] _ ~
	Response	OSL:0E:[Data]						
	Request	QSL:0E						
	Response	OSL:0E:[Data]						
BAR ID ID2 POSITION V	Control	OSL:0F:[Data]	0 – 5	0 – 5	cam	OSL:0F:[Data]	OSL:0F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:0F:1&res=1
	Response	OSL:0F:[Data]						
	Request	QSL:0F						
	Response	OSL:0F:[Data]						
BAR ID ID2 POSITION H	Control	OSL:10:[Data]	0h – Fh	0h – Fh	cam	OSL:10:[Data]	OSL:10:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:10:1&res=1
	Response	OSL:10:[Data]						
	Request	QSL:10						
	Response	OSL:10:[Data]						
BAR ID ID2	Control	OSL:11:[Data]	xxxxxxxx (32 DATA in ASCII CODE)	BAR ID (FIXED 16 CHARACTORS)	cam	OSL:11:[Data]	OSL:11:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:11:42415249443200000000000000000000&res=1 alphanumeric space ! # % & ' ( ) * + , - . / : ; < = > ? [ ] _ ~
	Response	OSL:11:[Data]						
	Request	QSL:11						
	Response	OSL:11:[Data]						
BAR ID OFFSET V	Control	OSL:12:[Data]	00h – 59h	0 – 89	cam	OSL:12:[Data]	OSL:12:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:12:01&res=1
	Response	OSL:12:[Data]						
	Request	QSL:12						
	Response	OSL:12:[Data]						
BAR ID OFFSET H	Control	OSL:13:[Data]	00h – 4Fh	0 – 79	cam	OSL:13:[Data]	OSL:13:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:13:01&res=1
	Response	OSL:13:[Data]						
	Request	QSL:13						
	Response	OSL:13:[Data]						

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

OUTPUT

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
12G SDI OUT1 OUTPUT SELECT	Control	–	0	CAM	cam	OSL:DE:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:DE:0&res=1
	Response	–						
	Request	QSL:DE						
	Response	OSL:DE:[Data]						
12G SDI OUT1 FORMAT SELECT	Control	OSL:DF:[Data]	0 1 2	2160p 1080p 1080i	cam	OSL:DF:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:DF:1&res=1 ■CAM [When UHD] 2160p / 1080p / 1080i For frame rates 29.97 / 23.98 / 25: 2160p / 1080p [When HD] 1080p / 1080i For frame rates 29.97 / 23.98 / 25: Fixed at 1080p ■HD PROMPT 1080p/1080i
	Response	OSL:DF:[Data]						
	Request	QSL:DF						
	Response	OSL:DF:[Data]						
12G SDI OUT1 OUTPUT ITEM	Control	OSL:14:[Data]	0 1	MENU ONLY STATUS	cam	OSL:14:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:14:1&res=1
	Response	OSL:14:[Data]						
	Request	QSL:14						
	Response	OSL:14:[Data]						
12G SDI OUT1 HDR OUTPUT SELECT	Control	OSJ:1F:[Data]	0 1 2	SDR(709) HDR(2020) HDR(709)	cam	OSJ:1F:[Data]	OSJ:1F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:1F:0&res=1
	Response	OSJ:1F:[Data]						
	Request	QSJ:1F						
	Response	OSJ:1F:[Data]						
12G SDI OUT1 V-LOG OUTPUT SELECT	Control	OSJ:57:[Data]	0 1 2	V-LOG V709 Rec.709	cam	OSJ:57:[Data]	OSJ:57:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:57:0&res=1
	Response	OSJ:57:[Data]						
	Request	QSJ:57						
	Response	OSJ:57:[Data]						
CHAR	Control	OSE:7B:[Data]	00h 01h 10h 20h 40h	00h:OSD MIX OFF 01h:HD SDI OUT 10h:IP/NDI|HX ON 20h:12G SDI1 ON 40h:12G SDI2 ON	cam	OSE:7B:[Data]	OSE:7B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7B:B3&res=1 bit0:reserve bit1:HD SDI OUT bit2:reserve bit3:reserve bit4:IP bit5:12G SDI1 bit6:12G SDI2 bit7:reserve On UBX100, 01h: HD SDI OUT1 is fixed to ON.
	Response	OSE:7B:[Data]						
	Request	QSE:7B						
	Response	OSE:7B:[Data]						
12G SDI OUT2 OUTPUT SELECT	Control	–	0	CAM	cam	OSL:E0:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:E0:1&res=1
	Response	–						
	Request	QSL:E0						
	Response	OSL:E0:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
12G SDI OUT2 FORMAT SELECT	Control	OSL:E1:[Data]	0 1 2	2160p 1080p 1080i	cam	OSL:E1:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:E1:1&res=1 ■CAM [When UHD] 2160p / 1080p / 1080i For frame rates 29.97 / 23.98 / 25: 2160p / 1080p [When HD] 1080p / 1080i For frame rates 29.97 / 23.98 / 25: Fixed at 1080p ■VF Fixed at 1080i ■RET,RET1,RET2,RET3,RET4 1080p/1080i
	Response	OSL:E1:[Data]						
	Request	QSL:E1						
	Response	OSL:E1:[Data]						
12G SDI OUT2 HDR OUTPUT SELECT	Control	OSL:E2:[Data]	0 1 2	SDR(709) HDR(2020) HDR(709)	cam	OSL:E2:[Data]	OSL:E2:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:E2:1&res=1
	Response	OSL:E2:[Data]						
	Request	QSL:E2						
	Response	OSL:E2:[Data]						
12G SDI OUT2 V-LOG OUTPUT SELECT	Control	OSL:E3:[Data]	0 1 2	V-LOG V709 Rec.709	cam	OSL:E3:[Data]	OSL:E3:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:E3:1&res=1
	Response	OSL:E3:[Data]						
	Request	QSL:E3						
	Response	OSL:E3:[Data]						
12G SDI OUT2 OUTPUT ITEM	Control	OSL:E4:[Data]	0 1	MENU ONLY STATUS	cam	OSL:E4:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:E4:1&res=1
	Response	OSL:E4:[Data]						
	Request	QSL:E4						
	Response	OSL:E4:[Data]						
3G SDI OUT1 OUTPUT SELECT	Control	-	0	MONI	cam	OSM:4E:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:4E:0&res=2
	Response	-						
	Request	QSM:4E						
	Response	OSM:4E:[Data]						
3G SDI OUT1 FORMAT SELECT	Control	OSM:4F:[Data]	1 2	1080p 1080i	cam	OSM:4F:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:4F:1&res=3
	Response	OSM:4F:[Data]						
	Request	QSM:4F						
	Response	OSM:4F:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
3G SDI OUT1 HDR OUTPUT SELECT	Control	-	0	SDR(709)	cam	OSJ:22:[Data]	OSJ:22:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:22:0&res=1
	Response	-						
	Request	QSJ:22						
	Response	OSJ:22:[Data]						
3G SDI OUT1 V-LOG OUTPUT SELECT	Control	OSJ:58:[Data]	1 2	V709 Rec.709	cam	OSJ:58:[Data]	OSJ:58:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:58:0&[res=1
	Response	OSJ:58:[Data]						
	Request	QSJ:58						
	Response	OSJ:58:[Data]						
3G SDI OUT1 OUTPUT ITEM	Control	-	1	STATUS	cam	OSL:15:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:15:1&res=1
	Response	-						
	Request	QSL:15						
	Response	OSL:15:[Data]						

IP SIGNAL

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
NDI FORMAT SELECT	Control	OSL:21:[Data]	10h 11h 14h 15h 17h 18h 19h 1Ah 1Bh 23h	1080/59.94p 1080/50p 1080/29.97p 1080/25p 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/23.98p 1080/23.98p	cam	OSL:21:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:21:01&res=1 [59.94Hz] 2160/59.94p, 2160/29.97p, 1080/59.94p, 1080/29.97p [50Hz] 2160/50p, 2160/25p, 1080/50p, 1080/25p [23.98Hz] 2160/23.98p, 1080/23.98p
	Response	OSL:21:[Data]						
	Request	QSL:21						
	Response	OSL:21:[Data]						
IP(H.264/H.265) OUTPUT ITEM	Control	OSL:23:[Data]	0 1	MENU ONLY STATUS	cam	OSL:23:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:23:1&res=1
	Response	OSL:23:[Data]						
	Request	QSL:23						
	Response	OSL:23:[Data]						
ST2110 MAIN VIDEO TX FORMAT	Control	OSL:AA:[Data]	04h 05h 10h 11h 14h 15h 17h 18h 19h 1Ah 1Bh 23h	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 1080/23.98p	cam	OSL:AA:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:AA:01&res=1
	Response	OSL:AA:[Data]						
	Request	QSL:AA	04h 05h 10h 11h 14h 15h 17h 18h 19h 1Ah 1Bh 23h FFh	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 1080/23.98p DISABLE				
	Response	OSL:AA:[Data]						
ST2110 MAIN VIDEO TX HDR/V-LOG MODE	Control	-	0 1 2 3 4	SDR/709 HDR/709 HDR/2020 V-LOG DISABLE	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSM:78&res=1
	Response	-						
	Request	QSM:78						
	Response	OSM:78:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
ST2110 MONITOR VIDEO TX FORMAT	Control	-	04h 05h 10h 11h 14h 15h 23h FFh	1080/59.94i 1080/50i 1080/59.94p 1080/50p 1080/29.97p 1080/25p 1080/23.98p DISABLE	cam	OSL:AD:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSL:AD&res=1
	Response	-						
	Request	QSL:AD						
	Response	OSL:AD:[Data]						
ST2110 MONITOR VIDEO TX HDR/V-LOG MODE	Control	-	0 1 2 3	SDR/709 V709 BC709 DISABLE	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSM:7A&res=1
	Response	-						
	Request	QSM:7A						
	Response	OSM:7A:[Data]						

