HD/4K Integrated Camera Interface Specifications

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Connected Solutions Company Panasonic Corporation

Change History

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Sep. 14, 2011	 HTTP1.0→HTTP1.1 Status of the support provided changed: AW-HE50 camera is not supported, and AW-HE50 camera is supported by Ver.2 or a later version. 				
Jan. 19, 2011	AW-HE120 camera supported.	1.02			
Oct. 9, 2012	AW-HE60 camera supported.	1.03			
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1. Introduction

This manual describes the external interface specifications which are applicable when the HD integrated camera is operated using Ethernet.

It consists of three main sections, namely, camera and pan-tilt head control, camera information update notifications and error return.

Applicable models

•AW-HE50 series*1, AW-HE120 series, AW-HE60 series, AW-HE130 series

AW-HE70 series*2, AW-UE70 series, AW-HE42 series

AK-UB300 series, AW-HR140 series, AW-UE150 series

- *1 The functions indicated as "Ver.2" in the text can be used when the activation process has been completed after the upgrade kit (AW-HEF5) is applied.
- *2 In the text, that indicates "SFU01", is a feature that can be used when AW-SFU01 is activated.

The AW-HE70, AW-UE70, and AW-HE75 are listed as representative models because following series are handled by same AW commands.

UE150 series

AW- UE150/AW-UE155/AW-UN145

HE40 series

AW-HE70/AW-HE40/AW-HE65 Ver1.32~

AW-HE48/AW-HE58

AW-HE35/AW-HE38

AW-HN38/AW-HN40/AW-HN65/AW-HN70

UE70 series

AW-UE70

Ver1.04~

AW-UN70

AW-UE65/AW-UE63

HE42 series

AW-HE75/AW-HE42/AW-HE68

2. Configuration outline

This manual has the following general configuration.

① Camera and pan-tilt head control

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

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

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

For further details, refer to chapter 3.

2 Camera information update notification

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

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

For further details, refer to chapter 4.

3 Camera information batch acquisition

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

For further details, refer to chapter 5.

4 Error return

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

For further details, refer to chapter 6.

3. Camera and pan-tilt head control

Given below are the external interfaces which are used when operating the camera using Ethernet. This chapter presents the following details.

1 Pan-tilt head control

This interface controls the pan-tilt head, and it uses the "pan-tilt head control commands".

2 Camera control

This interface is concerned with the camera's lens control and image adjustments, and it uses the "camera control commands".

3.1. Pan-tilt head control

The pan-tilt head control commands are in compliance with the HTTP1.1 communication specifications. Their format is given below.

For details on the HTTP messages, refer to <Appendix>.

[Command format]

```
[Send]
http://[IP Address]/cgi-bin/aw_ptz?cmd=[Command]&res=[Type]
where

*IP Address...... IP address of camera at connection destination

*Command...... Details given in "Command" column in the command tables below

*Type...... Fixed at "1"
```

[Receive]

200 OK "Command"

****Command**······· Response value of each command; set in the HTTP message body

Example: Pan/tilt (Stop)

[Send]

http://192.168.0.10/cgi-bin/aw_ptz?cmd=#PTS5050&res=1

[Receive]

200 OK "pTS5050"

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

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTS5050&res=1

Given below is the communication sequence which accords with the command format presented on the previous page.

For the communication sequence of the errors generated in response to commands which have been sent, refer to "6. Error return".

[Sequence]

"PC1" is the control terminal in the sequence below.

Example: Pan/tilt (Stop) control Camera IP Address = 192.168.0.10 Command = PTS5050

The control to stop the pan-tilt operation is exercised from PC1. [200 OK "pTS5050"] is returned as the response from the camera.

The control command and query command are available as the pan-tilt head control commands. Given below is the command sequence.

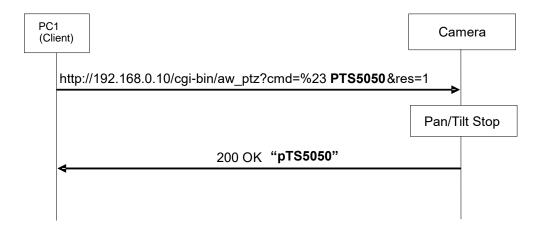


Fig.3.1-1 Command sequence of pan-tilt head control

It must be borne in mind that communication with the camera is subject to some restrictions. These restrictions are as follows.