PAINT

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
GAIN	Control	OSL:25:[Data]	02h – 08h – 1Ah	-6dB – 0dB – 18dB	cam	OSL:25:[Data]	OSL:25:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:25:0A&res=1 Every 3 steps
	Response	OSL:25:[Data]						
	Request	QSL:25						
	Response	OSL:25:[Data]						
AGC	Control	OSL:26:[Data]	0 1	OFF ON	cam	OSL:26:[Data]	OSL:26:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:26:1&res=1
	Response	OSL:26:[Data]						
	Request	QSL:26						
	Response	OSL:26:[Data]						
GAIN	Control	OGU:[Data]	02h – 08h – 1Ah 80h	-6dB – 0dB – 18dB AGC ON	cam	OGU:[Data]	OGU:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OGU:08&res=1 Every 3 steps
	Response	OGU:[Data]						
	Request	QGU						
	Response	OGU:[Data]						
OFFSET GAIN	Control	OSM:70:[Data]	63h – 80h – 9Dh	-2.9dB – 0.0dB – 2.9dB	cam	OSM:70:[Data]	OSM:70:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:70:80&res=1
	Response	OSM:70:[Data]						
	Request	QSM:70						
	Response	OSM:70:[Data]						
GAIN/ISO MODE	Control	OSL:D1:[Data]	0 1	dB ISO	cam	OSL:D1:[Data]	OSL:D1:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:D1:1&res=1
	Response	OSL:D1:[Data]						
	Request	QSL:D1						
	Response	OSL:D1:[Data]						
GAIN(ISO Mode)	Control	OSL:D2:[Data]	000190h – 003200h	ISO 400 – ISO 12800	cam	OSL:D2:[Data]	OSL:D2:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:D2:0190&res=1 Menu Value is ISO 400, ISO 500, ISO 640, ISO 800, ISO 1000, ISO 1250, ISO 1600, ISO 2000, ISO 2500, ISO 3200, ISO 4000, ISO 5000, ISO 6400, ISO 8000, ISO 10000, ISO 12800
	Response	OSL:D2:[Data]						
	Request	QSL:D2						
	Response	OSL:D2:[Data]						
AGC MAX GAIN	Control	OSD:69:[Data]	01 02 03	6dB 12dB 18dB	cam	OSD:69:[Data]	OSD:69:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:69:01&res=1
	Response	OSD:69:[Data]						
	Request	QSD:69						
	Response	OSD:69:[Data]						
AUTO IRIS	Control	ORS:[Data]	0 1	OFF ON	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 WINDOW SELECT	Control	OSJ:02:[Data]	1 2 3 4 5	1 2 3 4 5	cam	OSJ:02:[Data]	OSJ:02:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:02:1&res=1
	Response	OSJ:02:[Data]						
	Request	QSJ:02						
	Response	OSJ:02:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
AUTO IRIS WINDOW	Control	OSL:CC:[Data]	0 1	OFF ON	cam	OSL:CC:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:CC:1&res=1
	Response	OSL:CC:[Data]						
	Request	QSL:CC						
	Response	OSL:CC:[Data]						
AUTO IRIS WINDOW POSITION	Control	OSL:CD:[Data1]:[Data2]:[Data3]:[Data4]	[Data1] 00h – 08h [Data2] 00h – 04h [Data3] 00h – 08h [Data4] 00h – 04h	[Data1]UPPER LEFT(H) 0 – 8 [Data2]UPPER LEFT(V) 0 – 4 [Data3]BOTTOM RIGHT(H) 0 – 8 [Data4]BOTTOM RIGHT(V) 0 – 4	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]						
	Request	QSL:CD						
	Response	OSL:CD:[Data1]:[Data2]:[Data3]:[Data4]						
IRIS LEVEL	Control	OSD:48:[Data]	00h – 32h – 64h	0 – 50 – 100	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]						
IRIS PEAK RATIO	Control	OSL:29:[Data]	00h – 64h	0 – 100	cam	OSL:29:[Data]	OSL:29:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:29:64&res=1
	Response	OSL:29:[Data]						
	Request	QSL:29						
	Response	OSL:29:[Data]						
IRIS SPEED	Control	OSL:E5:[Data]	01h – 19h	1 – 25	cam	OSL:E5:[Data]	OSL:E5:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:E5:11&res=1
	Response	OSL:E5:[Data]						
	Request	QSL:E5						
	Response	OSL:E5:[Data]						
IRIS RANGE	Control	OSM:51:[Data]	0 1 2 3	NORMAL 3/4 2/4 1/4	cam	OSM:51:[Data]	OSM:51:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:51:0&res=1
	Response	OSM:51:[Data]						
	Request	QSM:51						
	Response	OSM:51:[Data]						
IRIS GAIN	Control	OSM:52:[Data]	0 1	LENS CAM	cam	OSM:52:[Data]	OSM:52:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:52:0&res=1
	Response	OSM:52:[Data]						
	Request	QSM:52						
	Response	OSM:52:[Data]						
ATW	Control	OSL:2A:[Data]	0 1	OFF ON	cam	OSL:2A:[Data]	OSL:2A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:2A:1&res=1
	Response	OSL:2A:[Data]						
	Request	QSL:2A						
	Response	OSL:2A:[Data]						
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
	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	-						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
ATW SPEED	Control	OSI:25:[Data]	0 1 2	NORMAL SLOW FAST	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]						
	Request	QSI:25						
	Response	OSI:25:[Data]						
ATW TARGET R	Control	OSJ:0D:[Data]	76h – 80h – 8Ah	−10 – 0 – +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						
	Response	OSJ:0D:[Data]						
ATW TARGET B	Control	OSJ:0E:[Data]	76h – 80h – 8Ah	−10 – 0 – +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						
	Response	OSJ:0E:[Data]						
SHOCKLESS WB SW	Control	OSL:2C:[Data]	0 1	OFF ON	cam	OSL:2C:[Data]	OSL:2C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:2C:1&res=1
	Response	OSL:2C:[Data]						
	Request	QSL:2C						
	Response	OSL:2C:[Data]						
SHOCKLESS WB SPEED	Control	OSL:2D:[Data]	1 – 5	1 – 5	cam	OSL:2D:[Data]	OSL:2D:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:2D:1&res=1
	Response	OSL:2D:[Data]						
	Request	QSL:2D						
	Response	OSL:2D:[Data]						
SHUTTER SW	Control	OSG:59:[Data]	0 1	OFF ON	cam	OSG:59:[Data]	OSG:59:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:59:1&res=1
	Response	OSG:59:[Data]						
	Request	QSG:59						
	Response	OSG:59:[Data]						
SHUTTER MODE	Control	OSG:5A:[Data]	0 1	STEP SYNCHRO	cam	OSG:5A:[Data]	OSG:5A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:5A:1&res=1
	Response	OSG:5A:[Data]						
	Request	QSG:5A						
	Response	OSG:5A:[Data]						
SHUTTER MODE	Control	OSJ:03:[Data]	0 1 2	OFF STEP SYNCHRO	cam	OSJ:03:[Data]	OSJ:03:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:03:1&res=1
	Response	OSJ:03:[Data]						
	Request	QSJ:03						
	Response	OSJ:03:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
SHUTTER SPEED	Control	OSJ:06:[Data]	0001h – 07D0h	1/1 – 1/2000	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 [Parameter] in [Data] (hexadecimal) The following parameters can be set. If anything other than the following is specified, an error will be returned. [59.94i/59.94p/60pモード] 1/100,1/120,1/125,1/250,1/500,1/1000,1/1500,1/2000 [50i/50pモード] 1/60,1/100,1/125,1/250,1/500,1/1000,1/1500,1/2000 [29.97pモード] 1/48,1/50,1/60,1/96,1/100,1/120,1/125,1/250,1/500,1/1000,1/1500,1/2000 [25pモード] 1/48,1/50,1/60,1/96,1/100,1/125,1/250,1/500,1/1000,1/1500,1/2000 [23.98pモード] 1/48,1/50,1/60,1/96,1/100,1/120,1/125,1/250,1/500,1/1000,1/1500,1/2000 [59.94p-120fpsモード] 1/125,1/250,1/500,1/1000,1/1500,1/2000 [50p-100fpsモード] 1/125,1/250,1/500,1/1000,1/1500,1/2000
	Response	OSJ:06:[Data]						
	Request	QSJ:06						
	Response	OSJ:06:[Data]						
SHUTTER SPEED 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 Increases the SHUTTER SPEED by [Data] steps.
	Response	OSJ:04:[Data]						
	Request	–						
	Response	–						
SHUTTER SPEED 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 Decreases the SHUTTER SPEED by [Data] steps.
	Response	OSJ:05:[Data]						
	Request	–						
	Response	–						
SHUTTER DISP	Control	OSL:D3:[Data]	0 1	sec deg	cam	OSL:D3:[Data]	OSL:D3:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:D3:1&res=1
	Response	OSL:D3:[Data]						
	Request	QSL:D3						
	Response	OSL:D3:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
SHUTTER SPEED(deg)	Control	OSL:D4:[Data]	073h 0E1h 1C2h 384h 4B0h 5A0h 6C0h 708h A8Ch DF2h	11.5d 22.5d 45.0d 90.0d 120.0d 144.0d 172.8d 180.0d(HALF SHUTTER) 270.0d 357.0d	cam	OSL:D4:[Data]	OSL:D4:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:D4:01&res=1
	Response	OSL:D4:[Data]						
	Request	QSL:D4						
	Response	OSL:D4:[Data]						
SYNCHRO SCAN	Control	OSJ:09:[Data]	00000h – 186A0h	0.0[Hz] – 10000.0[Hz]	cam	OSJ:09:[Data]	OSJ:09:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:09:00258&res=1 For [Data] (hexadecimal), specify a value that is 10 times the [Parameter]. The specified range of parameters is as follows. If you specify a value that cannot be set, the number is rounded down. [59.94i/59.94p/60p] 60.0Hz～7200Hz [50i/50p] 50.0Hz～7200Hz [29.97p] 30.0Hz～7200Hz [25p] 25.0Hz～7200Hz [23.98p] 24.0Hz～7200Hz [59.94p-120fps](119.88p) 120.1Hz～7200Hz [50p-100fps](100p) 100.1Hz～7200Hz
	Response	OSJ:09:[Data]						
	Request	QSJ:09						
	Response	OSJ:09:[Data]						
SYNCHRO SCAN 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 Increases the SYNCHRO SCAN by [Data] steps.
	Response	OSJ:07:[Data]						
	Request	–						
	Response	–						
SYNCHRO SCAN 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 Decreases the SYNCHRO SCAN by [Data] steps.
	Response	OSJ:08:[Data]						
	Request	–						
	Response	–						
SYNCHRO SCAN(deg)	Control	OSL:F1:[Data]	01Eh – DF2h	3.0d – 357.0d	cam	OSL:F1:[Data]	OSL:F1:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:F1:01&res=1 Display 10 times the setting value in hexadecimal. Configurable in 0.5d increments.
	Response	OSL:F1:[Data]						
	Request	QSL:F1						
	Response	OSL:F1:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
MASTER PEDESTAL	Control	OSJ:0F:[Data]	738h – 800h – 8C8h	-200 – 0 – 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]						
	Request	QSJ:0F						
	Response	OSJ:0F:[Data]						
R PEDESTAL	Control	OSG:4C:[Data]	4E0h – 800h – B20h	-800 – 0 – +800	cam	OSG:4C:[Data]	OSG:4C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:4C:800&res=1
	Response	OSG:4C:[Data]						
	Request	QSG:4C						
	Response	OSG:4C:[Data]						
G PEDESTAL	Control	OSG:4D:[Data]	4E0h – 800h – B20h	-800 – 0 – +800	cam	OSG:4D:[Data]	OSG:4D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:4D:800&res=1
	Response	OSG:4D:[Data]						
	Request	QSG:4D						
	Response	OSG:4D:[Data]						
B PEDESTAL	Control	OSG:4E:[Data]	4E0h – 800h – B20h	-800 – 0 – +800	cam	OSG:4E:[Data]	OSG:4E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:4E:800&res=1
	Response	OSG:4E:[Data]						
	Request	QSG:4E						
	Response	OSG:4E:[Data]						
PEDESTAL OFFSET	Control	OSJ:11:[Data]	0 1	OFF ON	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]						
	Request	QSJ:11						
	Response	OSJ:11:[Data]						
CHROMA LEVEL SWITCH	Control	OSG:93:[Data]	0 1	OFF ON	cam	OSG:93:[Data]	OSG:93:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:93:1&res=1
	Response	OSG:93:[Data]						
	Request	QSG:93						
	Response	OSG:93:[Data]						
CHROMA LEVEL	Control	OSL:B0:[Data]	1Ch – 80h – D0h	-100% – 0 – 80	cam	OSL:B0:[Data]	OSL:B0:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:B0:81&res=1 Step:1%
	Response	OSL:B0:[Data]						
	Request	QSL:B0						
	Response	OSL:B0:[Data]						
CHROMA LEVEL	Control	OSD:B0:[Data]	00h 1Ch – 80h – D0h	OFF -100% – 0 – 80	cam	OSD:B0:[Data]	OSD:B0:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:B0:80&res=1 Step:1%
	Response	OSD:B0:[Data]						
	Request	QSD:B0						
	Response	OSD:B0:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
COLOR TEMP ACH	Control	OSJ:4A:[Data1]:[Data2]	[Data1] 007D0h – 03A98h [Data2] 0	[Data1] 2000K – 15000K [Data2] Valid	cam	OSJ:4A:[Data1]:[Data2]	OSJ:4A:0x[Data1]:[Data2]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:4A:007D0:0&res=1 If you specify a value that cannot be set, the number is rounded down.
	Response	OSJ:4A:[Data1]:[Data2]						
	Request	QSJ:4A						
	Response	OSJ:4A:[Data1]:[Data2]						
COLOR TEMP ACH INC	Control	OSJ:48:[Data]	1h – Ah	1 – 10	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:48:1&res=1 Increases the COLOR TEMP by [Data] steps.
	Response	OSJ:48:[Data]						
	Request	–						
	Response	–						
COLOR TEMP ACH DEC	Control	OSJ:49:[Data]	1h – Ah	1 – 10	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:49:1&res=1 Decreases the COLOR TEMP by [Data] steps.
	Response	OSJ:49:[Data]						
	Request	–						
	Response	–						
COLOR TEMP R GAIN ACH	Control	OSJ:4B:[Data]	670h – 800h – 990h	-400 – 0 – 400	cam	OSJ:4B:[Data]	OSJ:4B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:4B:800&res=1
	Response	OSJ:4B:[Data]						
	Request	QSJ:4B						
	Response	OSJ:4B:[Data]						
COLOR TEMP B GAIN ACH	Control	OSJ:4C:[Data]	670h – 800h – 990h	-400 – 0 – 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						
	Response	OSJ:4C:[Data]						
COLOR TEMP G AXIS ACH	Control	OSJ:4D:[Data]	670h – 800h – 990h	-400 – 0 – 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						
	Response	OSJ:4D:[Data]						
COLOR TEMP PRE SWITCH	Control	OSM:53:[Data]	0 1	OFF ON	cam	OSM:53:[Data]	OSM:53:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:53:0&res=1
	Response	OSM:53:[Data]						
	Request	QSM:53						
	Response	OSM:53:[Data]						
COLOR TEMP PRE	Control	OSM:54:[Data]	007D0h – 03A98h	2000K – 15000K	cam	OSM:54:[Data]	OSM:54:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:54:007D0&res=1 If an invalid value is specified, the fractional part will be truncated.
	Response	OSM:54:[Data]						
	Request	QSM:54						
	Response	OSM:54:[Data]						
COLOR TEMP R GAIN PRE	Control	OSM:55:[Data]	670h – 800h – 990h	-400 – 0 – 400	cam	OSM:55:[Data]	OSM:55:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:55:800&res=1
	Response	OSM:55:[Data]						
	Request	QSM:55						
	Response	OSM:55:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
COLOR TEMP B GAIN PRE	Control	OSM:56:[Data]	670h – 800h – 990h	-400 – 0 – 400	cam	OSM:56:[Data]	OSM:56:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:56:0&res=1
	Response	OSM:56:[Data]						
	Request	QSM:56						
	Response	OSM:56:[Data]						
COLOR TEMP G AXIS PRE	Control	OSM:57:[Data]	670h – 800h – 990h	-400 – 0 – 400	cam	OSM:57:[Data]	OSM:57:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:57:0&res=1
	Response	OSM:57:[Data]						
	Request	QSM:57						
	Response	OSM:57:[Data]						
G GAIN REL CONTROL SWITCH	Control	OSL:35:[Data]	0 1	OFF ON	cam	OSL:35:[Data]	OSL:35:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:35:1&res=1
	Response	OSL:35:[Data]						
	Request	QSL:35						
	Response	OSL:35:[Data]						
RGB GAIN PRESET R GAIN	Control	OSL:36:[Data]	418h – 800h – BE8h	-1000 – 0 – 1000	cam	OSL:36:[Data]	OSL:36:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:36:801&res=1
	Response	OSL:36:[Data]						
	Request	QSL:36						
	Response	OSL:36:[Data]						
RGB GAIN PRESET G GAIN	Control	OSL:37:[Data]	418h – 800h – BE8h	-1000 – 0 – 1000	cam	OSL:37:[Data]	OSL:37:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:37:801&res=1
	Response	OSL:37:[Data]						
	Request	QSL:37						
	Response	OSL:37:[Data]						
RGB GAIN PRESET B GAIN	Control	OSL:38:[Data]	418h – 800h – BE8h	-1000 – 0 – 1000	cam	OSL:38:[Data]	OSL:38:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:38:801&res=1
	Response	OSL:38:[Data]						
	Request	QSL:38						
	Response	OSL:38:[Data]						
RGB GAIN R GAIN ACH	Control	OSL:39:[Data]	418h – 800h – BE8h	-1000 – 0 – 1000	cam	OSL:39:[Data]	OSL:39:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:39:801&res=1
	Response	OSL:39:[Data]						
	Request	QSL:39						
	Response	OSL:39:[Data]						
RGB GAIN G GAIN ACH	Control	OSL:3A:[Data]	418h – 800h – BE8h	-1000 – 0 – 1000	cam	OSL:3A:[Data]	OSL:3A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:3A:801&res=1
	Response	OSL:3A:[Data]						
	Request	QSL:3A						
	Response	OSL:3A:[Data]						
RGB GAIN B GAIN ACH	Control	OSL:3B:[Data]	418h – 800h –	-1000 – 0 –	cam	OSL:3B:[Data]	OSL:3B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:3B:801&res=1
	Response	OSL:3B:[Data]						
	Request	QSL:3B						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
	Response	OSL:3B:[Data]	BE8h	1000				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
RGB GAIN GAIN OFFSET ACH	Control	OSJ:0C:[Data]	0 1	OFF ON	cam	OSJ:0C:[Data]	OSJ:0C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:0C:0&res=1
	Response	OSJ:0C:[Data]						
	Request	QSJ:0C						
	Response	OSJ:0C:[Data]						
FLARE	Control	OSA:11:[Data]	0 1	OFF ON	cam	OSA:11:[Data]	OSA:11:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:11:1&res=1
	Response	OSA:11:[Data]						
	Request	QSA:11						
	Response	OSA:11:[Data]						
MASTER FLARE	Control	OSL:40:[Data]	738h – 800h – 8C8h	-200 – 0 – 200	cam	OSL:40:[Data]	OSL:40:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:40:801&res=1
	Response	OSL:40:[Data]						
	Request	QSL:40						
	Response	OSL:40:[Data]						
R FLARE	Control	OSL:41:[Data]	738h – 800h – 8C8h	-200 – 0 – 200	cam	OSL:41:[Data]	OSL:41:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:41:801&res=1
	Response	OSL:41:[Data]						
	Request	QSL:41						
	Response	OSL:41:[Data]						
G FLARE	Control	OSL:42:[Data]	738h – 800h – 8C8h	-200 – 0 – 200	cam	OSL:42:[Data]	OSL:42:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:42:801&res=1
	Response	OSL:42:[Data]						
	Request	QSL:42						
	Response	OSL:42:[Data]						
B FLARE	Control	OSL:43:[Data]	738h – 800h – 8C8h	-200 – 0 – 200	cam	OSL:43:[Data]	OSL:43:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:43:801&res=1
	Response	OSL:43:[Data]						
	Request	QSL:43						
	Response	OSL:43:[Data]						
GAMMA	Control	OSA:0A:[Data]	0 1	OFF ON	cam	OSA:0A:[Data]	OSA:0A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:0A:1&res=1
	Response	OSA:0A:[Data]						
	Request	QSA:0A						
	Response	OSA:0A:[Data]						
GAMMA MODE SELECT	Control	OSJ:D7:[Data]	00 01 02 03	HD NORMAL CINEMA1 CINEMA2	cam	OSJ:D7:[Data]	OSJ:D7:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:D7:00&res=1
	Response	OSJ:D7:[Data]						
	Request	QSJ:D7						
	Response	OSJ:D7:[Data]						
MASTER GAMMA	Control	OSA:6A:[Data]	58h – 94h	0.15 – 0.75	cam	OSA:6A:[Data]	OSA:6A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:6A:67&res=1 Step : 0.01
	Response	OSA:6A:[Data]						
	Request	QSA:6A						
	Response	OSA:6A:[Data]						
OFFSET GAMMA	Control	OSM:44:[Data]	76h – 80h – 8Ah	-10 – 0 – +10	cam	OSM:44:[Data]	OSM:44:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:44:80&res=1
	Response	OSM:44:[Data]						
	Request	QSM:44						
	Response	OSM:44:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
R GAMMA	Control	OSI:35:[Data]	35h – 80h – CBh	−75 – 0 – +75	cam	OSI:35:[Data]	OSI:35:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:35:81&res=1
	Response	OSI:35:[Data]						
	Request	QSI:35						
	Response	OSI:35:[Data]						
B GAMMA	Control	OSI:36:[Data]	35h – 80h – CBh	−75 – 0 – +75	cam	OSI:36:[Data]	OSI:36:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:36:81&res=1
	Response	OSI:36:[Data]						
	Request	QSI:36						
	Response	OSI:36:[Data]						
BLACK GAMMA	Control	OSA:0B:[Data]	0 1	OFF ON	cam	OSA:0B:[Data]	OSA:0B:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:0B:1&res=1
	Response	OSA:0B:[Data]						
	Request	QSA:0B						
	Response	OSA:0B:[Data]						
MASTER BLACK GAMMA	Control	OSA:07:[Data]	50h – 80h – B0h	−48 – 0 – +48	cam	OSA:07:[Data]	OSA:07:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:07:81&res=1
	Response	OSA:07:[Data]						
	Request	QSA:07						
	Response	OSA:07:[Data]						
R BLACK GAMMA	Control	OSA:08:[Data]	6Ch – 80h – 94h	−20 – 0 – +20	cam	OSA:08:[Data]	OSA:08:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:08:81&res=1
	Response	OSA:08:[Data]						
	Request	QSA:08						
	Response	OSA:08:[Data]						
B BLACK GAMMA	Control	OSA:09:[Data]	6Ch – 80h – 94h	−20 – 0 – +20	cam	OSA:09:[Data]	OSA:09:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:09:81&res=1
	Response	OSA:09:[Data]						
	Request	QSA:09						
	Response	OSA:09:[Data]						
BLACK GAMMA RANGE	Control	OSJ:1B:[Data]	1 2 3	1 2 3	cam	OSJ:1B:[Data]	OSJ:1B:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:1B:1&res=1
	Response	OSJ:1B:[Data]						
	Request	QSJ:1B						
	Response	OSJ:1B:[Data]						
INITIAL GAMMA	Control	OSL:44:[Data]	8h 9h Ah	4.0 4.5 5.0	cam	OSL:44:[Data]	OSL:44:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:44:8&res=1
	Response	OSL:44:[Data]						
	Request	QSL:44						
	Response	OSL:44:[Data]						
KNEE	Control	OSL:45:[Data]	0 1	OFF ON	cam	OSL:45:[Data]	OSL:45:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:45:1&res=1
	Response	OSL:45:[Data]						
	Request	QSL:45						
	Response	OSL:45:[Data]						
KNEE MODE	Control	OSL:46:[Data]	0 1	MANUAL AUTO	cam	OSL:46:[Data]	OSL:46:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:46:1&res=1
	Response	OSL:46:[Data]						
	Request	QSL:46						
	Response	OSL:46:[Data]						
KNEE MODE	Control	OSA:2D:[Data]	0 1 2	OFF MANUAL AUTO	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]						
	Request	QSA:2D						
	Response	OSA:2D:[Data]						
KNEE MASTER POINT	Control	OSA:20:[Data]	4Ah – C2h	80.00% – 110.00%	cam	OSA:20:[Data]	OSA:20:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:20:4A&res=1 Step：0.25%
	Response	OSA:20:[Data]						
	Request	QSA:20						
	Response	OSA:20:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
KNEE R POINT	Control	OSA:22:[Data]	1Ch – 80h – E4h	-25.00% – 0.00% – +25.00%	cam	OSA:22:[Data]	OSA:22:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:22:80&res=1 Step：0.25%
	Response	OSA:22:[Data]						
	Request	QSA:22						
	Response	OSA:22:[Data]						
KNEE B POINT	Control	OSA:23:[Data]	1Ch – 80h – E4h	-25.00% – 0.00% – +25.00%	cam	OSA:23:[Data]	OSA:23:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:23:80&res=1 Step：0.25%
	Response	OSA:23:[Data]						
	Request	QSA:23						
	Response	OSA:23:[Data]						
KNEE MASTER SLOPE	Control	OSA:24:[Data]	00h – C7h	0 – 199	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]						
	Request	QSA:24						
	Response	OSA:24:[Data]						
KNEE R SLOPE	Control	OSA:26:[Data]	1Dh – 80h – E3h	-99 – 0 – +99	cam	OSA:26:[Data]	OSA:26:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:26:81&res=1
	Response	OSA:26:[Data]						
	Request	QSA:26						
	Response	OSA:26:[Data]						
KNEE B SLOPE	Control	OSA:27:[Data]	1Dh – 80h – E3h	-99 – 0 – +99	cam	OSA:27:[Data]	OSA:27:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:27:81&res=1
	Response	OSA:27:[Data]						
	Request	QSA:27						
	Response	OSA:27:[Data]						
AUTO KNEE RESPONSE	Control	OSG:97:[Data]	1 – 8	1 – 8	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]						
	Request	QSG:97						
	Response	OSG:97:[Data]						
WHITE CLIP	Control	OSA:2E:[Data]	0 1	OFF ON	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]						
	Request	QSA:2E						
	Response	OSA:2E:[Data]						
MASTER WHITE CLIP LEVEL	Control	OSA:2A:[Data]	50h – 6Dh	80% – 109%	cam	OSA:2A:[Data]	OSA:2A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2A:50&res=1 Step：1%
	Response	OSA:2A:[Data]						
	Request	QSA:2A						