[Restrictions]

1. When using the pan-tilt head control commands, send the commands with a gap of 130 ms between each command. Given below is the sequence.

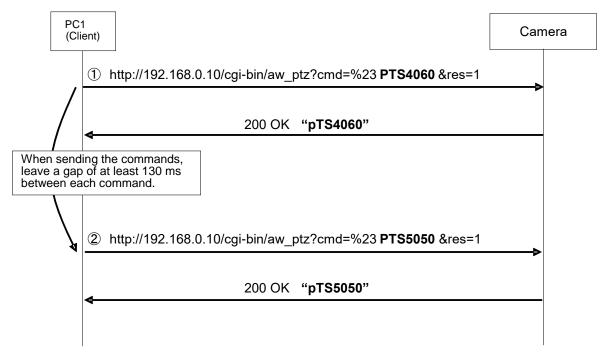


Fig.3.1-2 Restrictions

- 2. The number of sessions during which the camera can be accessed simultaneously is as follows.
 - a) Maximum number of HTTP sessions: 72
 - b) Number of terminals which can receive update notifications at the same time: 5 When the AW-RP50 is connected, it is counted as one unit.
- Keep-Alive cannot be set with HTTP connections.
 Connect and disconnect are performed each time a command is sent or received.
- 4. Some settings and conditions may restrict the effects of other settings (** including those with exclusive control conditions). See also the operating instructions which are provided with the products.
- 5. 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.)
 - X The applicable models incorporate an EEPROM for storing the settings, and each time a command that changes the settings is received, data is written in the EEPROM. The number of times data can be written in the EEPROM is limited so if data is sent frequently, the model will cease to operate normally when the maximum number of times for writing the data has been reached.

3.1.1. Power On/Standby

These commands enable the power On/Standby of the camera to be controlled and the current power On/Standby statuses to be acquired.

Table 3.1.1. Power On/Standby

Command name	Category	Command	Data value	Setting	Remarks	
Power On/	Control	#O[Data]	0	Standby	Not supported by the AK-UB300.	
Standby			f	Standby		
control command			1	Power On		
			n	Power On		
	Response	p[Data]				
Power On/	Request	#O	None			
Standby	Response	p[Data]	0	Standby		
query command			1	Power On		
			3	Transferring	※ Not supported by the AK-UB300.	
				from Standby to		
				ON		

Example of use) Power: On

[Control] PC → AW-HE50
http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23O1&res=1

[Response] AW-HE50 → PC
200 OK "p1"

3.1.2. Installation and smart picture flip commands

These commands control the method used for the installation of the camera (stand-alone or suspended) and smart picture flip, and they enable the current installation and smart picture flip settings to be acquired.

Table 3.1.2. Installation position

Command name	Category	Command	Data value	Setting	Remarks
Installation	Control	#INS[Data]	0	Desktop	Not supported by the AK-UB300.
position			1	Hanging	
control command	Response	iNS[Data]	1		
Installation	Request	#INS	None		※ Not supported by the AK-UB300.
position	Response	iNS[Data]	0	Desktop	
query command	·		1	Hanging	
Smart picture flip	Control	#SPF[Data]	0	Off	This command enables smart picture flip to be
Auto/Off	Response	sPF[Data]	1	Auto	set to Auto or Off
control command					*Only supported by the
					AW-HE120/AW-HE130/AW-HR140/AW-UE150.
Smart picture flip	Request	#SPF	None		XOnly supported by the
Auto/Off	Response	sPF[Data]	0	Off	AW-HE120/AW-HE130/AW-HR140/AW-UE150.
query command			1	Auto	
Smart picture flip	Control	#FDA[Data]	3Ch	60degree	This command enables the angle of smart
angle setting	Response	fDA[Data]		₹	picture flip to be set.
control command	-		78h	120degree	※Only supported by the
					AW-HE120/AW-HE130/AW-HR140/AW-UE150.
Smart picture flip	Request	#FDA	None		XOnly supported by the
angle setting	Response	fDA[Data]	3Ch	60degree	AW-HE120/AW-HE130/AW-HR140/AW-UE150.
query command			₹	₹ .	
			78h	120degree	

Example of use)

Installation position: Desktop
 [Control] PC → AW-HE50
 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23INS0&res=1

 [Response] AW-HE50 → PC
 200 OK "iNS0"

·Smart picture flip: Auto

[Control] PC → AW-HE120 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23SPF1&res=1 [Response] AW-HE120 → PC 200 OK "sPF1"

Smart picture flip angle: 60deg
 [Control] PC → AW-HE120
 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23FDA3C&res=1

 [Response] AW-HE120 → PC
 200 OK "fDA3C"

3.1.3. Pan/tilt

These commands enable the pan and tilt of the pan-tilt head of the camera to be controlled and the current position information and operating speed to be acquired.