	Response	OSA:2A:[Data]						
R WHITE CLIP LEVEL	Control	OSL:47:[Data]	71h – 80h – 8Fh	-15% – 0% – 15%	cam	OSL:47:[Data]	OSL:47:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:47:81&res=1
	Response	OSL:47:[Data]						
	Request	QSL:47						
	Response	OSL:47:[Data]						
B WHITE CLIP LEVEL	Control	OSL:48:[Data]	71h – 80h – 8Fh	-15% – 0% – 15%	cam	OSL:48:[Data]	OSL:48:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:48:81&res=1
	Response	OSL:48:[Data]						
	Request	QSL:48						
	Response	OSL:48:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
HI-COLOR	Control	OSL:49:[Data]	0 1	OFF ON	cam	OSL:49:[Data]	OSL:49:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:49:1&res=1
	Response	OSL:49:[Data]						
	Request	QSL:49						
	Response	OSL:49:[Data]						
HI-COLOR LEVEL	Control	OSL:4A:[Data]	01h – 20h	1 – 32	cam	OSL:4A:[Data]	OSL:4A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:4A:01&res=1
	Response	OSL:4A:[Data]						
	Request	QSL:4A						
	Response	OSL:4A:[Data]						
DRS	Control	OSA:0D:[Data]	0 1	OFF ON	cam	OSA:0D:[Data]	OSA:0D:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:0D:1&res=1
	Response	OSA:0D:[Data]						
	Request	QSA:0D						
	Response	OSA:0D:[Data]						
DRS EFFECT DEPTH	Control	OSL:4B:[Data]	1 – 5	1 – 5	cam	OSL:4B:[Data]	OSL:4B:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:4B:1&res=1
	Response	OSL:4B:[Data]						
	Request	QSL:4B						
	Response	OSL:4B:[Data]						
DETAIL	Control	ODT:[Data]	0 1 2	OFF ON ON	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]						
MASTER DETAIL	Control	OSA:30:[Data]	61h – 80h – 9Fh	–31 – 0 – +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]						
	Request	QSA:30						
	Response	OSA:30:[Data]						
DETAIL PEAK FREQUENCY	Control	OSG:30:[Data]	01h – 08h	1 – 8	cam	OSG:30:[Data]	OSG:30:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:30:01&res=1
	Response	OSG:30:[Data]						
	Request	QSG:30						
	Response	OSG:30:[Data]						
DETAIL CRISP	Control	OSD:22:[Data]	00h – 3Fh	0 – 63	cam	OSD:22:[Data]	OSD:22:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:22:01&res=1
	Response	OSD:22:[Data]						
	Request	QSD:22						
	Response	OSD:22:[Data]						
DETAIL GAIN(+)	Control	OSA:38:[Data]	61h – 80h – 9Fh	–31 – 0 – +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						
	Response	OSA:38:[Data]						
DETAIL GAIN(–)	Control	OSA:39:[Data]	61h – 80h – 9Fh	–31 – 0 – +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						
	Response	OSA:39:[Data]						
DETAIL CLIP(+)	Control	OSG:40:[Data]	00h – 3Fh	0 – 63	cam	OSG:40:[Data]	OSG:40:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:40:01&res=1
	Response	OSG:40:[Data]						
	Request	QSG:40						
	Response	OSG:40:[Data]						
DETAIL CLIP(–)	Control	OSG:41:[Data]	00h – 3Fh	0 – 63	cam	OSG:41:[Data]	OSG:41:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:41:01&res=1
	Response	OSG:41:[Data]						
	Request	QSG:41						
	Response	OSG:41:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
DETAIL KNEE APERTURE LEVEL	Control	OSG:3F:[Data]	00h – 27h	0 – 39	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						
	Response	OSG:3F:[Data]						
DETAIL KNEE	Control	OSL:4C:[Data]	00h – 0Fh	00 – 15	cam	OSL:4C:[Data]	OSL:4C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:4C:01&res=1
	Response	OSL:4C:[Data]						
	Request	QSL:4C						
	Response	OSL:4C:[Data]						
DETAIL LEVEL DEPENDENT SWITCH	Control	OSG:3E:[Data]	0 1	OFF ON	cam	OSG:3E:[Data]	OSG:3E:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:3E:1&res=1
	Response	OSG:3E:[Data]						
	Request	QSG:3E						
	Response	OSG:3E:[Data]						
DETAIL LEVEL DEPENDENT	Control	OSD:26:[Data]	00h – 0Fh	00 – 15	cam	OSD:26:[Data]	OSD:26:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:26:01&res=1
	Response	OSD:26:[Data]						
	Request	QSD:26						
	Response	OSD:26:[Data]						
DARK DETAIL SWITCH	Control	OSL:4D:[Data]	0 1	OFF ON	cam	OSL:4D:[Data]	OSL:4D:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:4D:1&res=1
	Response	OSL:4D:[Data]						
	Request	QSL:4D						
	Response	OSL:4D:[Data]						
DARK DETAIL	Control	OSL:4E:[Data]	0 – 7	0 – 7	cam	OSL:4E:[Data]	OSL:4E:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:4E:1&res=1
	Response	OSL:4E:[Data]						
	Request	QSL:4E						
	Response	OSL:4E:[Data]						
DOWNCON CHROMA LEVEL SWITCH	Control	OSL:4F:[Data]	0 1	OFF ON	cam	OSL:4F:[Data]	OSL:4F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:4F:1&res=1
	Response	OSL:4F:[Data]						
	Request	QSL:4F						
	Response	OSL:4F:[Data]						
DOWNCON CHROMA LEVEL	Control	OSL:50:[Data]	1Ch – 80h – D0h	-100% – 0% – 80%	cam	OSL:50:[Data]	OSL:50:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:50:81&res=1
	Response	OSL:50:[Data]						
	Request	QSL:50						
	Response	OSL:50:[Data]						
DOWNCON DETAIL	Control	OSJ:14:[Data]	0 1	OFF ON	cam	OSJ:14:[Data]	OSJ:14:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:14:0&res=1
	Response	OSJ:14:[Data]						
	Request	QSJ:14						
	Response	OSJ:14:[Data]						
DOWNCON MASTER DETAIL	Control	OSJ:15:[Data]	61h – 80h –	-31 – 0 –	cam	OSJ:15:[Data]	OSJ:15:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:15:80&res=1
	Response	OSJ:15:[Data]						
	Request	QSJ:15						
	Response	OSJ:15:[Data]						
DOWNCON H DETAIL LEVEL	Control	OSL:51:[Data]	80h – BFh	00 – 63	cam	OSL:51:[Data]	OSL:51:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:51:81&res=1
	Response	OSL:51:[Data]						
	Request	QSL:51						
	Response	OSL:51:[Data]						
DOWNCON V DETAIL LEVEL	Control	OSJ:17:[Data]	80h – BFh	00 – 63	cam	OSJ:17:[Data]	OSJ:17:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:17:80&res=1
	Response	OSJ:17:[Data]						
	Request	QSJ:17						
	Response	OSJ:17:[Data]						
DOWNCON PEAK FREQUENCY	Control	OSL:52:[Data]	07Ch – 173h	12.4MHz – 37.1MHz	cam	OSL:52:[Data]	OSL:52:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:52:07C&res=1 ・[Data] is 10 times the set value converted to hexadecimal ・Only the following setting values can be set. 12.4, 12.5, 12.7, 12.9, 13.0, 13.3, 13.6, 13.9, 14.2, 14.6, 15.0, 15.5, 16.1, 16.7, 17.3, 18.3, 18.6, 18.8, 19.0, 19.2, 19.5, 19.9, 20.3, 20.9, 21.5, 22.4, 23.6, 25.4, 28.6, 37.1MHz
	Response	OSL:52:[Data]						
	Request	QSL:52						
	Response	OSL:52:[Data]						
DOWNCON V DETAIL FREQUENCY	Control	OSL:53:[Data]	00h – 1Fh	00 – 31	cam	OSL:53:[Data]	OSL:53:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:53:01&res=1
	Response	OSL:53:[Data]						
	Request	QSL:53						
	Response	OSL:53:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
DOWNCON CRISP	Control	OSL:54:[Data]	80h – BFh	00 – 63	cam	OSL:54:[Data]	OSL:54:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:54:81&res=1
	Response	OSL:54:[Data]						
	Request	QSL:54						
	Response	OSL:54:[Data]						
DOWNCON DETAIL CLIP(+)	Control	OSL:57:[Data]	80h – BFh	00 – 63	cam	OSL:57:[Data]	OSL:57:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:57:81&res=1
	Response	OSL:57:[Data]						
	Request	QSL:57						
	Response	OSL:57:[Data]						
DOWNCON DETAIL CLIP(–)	Control	OSL:58:[Data]	80h – BFh	00 – 63	cam	OSL:58:[Data]	OSL:58:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:58:81&res=1
	Response	OSL:58:[Data]						
	Request	QSL:58						
	Response	OSL:58:[Data]						
DOWNCON KNEE APERTURE LEVEL	Control	OSL:5A:[Data]	00h – 27h	0 – 39	cam	OSL:5A:[Data]	OSL:5A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:5A:01&res=1
	Response	OSL:5A:[Data]						
	Request	QSL:5A						
	Response	OSL:5A:[Data]						
DOWNCON DETAIL KNEE	Control	OSL:5B:[Data]	00h – 0Fh	00 – 15	cam	OSL:5B:[Data]	OSL:5B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:5B:01&res=1
	Response	OSL:5B:[Data]						
	Request	QSL:5B						
	Response	OSL:5B:[Data]						
DOWNCON LEVEL DEPENDENT SWITCH	Control	OSL:5C:[Data]	0 1	OFF ON	cam	OSL:5C:[Data]	OSL:5C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:5C:1&res=1
	Response	OSL:5C:[Data]						
	Request	QSL:5C						
	Response	OSL:5C:[Data]						
DOWNCON LEVEL DEPENDENT	Control	OSL:5D:[Data]	00h – 0Fh	00 – 15	cam	OSL:5D:[Data]	OSL:5D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:5D:01&res=1
	Response	OSL:5D:[Data]						
	Request	QSL:5D						
	Response	OSL:5D:[Data]						
DOWNCON DARK DETAIL SWITCH	Control	OSL:5E:[Data]	0 1	OFF ON	cam	OSL:5E:[Data]	OSL:5E:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:5E:1&res=1
	Response	OSL:5E:[Data]						
	Request	QSL:5E						
	Response	OSL:5E:[Data]						
DOWNCON DARK DETAIL	Control	OSL:5F:[Data]	0 – 7	0 – 7	cam	OSL:5F:[Data]	OSL:5F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:5F:1&res=1
	Response	OSL:5F:[Data]						
	Request	QSL:5F						
	Response	OSL:5F:[Data]						
DOWNCON SKIN TONE DETAIL	Control	OSL:60:[Data]	0 1	OFF ON	cam	OSL:60:[Data]	OSL:60:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:60:1&res=1
	Response	OSL:60:[Data]						
	Request	QSL:60						
	Response	OSL:60:[Data]						
DOWNCON SKIN TONE DETAIL MEMORY SELECT	Control	OSL:B1:[Data]	0 1 2	A B C	cam	OSL:B1:[Data]	OSL:B1:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:B1:1&res=1
	Response	OSL:B1:[Data]						
	Request	QSL:B1						
	Response	OSL:B1:[Data]						
DOWNCON ZEBRA	Control	OSL:61:[Data]	0 1	OFF ON	cam	OSL:61:[Data]	OSL:61:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:61:1&res=1
	Response	OSL:61:[Data]						
	Request	QSL:61						
	Response	OSL:61:[Data]						
DOWNCON ZEBRA EFFECT MEMORY	Control	OSL:62:[Data]	0 1 2 3 4 5 6	A B C A+B A+C B+C A+B+C	cam	OSL:62:[Data]	OSL:62:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:62:1&res=1
	Response	OSL:62:[Data]						
	Request	QSL:62						
	Response	OSL:62:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
DOWNCON SKIN TONE EFFECT MEMORY	Control	OSL:63:[Data]	0 1 2 3 4 5 6	A B C A+B A+C B+C A+B+C	cam	OSL:63:[Data]	OSL:63:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:63:1&res=1
	Response	OSL:63:[Data]						
	Request	QSL:63						
	Response	OSL:63:[Data]						
DOWNCON SKIN TONE CRISP	Control	OSL:64:[Data]	80h – 88h	0 – 8	cam	OSL:64:[Data]	OSL:64:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:64:81&res=1
	Response	OSL:64:[Data]						
	Request	QSL:64						
	Response	OSL:64:[Data]						
DOWNCON I CENTER	Control	OSL:65:[Data]	00h – FFh	0 – 255	cam	OSL:65:[Data]	OSL:65:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:65:01&res=1
	Response	OSL:65:[Data]						
	Request	QSL:65						
	Response	OSL:65:[Data]						
DOWNCON I WIDTH	Control	OSL:66:[Data]	00h – FFh	0 – 255	cam	OSL:66:[Data]	OSL:66:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:66:01&res=1
	Response	OSL:66:[Data]						
	Request	QSL:66						
	Response	OSL:66:[Data]						
DOWNCON Q WIDTH	Control	OSL:67:[Data]	00h – 7Fh	0 – 127	cam	OSL:67:[Data]	OSL:67:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:67:01&res=1
	Response	OSL:67:[Data]						
	Request	QSL:67						
	Response	OSL:67:[Data]						
DOWNCON Q PHASE	Control	OSL:68:[Data]	000h – 167h	0 – 359	cam	OSL:68:[Data]	OSL:68:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:68:001&res=1
	Response	OSL:68:[Data]						
	Request	QSL:68						
	Response	OSL:68:[Data]						
SKIN TONE DETAIL	Control	OSA:40:[Data]	0 1	OFF ON	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]						
	Request	QSA:40						
	Response	OSA:40:[Data]						