Table 3.1.3. Pan/tilt

		Table 6.	I.S. Pan	tiit	T
Command name	Category	Command	Data value	Setting	Remarks
Pan/tilt position control command (specify an absolute value)	Control	#APC[Data1][Data2]	[Data1] 0000h	[Data1]Pan Pos ccwLimit center cwLimit [Data2]Tilt Pos upLimit center downLimit	The pan-tilt head moved to the home position by #APC[8000][8000]. Pan(-175) – (+175)deg 2D09 – D2F5 In the case of the AW-HE50/AW-HE60/AW-HE40 /AW-UE70/AW-HE42. Tilt(-30) – (+90)deg 5555 – 8E38 In the case of the AW-HE120/AW-HE130/AW-HR140/AW-UE150 Tilt(-30) – (+210)deg 1C71 – 8E38 The resolution is calculated to be 29.7 sec.
	Response	aPC[Data1][Data2]			Not supported by the AK-UB300.
Pan/tilt position	Request	#APC	None		Not supported by the
query command (specify an absolute value)	Response	aPC[Data1][Data2]	[Data1] 0000h	[Data1]Pan Pos ccwLimit	AK-UB300.
			\ FFFFh [Data2] 0000h \ \ 8000h \ \ FFFFh	cwLimit [Data2]Tilt Pos upLimit center downLimit	
Pan/tilt position/speed control command (specify an absolute value)	Control	#APS[Data1][Data2] [Data3][Data4]	[Data1] 0000h	[Data1]Pan Pos ccwLimit center cwLimit [Data2]Tilt Pos upLimit	XOnly supported by the AW-HE130/AW-HE40/ AW-UE70/AW-HE42/AW-HR 140/AW-UE150. The pan-tilt head is moved to the home position by #APC[8000][8000][]]. For range, refer to #APC.
	Response	aPS[<i>Data1</i>][<i>Data2</i>] [Data3][Data4]	8000h	center downLimit [Data3]Pst Spd 1 30 [Data4]Spd Tbl SLOW FAST	

Command name	Category	Command	Data value	Setting	Remarks
Pan/tilt position control command (specify an relative value)	Control	#RPC[Data1][Data2]	[Data1] 0000h	[Data1]Pan Pos ccwLimit center	 XOnly supported by the AW-HE130/AW-HE40/ AW-UE70/AW-HE42/AW-HR 140/AW-UE150. The pan-tilt head is moved
			FFFFh [Data2] 0000h	cwLimit [Data2]Tilt Pos upLimit	to the current position by #RPC[8000][8000]
	Response	rPC[Data1][Data2]	8000h ≀ FFFFh	center downLimit	For range, refer to #APC.
Pan/tilt position/speed control command	Control	#RPS[Data1][Data2] [Data3][Data4]	[Data1] 0000h	[Data1]Pan Pos ccwLimit	**Only supported by the AW-HE130/AW-HE40/ AW-UE70/AW-HE42/AW-HR
(specify an relative value)			8000h ≀	center	140/AW-UE150. • The pan-tilt head is moved
			FFFFh [Data2] 0000h	cwLimit [Data2]Tilt Pos upLimit	to the current position by #RPS[8000][8000][][]
	Response	rPS[<i>Data1</i>][<i>Data2</i>] [Data3][Data4]	≀ 8000h ≀	center	For range, refer to #APC.
		[Data3][Data+]	FFFFh [Data3] 00h }	downLimit [Data3]Pst Spd 1	
			1Dh [Data4] 0	30 [Data4]Spd Tbl SLOW MID	
			2	FAST	
Speed (pan/tilt)	Control	#P[Data]	01	Left Max. Speed	Pan speed to be controlled
control command			49 50 51 \	Left Min. Speed Pan Stop Right Min. Speed	
	Response	pS[Data]	99	Right Max. Speed	Not supported by the AK-UB300.
	Control	#T[Data]	01 }	Down Max. Speed	Tilt speed to be controlled
			49 50 51 }	Down Min. Speed Tilt Stop UP Min. Speed	
			99	UP Max. Speed	
	Response	tS[Data]	-		※ Not supported by the AK-UB300.