SKIN TONE DETAIL SKIN GET	Control	OSM:58:[Data]	0 1	OK ACTIVE	cam	OSM:58:[Data]	OSM:58:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:58:0&res=1 Ignore [Data] when control.
	Response	OSM:58:[Data]						
	Request	QSM:58						
	Response	OSM:58:[Data]						
SKIN TONE DETAIL MEMORY SELECT	Control	OSL:69:[Data]	0 1 2	A B C	cam	OSL:69:[Data]	OSL:69:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:69:1&res=1
	Response	OSL:69:[Data]						
	Request	QSL:69						
	Response	OSL:69:[Data]						
SKIN TONE DETAIL CURSOR	Control	OSM:59:[Data]	0 1	OFF ON	cam	OSM:59:[Data]	OSM:59:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:59:0&res=1
	Response	OSM:59:[Data]						
	Request	QSM:59						
	Response	OSM:59:[Data]						
SKIN TONE DETAIL H POSITION	Control	OSG:44:[Data]	000h – 190h	0 – 100.00% (0.25% step)	cam	OSG:44:[Data]	OSG:44:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:44:000&res=1
	Response	OSG:44:[Data]						
	Request	QSG:44						
	Response	OSG:44:[Data]						
SKIN TONE DETAIL V POSITION	Control	OSG:45:[Data]	000h – 190h	0 – 100.00% (0.25% step)	cam	OSG:45:[Data]	OSG:45:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:45:000&res=1
	Response	OSG:45:[Data]						
	Request	QSG:45						
	Response	OSG:45:[Data]						
ZEBRA	Control	OSA:49:[Data]	0 1	OFF ON	cam	OSA:49:[Data]	OSA:49:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:49:1&res=1
	Response	OSA:49:[Data]						
	Request	QSA:49						
	Response	OSA:49:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
ZEBRA EFFECT MEMORY	Control	OSL:6A:[Data]	0 1 2 3 4 5 6	A B C A+B A+C B+C A+B+C	cam	OSL:6A:[Data]	OSL:6A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:6A:1&res=1
	Response	OSL:6A:[Data]						
	Request	QSL:6A						
	Response	OSL:6A:[Data]						
SKIN TONE EFFECT MEMORY	Control	OSG:48:[Data]	0 1 2 3 4 5 6	A B C A+B A+C B+C A+B+C	cam	OSG:48:[Data]	OSG:48:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:48:1&res=1
	Response	OSG:48:[Data]						
	Request	QSG:48						
	Response	OSG:48:[Data]						
SKIN TONE CRISP	Control	OSG:49:[Data]	41h – 80h – BFh	-63 – 0 – +63	cam	OSG:49:[Data]	OSG:49:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:49:81&res=1
	Response	OSG:49:[Data]						
	Request	QSG:49						
	Response	OSG:49:[Data]						
SKIN TONE DETAIL I CENTER	Control	OSA:45:[Data]	00h – FFh	0 – 255	cam	OSA:45:[Data]	OSA:45:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:45:01&res=1
	Response	OSA:45:[Data]						
	Request	QSA:45						
	Response	OSA:45:[Data]						
SKIN TONE DETAIL I WIDTH	Control	OSA:46:[Data]	00h – FFh	0 – 255	cam	OSA:46:[Data]	OSA:46:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:46:01&res=1
	Response	OSA:46:[Data]						
	Request	QSA:46						
	Response	OSA:46:[Data]						
SKIN TONE DETAIL Q WIDTH	Control	OSA:47:[Data]	00h – FFh	0 – 255	cam	OSA:47:[Data]	OSA:47:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:47:01&res=1
	Response	OSA:47:[Data]						
	Request	QSA:47						
	Response	OSA:47:[Data]						
SKIN TONE DETAIL Q PHASE	Control	OSG:4F:[Data]	000h – 167h	0 – 359	cam	OSG:4F:[Data]	OSG:4F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:4F:001&res=1
	Response	OSG:4F:[Data]						
	Request	QSG:4F						
	Response	OSG:4F:[Data]						
PRESET MATRIX	Control	OSE:31:[Data]	0 1 2 3 4 5 6	NORMAL CINEMA1 CINEMA2 USER HD STD1 STD2	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]						
MATRIX	Control	OSA:84:[Data]	0 1	OFF ON	cam	OSA:84:[Data]	OSA:84:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:84:1&res=1
	Response	OSA:84:[Data]						
	Request	QSA:84						
	Response	OSA:84:[Data]						
LINEAR MATRIX	Control	OSL:6C:[Data]	0 1	OFF ON	cam	OSL:6C:[Data]	OSL:6C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:6C:1&res=1
	Response	OSL:6C:[Data]						
	Request	QSL:6C						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
	Response	OSL:6C:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
LINEAR TABLE	Control	OSA:00:[Data]	0 1	A B	cam	OSA:00:[Data]	OSA:00:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:00:1&res=1
	Response	OSA:00:[Data]						
	Request	QSA:00						
	Response	OSA:00:[Data]						
COLOR CORRECT	Control	OSA:85:[Data]	0 1	OFF ON	cam	OSA:85:[Data]	OSA:85:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:85:1&res=1
	Response	OSA:85:[Data]						
	Request	QSA:85						
	Response	OSA:85:[Data]						
COLOR CORRECT TABLE	Control	OSL:6E:[Data]	0 1	A B	cam	OSL:6E:[Data]	OSL:6E:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:6E:1&res=1
	Response	OSL:6E:[Data]						
	Request	QSL:6E						
	Response	OSL:6E:[Data]						
MATRIX(R-G)_N	Control	OSD:2F:[Data]	00h – 1Fh – 3Eh	-31 – 0 – +31	cam	OSD:2F:[Data]	OSD:2F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:2F:1F&res=1
	Response	OSD:2F:[Data]						
	Request	QSD:2F						
	Response	OSD:2F:[Data]						
MATRIX(R-G)_P	Control	OSL:6F:[Data]	00h – 1Fh – 3Eh	-31 – 0 – +31	cam	OSL:6F:[Data]	OSL:6F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:6F:1F&res=1
	Response	OSL:6F:[Data]						
	Request	QSL:6F						
	Response	OSL:6F:[Data]						
MATRIX(R-B)_N	Control	OSD:30:[Data]	00h – 1Fh – 3Eh	-31 – 0 – +31	cam	OSD:30:[Data]	OSD:30:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:30:1F&res=1
	Response	OSD:30:[Data]						
	Request	QSD:30						
	Response	OSD:30:[Data]						
MATRIX(R-B)_P	Control	OSL:70:[Data]	00h – 1Fh – 3Eh	-31 – 0 – +31	cam	OSL:70:[Data]	OSL:70:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:70:1F&res=1
	Response	OSL:70:[Data]						
	Request	QSL:70						
	Response	OSL:70:[Data]						
MATRIX(G-R)_N	Control	OSD:31:[Data]	00h – 1Fh – 3Eh	-31 – 0 – +31	cam	OSD:31:[Data]	OSD:31:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:31:1F&res=1
	Response	OSD:31:[Data]						
	Request	QSD:31						
	Response	OSD:31:[Data]						
MATRIX(G-R)_P	Control	OSL:71:[Data]	00h – 1Fh – 3Eh	-31 – 0 – +31	cam	OSL:71:[Data]	OSL:71:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:71:1F&res=1
	Response	OSL:71:[Data]						
	Request	QSL:71						
	Response	OSL:71:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
MATRIX(G-B)_N	Control	OSD:32:[Data]	00h – 1Fh – 3Eh	−31 – 0 – +31	cam	OSD:32:[Data]	OSD:32:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:32:1F&res=1
	Response	OSD:32:[Data]						
	Request	QSD:32						
	Response	OSD:32:[Data]						
MATRIX(G-B)_P	Control	OSL:72:[Data]	00h – 1Fh – 3Eh	−31 – 0 – +31	cam	OSL:72:[Data]	OSL:72:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:72:1F&res=1
	Response	OSL:72:[Data]						
	Request	QSL:72						
	Response	OSL:72:[Data]						
MATRIX(B-R)_N	Control	OSD:33:[Data]	00h – 1Fh – 3Eh	−31 – 0 – +31	cam	OSD:33:[Data]	OSD:33:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:33:1F&res=1
	Response	OSD:33:[Data]						
	Request	QSD:33						
	Response	OSD:33:[Data]						
MATRIX(B-R)_P	Control	OSL:73:[Data]	00h – 1Fh – 3Eh	−31 – 0 – +31	cam	OSL:73:[Data]	OSL:73:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:73:1F&res=1
	Response	OSL:73:[Data]						
	Request	QSL:73						
	Response	OSL:73:[Data]						
MATRIX(B-G)_N	Control	OSD:34:[Data]	00h – 1Fh – 3Eh	−31 – 0 – +31	cam	OSD:34:[Data]	OSD:34:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:34:1F&res=1
	Response	OSD:34:[Data]						
	Request	QSD:34						
	Response	OSD:34:[Data]						
MATRIX(B-G)_P	Control	OSL:74:[Data]	00h – 1Fh – 3Eh	−31 – 0 – +31	cam	OSL:74:[Data]	OSL:74:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:74:1F&res=1
	Response	OSL:74:[Data]						
	Request	QSL:74						
	Response	OSL:74:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
REQUEST MATRIX (R/G/B/CY/MG/YL)	Control	-	[Data1]R-X 701h-8FFh [Data2]R-Y 701h-8FFh [Data3]G-X 701h-8FFh [Data4]G-Y 701h-8FFh [Data5]B-X 701h-8FFh [Data6]B-Y 701h-8FFh [Data7]CY-X 701h-8FFh [Data8]CY-Y 701h-8FFh [Data9]MG-X 701h-8FFh [Data10]MG-Y 701h-8FFh [Data11]YL-X 701h-8FFh [Data12]YL-Y 701h-8FFh	[Data1]R-X -255～255 [Data2]R-Y -255～255 [Data3]G-X -255～255 [Data4]G-Y -255～255 [Data5]B-X -255～255 [Data6]B-Y -255～255 [Data7]CY-X -255～255 [Data8]CY-Y -255～255 [Data9]MG-X -255～255 [Data10]MG-Y -255～255 [Data11]YL-X -255～255 [Data12]YL-Y -255～255	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSL:B2&res=1
	Response	-						
	Request	QSL:B2						
	Response	OSL:B2:[Data1]:[Data2][Data3]:[Data4]:[Data5]:[Data6]:[Data7]:[Data8]:[Data9]:[Data10]:[Data11]:[Data12]						
COLOR CORRECTION G SATURATION	Control	OSD:8E:[Data]	01h - 80h - FEh	-127 - 0 - 126	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						
	Response	OSD:8E:[Data]						
COLOR CORRECTION G_CY SATURATION	Control	OSD:90:[Data]	01h - 80h - FEh	-127 - 0 - 126	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						
	Response	OSD:90:[Data]						
COLOR CORRECTION CY SATURATION	Control	OSD:92:[Data]	01h - 80h - FEh	-127 - 0 - 126	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						
	Response	OSD:92:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
COLOR CORRECTION CY_B SATURATION	Control	OSD:94:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:94:[Data]						
COLOR CORRECTION B SATURATION	Control	OSD:96:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:96:[Data]						
COLOR CORRECTION B_MG SATURATION	Control	OSD:80:[Data]	01h – 80h – FEh	-127 – 0 – 126	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 MG SATURATION	Control	OSD:82:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:82:[Data]						
COLOR CORRECTION MG_R SATURATION	Control	OSD:84:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:84:[Data]						
COLOR CORRECTION R SATURATION	Control	OSD:86:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:86:[Data]						
COLOR CORRECTION R_YE SATURATION	Control	OSD:88:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:88:[Data]						
COLOR CORRECTION YE SATURATION	Control	OSD:8A:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:8A:[Data]						
COLOR CORRECTION YE_G SATURATION	Control	OSD:8C:[Data]	01h – 80h –	-127 – 0 –	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						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
	Response	OSD:8C:[Data]	FEh	126				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
COLOR CORRECTION G PHASE	Control	OSD:8F:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:8F:[Data]						
COLOR CORRECTION G_CY PHASE	Control	OSD:91:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:91:[Data]						
COLOR CORRECTION CY PHASE	Control	OSD:93:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:93:[Data]						
COLOR CORRECTION CY_B PHASE	Control	OSD:95:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:95:[Data]						
COLOR CORRECTION B PHASE	Control	OSD:97:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:97:[Data]						
COLOR CORRECTION B_MG PHASE	Control	OSD:81:[Data]	01h – 80h – FEh	-127 – 0 – 126	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]						
COLOR CORRECTION MG PHASE	Control	OSD:83:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:83:[Data]						
COLOR CORRECTION MG_R PHASE	Control	OSD:85:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:85:[Data]						
COLOR CORRECTION R PHASE	Control	OSD:87:[Data]	01h – 80h –	-127 – 0 –	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						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
	Response	OSD:87:[Data]	FEh	126				

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
COLOR CORRECTION R_YE PHASE	Control	OSD:89:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:89:[Data]						
COLOR CORRECTION YE PHASE	Control	OSD:8B:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:8B:[Data]						
COLOR CORRECTION YE_G PHASE	Control	OSD:8D:[Data]	01h – 80h – FEh	-127 – 0 – 126	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						
	Response	OSD:8D:[Data]						
DNR	Control	OSD:3A:[Data]	00 01 02	OFF ON ON	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]						
	Request	QSD:3A						
	Response	OSD:3A:[Data]						
DNR LEVEL	Control	OSG:B5:[Data]	1 – 5	1 – 5	cam	OSG:B5:[Data]	OSG:B5:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:B5:1&res=1
	Response	OSG:B5:[Data]						
	Request	QSG:B5						
	Response	OSG:B5:[Data]						
ROP CONTROL CONTROL ROTATION MODE	Control	OSM:5E:[Data]	0 1	MODE1 MODE2	cam	OSM:5E:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:5E:0&res=1
	Response	OSM:5E:[Data]						
	Request	QSM:5E						
	Response	OSM:5E:[Data]						
HDR PAINT HLG MODE	Control	OSI:39:[Data]	0 1	FIX VAR	cam	OSI:39:[Data]	OSI:39:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:39:1&res=1
	Response	OSI:39:[Data]						
	Request	QSI:39						
	Response	OSI:39:[Data]						
HDR PAINT SDR CONVERT MODE	Control	OSI:3A:[Data]	0 1	FIX VAR	cam	OSI:3A:[Data]	OSI:3A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:3A:1&res=1
	Response	OSI:3A:[Data]						
	Request	QSI:3A						
	Response	OSI:3A:[Data]						
HDR PAINT BLACK GAMMA	Control	OSI:3C:[Data]	0 1	OFF ON	cam	OSI:3C:[Data]	OSI:3C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:3C:1&res=1
	Response	OSI:3C:[Data]						
	Request	QSI:3C						
	Response	OSI:3C:[Data]						
HDR PAINT MASTER BLACK GAMMA	Control	OSI:3D:[Data]	60h – 80h – A0h	-32 – 0 – +32	cam	OSI:3D:[Data]	OSI:3D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:3D:81&res=1
	Response	OSI:3D:[Data]						
	Request	QSI:3D						
	Response	OSI:3D:[Data]						
HDR PAINT R BLACK GAMMA	Control	OSI:3E:[Data]	60h – 80h – A0h	-32 – 0 – +32	cam	OSI:3E:[Data]	OSI:3E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:3E:81&res=1
	Response	OSI:3E:[Data]						
	Request	QSI:3E						
	Response	OSI:3E:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
HDR PAINT B BRACK GAMMA	Control	OSI:3F:[Data]	60h – 80h – A0h	-32 – 0 – +32	cam	OSI:3F:[Data]	OSI:3F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:3F:81&res=1
	Response	OSI:3F:[Data]						
	Request	QSI:3F						
	Response	OSI:3F:[Data]						
HDR PAINT KNEE	Control	OSI:40:[Data]	0 1	OFF ON	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]						
	Request	QSI:40						
	Response	OSI:40:[Data]						
HDR PAINT KNEE POINT	Control	OSI:41:[Data]	30h – 80h – D0h	60.00% – 80.00% – 100.00%	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]						
	Request	QSI:41						
	Response	OSI:41:[Data]						
HDR PAINT KNEE SLOPE	Control	OSI:42:[Data]	00h – C7h	0 – 199	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]						
	Request	QSI:42						
	Response	OSI:42:[Data]						
HDR PAINT SDR CONVERT GAIN	Control	OSI:43:[Data]	74h – 7Bh 80h	-12dB – -5dB 0dB	cam	OSI:43:[Data]	OSI:43:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:43:74&res=1
	Response	OSI:43:[Data]						
	Request	QSI:43						
	Response	OSI:43:[Data]						
HDR PAINT SDR CONVERT POINT	Control	OSL:88:[Data]	00h – 64h	0 – 100	cam	OSL:88:[Data]	OSL:88:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:88:01&res=1
	Response	OSL:88:[Data]						
	Request	QSL:88						
	Response	OSL:88:[Data]						
HDR PAINT SDR CONVERT SLOPE	Control	OSL:89:[Data]	00h – 7Fh	0 – 127	cam	OSL:89:[Data]	OSL:89:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:89:01&res=1
	Response	OSL:89:[Data]						
	Request	QSL:89						
	Response	OSL:89:[Data]						
HDR PAINT SDR CONVERT BLACK OFFSET	Control	OSL:8A:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:8A:[Data]	OSL:8A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:8A:81&res=1
	Response	OSL:8A:[Data]						
	Request	QSL:8A						
	Response	OSL:8A:[Data]						