Command name	Category	Command	Data value	Setting	Remarks
Speed	Control	#PTS[Data1][Data2]	[Data1]	[Data1]	[Data1]
(pan/tilt)			01	Left Max. Speed	Pan speed control
control command			₹	}	[Data2]
			49	Left Min. Speed	Tilt speed control
			50	Pan Stop	
			51	Right Min. Speed	
			₹	₹	
			99	Right Max. Speed	
			[Data2]	[Data2]	
			01	Down Max. Speed	
			}		
			49	Down Min. Speed	
			50	Tilt Stop	
			51	UP Min. Speed	
			}		
			99	UP Max. Speed	
	Response	pTS[Data1][Data2]			Not supported by the
					AK-UB300.

Example of use)

•Camera control: PAN= 8000, TILT= 8000 (Home position)

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw ptz?cmd=%23APC80008000&res=1

[Response] AW-HE50 → PC 200 OK "aPC80008000"

•Pan speed control: max. speed to the right

[Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23P99&res=1

[Response] AW-HE50 → PC 200 OK "pS99"

•Tilt speed control: max. speed downward

[Control] PC \rightarrow AW-HE50 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23T01&res=1 [Response] AW-HE50 \rightarrow PC 200 OK "tS01"

•Pan/tilt speed control: max. speed to the left, max. speed upward

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTS0199&res=1

[Response] AW-HE50 → PC 200 OK "pTS0199"

3.1.4. Movement range limit On/Off

These commands enable the movement range settings (limiter settings) for the pan and tilt of the camera and the information of the current movement range limits to be acquired. Up, down, left and right limits can be set.

Table 3.1.4. Movement range limit On/Off

Command name	Category	Command	Data value	Setting	Remarks
Movement range limit On/Off control command	Control	#LC[Data1] [Data2] IC[Data1][Data2]	[Data1] 1 2 3 4 [Data2] 0 1	[Data1] Up Down Left Right [Data2] Release Set	The directions in which the movement range is to be limited are controlled, and limit set or release is controlled. [Data1] Control in the movement range limit direction [Data2] Limit set/release ※ Not supported by the AK-UB300.
	Control	#L[Data]	1 2 3 4	Up Down Left Right	The direction in which the movement range is to be limited is controlled. • Operation toggles between set and release. ※ Not supported by the AK-UB300.
	Response	l [Data]	0 1	Release Set	Limit set/release X Not supported by the AK-UB300.
Movement range limit On/Off query command	Request	#LC[Data]	1 2 3 4	Up Down Left Right	Not supported by the AK-UB300.
	Response	IC[Data1][Data2]	[Data1] 1 2 3 4 [Data2] 0 1	[Data1] Up Down Left Right [Data2] Release Set	[Data1] Control in the movement range limit direction [Data2] Limit set/release ※ Not supported by the AK-UB300.

Example of use)

Setting the movement range limit in the upward direction
 [Control] PC → AW-HE50
 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LC11&res=1
 [Response] AW-HE50 → PC
 200 OK "IC11"

Releasing the movement range limit in the upward direction [Control] PC → AW-HE50
 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LC10&res=1
 [Response] AW-HE50 → PC
 200 OK "IC10"

Setting/releasing the movement range limit in the upward direction [Control] PC → AW-HE50
 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23L1&res=1
 [Response] AW-HE50 → PC
 200 OK "I1"

3.1.5. Lens operations

3.1.5.1. Zoom

These commands control the zooming (between Wide and Tele) of the camera lens and enable the current zoom position and zooming speed to be acquired.

Commands which control the zooming are also described in section "3.2.1.3.Zoom" of "3.2.Camera control".

Table 3.1.5.1. Zoom

Command name	Category	Command	Data value	Setting	Remarks		
Zoom (position control) control command	Control	#AXZ[Data]	555h FFFh	Wide	Not supported by the AK-UB300.		
	Response	axz[Data]					
Zoom (position	Request	#AXZ	None				
control) query command	Response	axz[Data]	555h ≀ FFFh	Wide			
Zoom position	Request	#GZ	None				
query command	Response	gz[Data]	555h } FFFh ""	Wide	The "" setting is supported only by the AW-HE50/AW-HE60/ AW-HE40/ AW-UE70/AW-HE42/AW-UE150. ※ Not supported by the AK-UB300.		
Zoom (speed control) control command	Control	#Z[Data]	01 49 50 51 2 99	Wide Max. Speed Wide Min. Speed Zoom Stop Tele Min. Speed Tele Max. Speed	Zooming speed to be controlled		
	Response	zS[Data]			※ Not supported by the AK-UB300.		

Example of use)

·Zoom: Tele

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXZFFF&res=1

[Response] AW-HE50 → PC

200 OK "axzFFF"

Speed control: zooming max. speed in Wide direction

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23Z01&res=1

[Response] AW-HE50 → PC

200 OK "zS01"

3.1.5.2. Focus

These commands control the focusing (between Near and Far) of the camera and enable the current focus position and focus adjustment speed to be acquired.

They also enable On/Off for the auto focus to be controlled and the current auto focus On/Off status to be acquired.

Commands which control the focusing are also described in section "3.2.1.1. Focus" of "3.2. Camera control".

Table 3.1.5.2. Focus

1450 0.1.0.2. 1 0043						
Command name	Category	Command	Data value	Setting	Remarks	
Focus (position	Control	#AXF[Data]	555h	Near	Invalid when auto focus is On	
control)			}	}	(ER3 is returned).	
control command	Response	axf[Data]	FFFh	Far	Not supported by the AK-UB300.	
Focus (position	Request	#AXF	None			
control)	Response	axf[Data]	555h	Near		
query command			₹	} }		
			FFFh	Far		
Focus position	Request	#GF	None		X Not supported by the AK-UB300.	
query command	Response	gf[<i>Data</i>]	555h	Near		
				_₹		
			FFFh ""	Far	The "" setting is supported only	
			""	Standby	by the AW-HE50/AW-HE60/ AW-HE40/	
					AW-HE40/ AW-UE70/AW-HE42/AW-UE150.	
Focus (speed	Control	#F[Data]	01	Near Max. Speed	Focusing speed to be controlled	
control)	Control	#F[Data]))	Invalid when auto focus is On	
control command			49	Near Min. Speed	(ER3 is returned).	
Control communa			50	Focus Stop	(Litto is retained).	
			51	Far Min. Speed		
			₹	≀		
			99	Far Max. Speed		
	Response	fS[Data]	-		※ Not supported by the AK-UB300.	
Auto focus On/Off	Control	#D1[Data]	0	Off(Manual)	In case of AW-HE130, auto focus	
control command			1	On(Auto)	cannot be set to On when	
				, ,	FrameMix is set to 18 [dB] or	
]		higher.	
	Response	d1[<i>Data</i>]			※ Not supported by the AK-UB300.	
Auto focus On/Off	Request	#D1	None		X Not supported by the AK-UB300.	
query command	Response	d1[<i>Data</i>]	0	Off(Manual)		
			1	On(Auto)		

Example of use)

·Focus: Near

[Control] PC \rightarrow AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXF555&res=1

[Response] AW-HE50 → PC

200 OK "axf555"

Speed control: max. focusing speed in Far direction

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23F99&res=1

[Response] AW-HE50 → PC

200 OK "fS99"

•Auto focus: auto focus start [Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw ptz?cmd=%23D11&res=1

[Response] AW-HE50 → PC 200 OK "d11"

3.1.5.3. Iris

These commands control the iris (between Close and Open) of the camera and enable the current iris position to be acquired.

In addition, they enable Auto/Manual control of the iris and the current iris Auto/Manual statuses to be acquired.

Commands which control the iris are also described in section "3.2.1.2. Iris" of "3.2. Camera control".