LENS

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
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]						
ND FILTER	Control	OFT:[Data]	0 1 2 3	THROUGH 1/4 1/16 1/64	cam	OFT:[Data]	OFT:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OFT:0&res=1
	Response	OFT:[Data]						
	Request	QFT						
	Response	OFT:[Data]						
DIGITAL ZOOM MAGNIFICATION	Control	OSE:76:[Data]	0100 – 9999	x1.00 – x99.99	cam	OSE:76:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:76:0100&res=1
	Response	OSE:76:[Data]						
	Request	QSE:76						
	Response	OSE:76:[Data]						
ZOOM SPEED CONTROL	Control	OSM:75:[Data]	01 – 49 50 51 – 99	WIDE MAX. SPEED – WIDE MIN. SPEED ZOOM STOP TELE MIN. SPEED – TELE MAX. SPEED	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:75:50&res=1
	Response	OSM:75:[Data]						
	Request	–						
	Response	–						
ZOOM POSITION CONTROL	Control	LZP:[Data]	555h – FFFh	WIDE – TELE	cam	LZP:[Data]	OZP:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=LZP:555&res=1
	Response	LZP:[Data]						
	Request	QZP						
	Response	OZP:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
FOCUS SPEED CONTROL	Control	OSM:76:[Data]	01 – 49 50 51 – 99	NEAR MAX. SPEED – NEAR MIN. SPEED STOP FAR MIN. SPEED – FAR MAX. SPEED	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:76:50&res=1
	Response	OSM:76:[Data]						
	Request	–						
	Response	–						
FOCUS POSITION CONTROL	Control	LFP:[Data]	555h – FFFh	NEAR – FAR	cam	LFP:[Data]	OFP:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=LFP:555&res=1
	Response	LFP:[Data]						
	Request	QFP						
	Response	OFP:[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]						
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	cam	OSI:18:[Data1]:[Data2]:[Data3]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSI:18&res=1 When LENS POSITION INFORMATION CONTROL is ON, send an update notification. Update notifications must be sent at 300 ms intervals (only when there is a change in zoom, focus, or iris. Note: not for every control operation).
	Response	–						
	Request	QSI:18						
	Response	OSI:18:[Data1]:[Data2]:[Data3]						
LENS POSITION INFORMATION CONTROL	Control	OSM:77:[Data]	0 1	OFF ON	cam	OSM:77:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSM:77&res=1
	Response	OSM:77:[Data]						
	Request	QSM:77						
	Response	OSM:77:[Data]						
REQUEST IRIS F NO.	Control	–	0Eh – A0h – FFh	F1.4 – F16 – CLOSE	cam	OIF:[Data]	OIF:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QIF&res=1
	Response	–						
	Request	QIF						
	Response	OIF:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
IRIS LENS EXT COMP SW	Control	OSM:5F:[Data]	0 1	OFF ON	cam	OSM:5F:[Data]	OSM:5F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:5F:0&res=1
	Response	OSM:5F:[Data]						
	Request	QSM:5F						
	Response	OSM:5F:[Data]						
IRIS LENS EXT COMP LEVEL	Control	OSM:60:[Data]	1Ch – 80h – E4h	-100 – 0 – 100	cam	OSM:60:[Data]	OSM:60:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:60:80&res=1
	Response	OSM:60:[Data]						
	Request	QSM:60						
	Response	OSM:60:[Data]						

MONITOR DISPLAY

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
STATUS INDICATOR STATUS(AUTO)	Control Response Request Response	OSA:88:[Data] OSA:88:[Data] QSA:88 OSA:88:[Data]	0 1	OFF ON	cam	OSA:88:[Data]	OSA:88:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:88:0&res=1
STATUS INDICATOR F NUMBER	Control Response Request Response	OSM:30:[Data] OSM:30:[Data] QSM:30 OSM:30:[Data]	0 1	OFF ON	cam	OSM:30:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:30:1&res=1
STATUS INDICATOR ZOOM	Control Response Request Response	OSM:31:[Data] OSM:31:[Data] QSM:31 OSM:31:[Data]	0 1	OFF ON	cam	OSM:31:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:31:1&res=1
STATUS INDICATOR FILTER	Control Response Request Response	OSM:32:[Data] OSM:32:[Data] QSM:32 OSM:32:[Data]	0 1	OFF ON	cam	OSM:32:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:32:1&res=1
STATUS INDICATOR SHUTTER	Control Response Request Response	OSM:33:[Data] OSM:33:[Data] QSM:33 OSM:33:[Data]	0 1	OFF ON	cam	OSM:33:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:33:1&res=1
STATUS INDICATOR FORMAT	Control Response Request Response	OSM:34:[Data] OSM:34:[Data] QSM:34 OSM:34:[Data]	0 1	OFF ON	cam	OSM:34:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:34:1&res=1
STATUS INDICATOR COLOR TEMP	Control Response Request Response	OSM:35:[Data] OSM:35:[Data] QSM:35 OSM:35:[Data]	0 1	OFF ON	cam	OSM:35:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:35:1&res=1
STATUS INDICATOR SHOOTING MODE	Control Response Request Response	OSM:36:[Data] OSM:36:[Data] QSM:36 OSM:36:[Data]	0 1	OFF ON	cam	OSM:36:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:36:1&res=1
SUB DISPLAY MARKER MARKER LEVEL	Control Response Request Response	OSM:2C:[Data] OSM:2C:[Data] QSM:2C OSM:2C:[Data]	32h – 64h	50% – 100%	cam	OSM:2C:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:2C:64&res=1
SUB DISPLAY MARKER CENTER MARK	Control Response Request Response	OSM:2D:[Data] OSM:2D:[Data] QSM:2D OSM:2D:[Data]	0 1	OFF ON	cam	OSM:2D:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:2D:1&res=1
SUB DISPLAY MARKER CENTER MARK SELECT	Control Response Request Response	OSM:2E:[Data] OSM:2E:[Data] QSM:2E OSM:2E:[Data]	1 – 8	1 – 8	cam	OSM:2E:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:2E:1&res=1
SUB DISPLAY MARKER LINE WIDTH	Control Response Request Response	OSM:2F:[Data] OSM:2F:[Data] QSM:2F OSM:2F:[Data]	1 2 3	1 2 3	cam	OSM:2F:[Data]	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:2F:1&res=1

TRACKING DATA OUTPUT

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
TRACKING DATA OUTPUT IP	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 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]						

FILES

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
SCENE FILE LOAD	Control	OSL:8F:[Data]	0 1 – 8	OFF SCENE1 – SCENE8	cam	OSL:8F:[Data]	OSL:8F:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:8F:1&res=1
	Response	OSL:8F:[Data]						
	Request	QSL:8F						
	Response	OSL:8F:[Data]						
SCENE FILE LOAD	Control	XSF:[Data]	0 1 – 8 9	– SCENE1 – SCENE8 OFF	cam	XSF:[Data]	XSF:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=XSF:1&res=1
	Response	XSF:[Data]						
	Request	QSF	0 – 7 8 9	SCENE1 – SCENE8 OFF –				
	Response	OSF:[Data]						
SCENE FILE STORE	Control	OSL:90:[Data]	1 – 8	SCENE1 – SCENE8	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:90:1&res=1
	Response	OSL:90:[Data]						
	Request	–						
	Response	–						
SCENE FILE FILE NAME	Control	OSL:91:[Data1]:[Data2]	[Data1] 1 – 8 [Data2] xxxxxxxx (30 DATA in ASCII CODE)	[Data1] SCENE1 – SCENE8 [Data2] SCENE FILE NAME (FIXED 15 CHARACTORS)	cam	OSL:91:[Data1]:[Data2]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:91:5343454E4531000000000000000000000&res=1 alphanumeric space ! # % & ' ( ) * + , - . / : ; < = > ? [ ] _ ~
	Response	OSL:91:[Data1]:[Data2]						
	Request	QSL:91:[Data1]						
	Response	OSL:91:[Data1]:[Data2]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
USER FILE LOAD	Control	OSL:92:[Data]	1 – 3	USER1 – USER3	cam	OSL:92:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:92:1&res=1
	Response	OSL:92:[Data]						
	Request	–						
	Response	–						
USER FILE STORE	Control	OSL:93:[Data]	1 – 3	USER1 – USER3	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:93:1&res=1
	Response	OSL:93:[Data]						
	Request	–						
	Response	–						
USER FILE FILE NAME	Control	OSL:94:[Data1]:[Data2]	[Data1] 1 – 3 [Data2] xxxxxxxx (30 DATA in ASCII CODE)	[Data1] USER1 – USER3 [Data2] SCENE FILE NAME (FIXED 15 CHARACTORS)	cam	OSL:94:[Data1]:[Data2]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:94:5553455231000000000000000000000&res=1 alphanumeric space ! # % & ' ( ) * + , - . / : ; < = > ? [ ] _ ~
	Response	OSL:94:[Data1]:[Data2]						
	Request	QSL:94:[Data1]						
	Response	OSL:94:[Data1]:[Data2]						
REFERENCE FILE LOAD	Control	OSM:61:[Data]	1 – 3	REFERENCE1 – REFERENCE3	cam	OSM:61:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:61:1&res=1
	Response	OSM:61:[Data]						
	Request	–						
	Response	–						
REFERENCE FILE STORE	Control	OSM:62:[Data]	1 – 3	REFERENCE1 – REFERENCE3	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:62:1&res=1
	Response	OSM:62:[Data]						
	Request	–						
	Response	–						

When load SCENE,USER,REFERENCE, update notification of each command belonging to the SCENE wii be sent. In the 8.Menu-Command Correspondance Table, the target items SCENE, USER, and REFERENCE are listed.

MAINTENANCE

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
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
	Response	fAN[Data]						
	Request	#FAN						
	Response	fAN[Data]						
FAN STATUS1	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]						
SYSTEM VERSION	Control	–	VXX.XX-XXX-XX.XX	VXX.XX-XXX-XX.XX Ex) V01.00-000-00.00	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSL:99&res=1
	Response	–						
	Request	QSL:99						
	Response	OSL:99:[Data]						
SYSTEM VERSION	Control	–	–	VXX.XX Ex) V01.00	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSV&res=1
	Response	–						
	Request	QSV						
	Response	OSV:[Data1]						
ERROR STATUS	Control	–	0 1 2	Normal Fan Error Other Error ※bit0:Fan Error, bit1:Other Error	cam	OER:[Data]	OER:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QER&res=1
	Response	–						
	Request	QER						
	Response	OER:[Data]						
ERROR STATUS	Control	–	00000000h 00000001h 00000002h	No Error Fan Error High Temperature ※bit0:Fan Error, bit1:High Temperature,	cam	OSI:46:[Data]	OSI:46:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSI:46&res=1
	Response	–						
	Request	QSI:46						
	Response	OSI:46:[Data]						
WHITE SHADING CORRECT	Control	OSL:9B:[Data]	0 1	OFF ON	cam	OSL:9B:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:9B:1&res=1
	Response	OSL:9B:[Data]						
	Request	QSL:9B						
	Response	OSL:9B:[Data]						
WHITE SHADING W H SAW R	Control	OSL:9C:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:9C:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:9C:81&res=1
	Response	OSL:9C:[Data]						
	Request	QSL:9C						
	Response	OSL:9C:[Data]						
WHITE SHADING W H SAW G	Control	OSL:9D:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:9D:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:9D:81&res=1
	Response	OSL:9D:[Data]						
	Request	QSL:9D						
	Response	OSL:9D:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
WHITE SHADING W H SAW B	Control	OSL:9E:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:9E:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:9E:81&res=1
	Response	OSL:9E:[Data]						
	Request	QSL:9E						
	Response	OSL:9E:[Data]						
WHITE SHADING W H PARA R	Control	OSL:9F:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:9F:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:9F:81&res=1
	Response	OSL:9F:[Data]						
	Request	QSL:9F						
	Response	OSL:9F:[Data]						
WHITE SHADING W H PARA G	Control	OSL:A0:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A0:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A0:81&res=1
	Response	OSL:A0:[Data]						
	Request	QSL:A0						
	Response	OSL:A0:[Data]						
WHITE SHADING W H PARA B	Control	OSL:A1:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A1:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A1:81&res=1
	Response	OSL:A1:[Data]						
	Request	QSL:A1						
	Response	OSL:A1:[Data]						
WHITE SHADING W V SAW R	Control	OSL:A2:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A2:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A2:81&res=1
	Response	OSL:A2:[Data]						
	Request	QSL:A2						
	Response	OSL:A2:[Data]						
WHITE SHADING W V SAW G	Control	OSL:A3:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A3:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A3:81&res=1
	Response	OSL:A3:[Data]						
	Request	QSL:A3						
	Response	OSL:A3:[Data]						
WHITE SHADING W V SAW B	Control	OSL:A4:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A4:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A4:81&res=1
	Response	OSL:A4:[Data]						
	Request	QSL:A4						
	Response	OSL:A4:[Data]						
WHITE SHADING W V PARA R	Control	OSL:A5:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A5:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A5:81&res=1
	Response	OSL:A5:[Data]						
	Request	QSL:A5						
	Response	OSL:A5:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
WHITE SHADING W V PARA G	Control	OSL:A6:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A6:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A6:81&res=1
	Response	OSL:A6:[Data]						
	Request	QSL:A6						
	Response	OSL:A6:[Data]						
WHITE SHADING W V PARA B	Control	OSL:A7:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSL:A7:[Data]	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:A7:81&res=1
	Response	OSL:A7:[Data]						
	Request	QSL:A7						
	Response	OSL:A7:[Data]						
BLACK SHADING CORRECT	Control	OSM:63:[Data]	0 1	OFF ON	cam	OSM:63:[Data]	OSM:63:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:63:0&res=1
	Response	OSM:63:[Data]						
	Request	QSM:63						
	Response	OSM:63:[Data]						
BLACK SHADING W H SAW R	Control	OSM:64:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:64:[Data]	OSM:64:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:64:80&res=1
	Response	OSM:64:[Data]						
	Request	QSM:64						
	Response	OSM:64:[Data]						
BLACK SHADING W H SAW G	Control	OSM:65:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:65:[Data]	OSM:65:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:65:80&res=1
	Response	OSM:65:[Data]						
	Request	QSM:65						
	Response	OSM:65:[Data]						
BLACK SHADING W H SAW B	Control	OSM:66:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:66:[Data]	OSM:66:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:66:80&res=1
	Response	OSM:66:[Data]						
	Request	QSM:66						
	Response	OSM:66:[Data]						
BLACK SHADING W H PARA R	Control	OSM:67:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:67:[Data]	OSM:67:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:67:80&res=1
	Response	OSM:67:[Data]						
	Request	QSM:67						
	Response	OSM:67:[Data]						
BLACK SHADING W H PARA G	Control	OSM:68:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:68:[Data]	OSM:68:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:68:80&res=1
	Response	OSM:68:[Data]						
	Request	QSM:68						
	Response	OSM:68:[Data]						

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
BLACK SHADING W H PARA B	Control	OSM:69:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:69:[Data]	OSM:69:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:69:80&res=1
	Response	OSM:69:[Data]						
	Request	QSM:69						
	Response	OSM:69:[Data]						
BLACK SHADING W V SAW R	Control	OSM:6A:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:6A:[Data]	OSM:6A:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:6A:80&res=1
	Response	OSM:6A:[Data]						
	Request	QSM:6A						
	Response	OSM:6A:[Data]						
BLACK SHADING W V SAW G	Control	OSM:6B:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:6B:[Data]	OSM:6B:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:6B:80&res=1
	Response	OSM:6B:[Data]						
	Request	QSM:6B						
	Response	OSM:6B:[Data]						
BLACK SHADING W V SAW B	Control	OSM:6C:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:6C:[Data]	OSM:6C:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:6D:80&res=1
	Response	OSM:6C:[Data]						
	Request	QSM:6C						
	Response	OSM:6C:[Data]						
BLACK SHADING W V PARA R	Control	OSM:6D:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:6D:[Data]	OSM:6D:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:6C:80&res=1
	Response	OSM:6D:[Data]						
	Request	QSM:6D						
	Response	OSM:6D:[Data]						
BLACK SHADING W V PARA G	Control	OSM:6E:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:6E:[Data]	OSM:6E:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:6E:80&res=1
	Response	OSM:6E:[Data]						
	Request	QSM:6E						
	Response	OSM:6E:[Data]						
BLACK SHADING W V PARA B	Control	OSM:6F:[Data]	1Ch – 80h – E4h	-100 – 0 – +100	cam	OSM:6F:[Data]	OSM:6F:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSM:6F:80&res=1
	Response	OSM:6F:[Data]						
	Request	QSM:6F						
	Response	OSM:6F:[Data]						
LENS I/F	Control	OSL:F0:[Data]	0 1	ANALOG SERIAL	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:F0:1&res=1
	Response	OSL:F0:[Data]						
	Request	QSL:F0						
	Response	OSL:F0:[Data]						

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	制御	DPG:[Data]	1	CANCEL	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=DPG:1&res=1
	応答	DPG:[Data]						
	要求	–						
	応答	–						
MENU ENTER	制御	DIT:[Data]	1	ENTER	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=DIT:1&res=1
	応答	DIT:[Data]						
	要求	–						
	応答	–						
MENU UP (DIAL)	制御	DUP:[Data]	1	UP	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=DUP:1&res=1
	応答	DUP:[Data]						
	要求	–						
	応答	–						
MENU DOWN (DIAL)	制御	DDW:[Data]	1	DOWN	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=DDW:1&res=1
	応答	DDW:[Data]						
	要求	–						
	応答	–						
MENU UP	制御	CUP:[Data]	1	UP	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=CUP:1&res=1
	応答	CUP:[Data]						
	要求	–						
	応答	–						
MENU DOWN	制御	CDW:[Data]	1	DOWN	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=CDW:1&res=1
	応答	CDW:[Data]						
	要求	–						
	応答	–						
MENU RIGHT	制御	CRT:[Data]	1	RIGHT	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=CRT:1&res=1
	応答	CRT:[Data]						
	要求	–						
	応答	–						
MENU LEFT	制御	CLT:[Data]	1	LEFT	cam	–	–	http://192.168.0.10/cgi-bin/aw_cam?cmd=DLT:1&res=1
	応答	CLT:[Data]						
	要求	–						
	応答	–						

OTHERS

Command name	Category	Command	Data value	Setting	Comand type	Update notification	camdata.html	Usage example / Remarks
MODEL NUMBER	Control	–		AK-UBX100	cam	–	OID:AK-UBX100	http://192.168.0.10/cgi-bin/aw_cam?cmd=QID&res=1
	Response	–						
	Request	QID						
	Response	OID:[Data]						
CAMERA NUMBER	Control	OSL:AE:[Data]	01 – 99	1 – 99	cam	OSL:AE:[Data]	OSL:AE:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSL:AE:01&res=1
	Response	OSL:AE:[Data]						
	Request	QSL:AE						
	Response	OSL:AE:[Data]						
CAMERA TITLE	Control	OSJ:5C:[Data]	xxxxxxxx (40 DATA in ASCII CODE)	CAMERA TITLE (FIXED 20 CHARACTORS)	cam	OSJ:5C:[Data]	OSJ:5C:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:5C:41572D5545313630000000000000000000000000&res=1
	Response	OSJ:5C:[Data]						
	Request	QSJ:5C						
	Response	OSJ:5C:[Data]						