Table 3.1.5.3. Iris

			JIC 0. 1.0.0.		
Command name	Category	Command	Data value	Setting	Remarks
Iris position	Control	#I [Data]	01	Iris Close	Not supported by the AK-UB300.
control command	Response	iC[Data]		₹	
			99	Iris Open	
	Control	#AXI [Data]	555h	Iris Close	Not supported by the AK-UB300.
	Response	axi [Data]	₹	} }	
			FFFh	Iris Open	
Iris position	Request	#AXI	None		
query command	Response	axi [Data]	555h	Iris Close	
			₹	₹	
			FFFh	Iris Open	
Iris position	Request	#GI	None		
Auto/Manual query command	Response	gi [<i>Data1</i>] [<i>Data2</i>]	[Data1] 555h	Iris Close { Iris Open Standby Manual Iris Auto Iris	 The "" setting is supported only by the AW-HE50/AW-HE60/AW-HE40/AW-UE70/AW-HE42/AW-UE150. In case of AW-HE130/AW-HR140, auto focus cannot be set to On when FrameMix is set to 18 [dB] or higher. Not supported by the AK-UB300.
Auto Iris On/Off control command	Control	#D3[Data]	0	Manual Iris Auto Iris	※ Not supported by the AK-UB300.
	Response	d3[Data]			
Auto Iris On/Off	Request	#D3	None		※ Not supported by the AK-UB300.
query command	Response	d3[<i>Data</i>]	0	Manual Iris	
			1	Auto Iris	

Example of use)

Iris: Open

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23I99&res=1

[Response] AW-HE50 → PC

200 OK "iC99"

·Iris: Close

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXI555&res=1

[Response] AW-HE50 → PC

200 OK "axi555"

· Auto iris: On

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23D31&res=1

[Response] AW-HE50 → PC

200 OK "d31"

3.1.6. Lens information notification

These commands enable On or Off to be set for the lens information notification of the camera and the current lens information notification On/Off status and lens information to be acquired.

Table 3.1.6. Lens information notification On/Off

Command name	Category	Command	Data value	Setting	Remarks
Lens information notification On/Off	Control	#LPC[Data]	0	Off On	Off: Information is not posted. On: Information is posted.
control command					% Not supported by the
					AK-UB300.
	Response	IPC[Data]			
Lens information notification On/Off	Request	#LPC	None		Not supported by the AK-UB300.
query command	Response	IPC[Data]	0	Off	Off: Information is not posted.
			1	On	On: Information is posted.
Lens information query command	Request	#LPI	None		Not supported by the AK-UB300.
	Response	IPI [Data1] [Data2][Data3]	[Data1] 555h	[Data1] Zoom Position Wide Tele	[Data1] Same return as #GZ [Data2] Same return as #GF [Data3] Same return as #GI
			[Data2] 555h	[Data2] Focus Position Near { Far [Data3] Iris Position Close } Open	The command is sent periodically (every 300 ms) to all the channels to which the command can be sent.

Example of use)

·Lens information notification: On

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LPC1&res=1

[Response] AW-HE50 → PC

200 OK "IPC1"

Lens information acquisition

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LPI&res=1

[Response] AW-HE50 → PC

200 OK "IPI [Data1][Data2][Data3]"

3.1.7. Preset

These commands register and play back the presets of the camera and enable the preset number last played back to be acquired.

They also enable the preset speed to be registered and the current preset speed to be acquired.

Table 3.1.7. Preset

			able 3.1.7. P		
Command name	Category	Command	Data value	Setting	Remarks
Preset (register)	Control	#M[Data]	00	Preset 001	※ Not supported by the
control command			}	}	AK-UB300.
			99	Preset 100	
		15.4.1	_		
Drooot (playbook)	Response Control	s[Data] #R[Data]	00	Preset 001	× Not supported by the
Preset (playback) control command	Control	#K[Data]	\ \	}	Not supported by the AK-UB300.
control command			99	Preset 100	711 02000.
	Response	s[Data]			
Preset (delete)	Control	#C[Data]	00	Preset 001	※ Not supported by the
control command	Response	s[Data]	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	} Document 400	AK-UB300
Preset number	Doguest	#S	99 Nana	Preset 100	V Not supported by the
query command	Request	#3	None		Not supported by the AK-UB300.
query communa					Request for preset number
					last played back
	Response	s[Data]	00	Preset 001	
				∤ Preset 100	
Preset Speed	Request	#UPVS[Data]			
control command	rtoquoot	"Or Vo[Bata]		-HE130/AW-HR140	o,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			000	30 : MaxSpeed	
	Response	uPVS[Data]	250	1 : Slow	
			999	} 30 : Fast	
				f the AW-UE150	
			III the case o	Preset Speed Unit :	Γ
				Speed 30 : MaxSpeed	
			000	1 : Slow	
			250	}	
			} 999	30 : Fast Preset Speed Unit:	
				Time	
				1sec	
			001	₹	
			063	99sec	
Preset Speed	Request	#UPVS	None		※ Not supported by the
query command	,				AK-UB300.
	Response	uPVS[Data]		of the AW-HE40/AW-HE5 -HE130/AW-HR140	0/AW-HE60/AW-UE70/AW-HE42/
			250	1 : Slow	
			\ \ \ \	₹	
			999	30 : Fast	
			in the case of	f the AW-UE150. Preset Speed Unit:	
				Speed Onit:	
			250	1 : Slow	
			₹	}	

Command name	Category	Command	Data value	Setting	Remarks
			999	30 : Fast	
				Preset Speed Unit:	
			001	Time	
			001	1sec	
			063	₹	
Eroozo during	Control	#DDE[Dete]		99sec OFF	※Only supported by the
Freeze during preset control	Control	#PRF[Data]	0	ON	AW-HE130/AW-HE40/AW-U
command	Response	pRF[Data]	0	OFF	E70/AW-HE42/AW-HR140/A
		[]	1	ON	W-UE150.
Freeze during	Request	#PRF	None		※Only supported by the
preset query	Response	pRF[Data]	0	OFF	AW-HE130/AW-HE40/AW-U
command			1	ON	E70/AW-HE42/AW-HR140/A W-UE150.
Preset Speed Table	Control	#PST[Data]	In the case o	L f the AW-HE40/AW-UE70	
control command	Control	"I O'[Dala]	0	SLOW	07.00 112.12
			1	MID	
			2	HIGH	
				f the AW-HE130/AW-HR	140/AW-UE150
	Response	pST[<i>Data</i>]	0	SLOW	
Dunant Cunand Table	Danisat	#PST	2 None	HIGH	
Preset Speed Table query command	Request Response	pST[<i>Data</i>]		<u> </u> f the AW-HE40/AW-UE70	
query communa	Response	por[Data]	0	SLOW	U/AVV-ПЕ42
			1	MID	
			2	HIGH	
			In the case o	f the AW-HE130/AW-HR	140/AW-UE150
			0	SLOW	
			2	HIGH	
Preset Entry	Request	#PE[Data1]	[Data1]	[Data1]	
query command			00h	Preset 001~040	
			01h	Preset 041~080 Preset 081~100	
	Response	pE[Data1][D	02h		
	Response	pE[Data /][D ata2]	[Data1] 00h	[Data1] Preset 001~040	%IVIAX TOOFTESEL
		atazj	01h	Preset 001~040	
			02h	Preset 081~100	
			OZII	110001001 100	
			[Data2]	[Data2]	
			00000000		
			00h		
			-		
			FFFFFF		
			FFFh		
			(bit0)	PRESET	
				No.(Data1*40 + 1)	
			0	No Entry	
			1	Entry	
			(bit1)	PRESET	
				No.(Data1*40 + 2)	
			0	No Entry	
			1	Entry	
			(39bit)	PRESET	
			(00011)	No.(Data1*40 + 40)	
			0	No Entry	
	1		1	Entry	

*After the presets have all been played back, the completion notification is sent in the "q**" format. For details, refer to "4.4.4. Preset playback".

Example of use)

Preset: registering a setting in Preset 08

[Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23M07&res=1 [Response] AW-HE50 → PC 200 OK "s07"

Preset: playing back Preset 12

[Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23R11&res=1 [Response] AW-HE50 → PC 200 OK "s11"

Preset: Preset Speed Set to 1(Slow)

[Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23UPVS250&res=1 [Response] AW-HE50 → PC 200 OK "uPVS250"

3.1.8. Tally

These commands exercise enable/disable control over the tally input of the camera and enable the current tally input enable/disable statuses to be acquired.

In addition, they exercise tally On/Off control over the camera.

Table 3.1.8. Tally

Command name	Category	Command	Data value	Setting	Remarks
Tally input enable/disable control command	Control	#TAE[Data]	0	Disable Enable	Not supported by the AK-UB300/AW-HR140.
control command	Response	tAE[Data]			※Effective for R-Tally, G-Tally
Tally input enable/disable	Request	#TAE	None		Not supported by the AK-UB300/AW-HR140.
query command	Response	tAE[Data]	0 1	Disable Enable	
R-Tally On/Off control command	Control	#DA[Data]	0	R-Tally Off R-Tally On	% Not supported by the AK-UB300.
	Response	dA[<i>Data</i>]			
R-Tally On/Off	Request	#DA	None		※ Not supported by the AK-UB300.
query command	Response	dA[<i>Data</i>]	0	R-Tally Off R-Tally On	
Tally Information	Request	#TAA	None		XOnly supported by the AW-UE150
query command	Response	tAA[Data1] [Data2] [Data3] [Data4] [Data5] [Data6] [Data7] [Data8] [Data9]	0(Off) 1(On)	[Data1] R-Tally On/Off [Data2] Wired R-Tally In On/Off [Data3] Command R-Tally In On/Off [Data4] G-Tally On/Off [Data5] Reserved [Data6] Command G-Tally In On/Off [Data7] Reserved [Data8] Reserved [Data9] Reserved	

Example of use)

•Tally input (enable/disable): Enable

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23TAE1&res=1

[Response] AW-HE50 → PC 200 OK "tAE1"

 R-Tally: On
 [Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23DA1&res=1
 [Response] AW-HE50 → PC 200 OK "dA1"

3.1.9. Wireless remote controller setting

These commands make it possible for enable or disable to be set for the control which is exercised over the wireless remote controller of the camera and for the current enable/disable statuses to be acquired.

Table 3.1.9. Wireless remote controller enable/disable setting

Command name	Category	Command	Data value	Setting	Remarks
Wireless remote controller control enable/disable	Control	#WLC[Data]	0	Disable Enable	Not supported by the AK-UB300/AW-HR140.
control command	Response	wLC[Data]			
Wireless remote controller control enable/disable	Request	#WLC	None		Not supported by the AK-UB300/AW-HR140.
query command	Response	wLC[Data]	0 1	Disable Enable	
Wireless remote controller	Control	#RID[Data]	0	CAM1	※Only supported by the
ID control command	Response	rID[Data]	1	CAM2	AW-HE40/
			2	CAM3	AW-UE70/AW-HE42.
			3	CAM4	, <u>G</u> , G ,
Wireless remote controller	Request	#RID	None		※Only supported by the
ID query command	Response	rID[Data]	0	CAM1	AW-HE40/
			1	CAM2	AW-UE70/AW-HE42.
			2	CAM3	
			3	CAM4	

Example of use) Wireless remote controller: Disable

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23WLC0&res=1

[Response] AW-HE50 → PC 200 OK "wLC0"

3.1.10. Zoom position-linked pan/tilt speed adjustment On/Off

These commands exercise On/Off control over the zoom position-linked pan/tilt speed adjustments of the camera and enable the current On/Off statuses to be acquired.

When the lens is zoomed toward Tele, the pan/tilt movement is set to the low speed.

Table 3.1.10. Zoom position-linked pan/tilt speed adjustment On/Off

		l e			
Command name	Category	Command	Data value	Setting	Remarks
Zoom position-linked pan/tilt speed adjustment On/Off	Control	#SWZ[Data]	0	Off On	※ Not supported by the AK-UB300.
control command	Response	sWZ[Data]			
Zoom position-linked	Request	#SWZ	None		※ Not supported by the AK-UB300.
pan/tilt speed	Response	sWZ[Data]	0	Off	
adjustment On/Off query command			1	On	

Example of use)

·Zoom position-linked pan/tilt speed adjustment: On

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23SWZ1&res=1

[Response] AW-HE50 → PC 200 OK "sWZ1"

3.1.11. Software version information

This command enables the software version information to be acquired.

Table 3.1.11. Software version information

Command name	Category	Command	Data value	Setting	Remarks
Software version	Request	#QSV[Data1]	In the ca	se of the AW-HE50/AV	V-HE60
information query command			[Data1]	[Data1] Pan Tilt CPU	*The Camera EEPROM setting is supported only by
			1 2	Camera CPU Camera PLD	the AW-HE60.
			3	Network CPU	
			4	OUT PLD	
			5	Reserve	
			6 7	Reserve Reserve	
			8	Camera EEPROM	
			In the ca	se of the AW-HE120	
			[Data1]	[Data1]	
l			0	Servo CPU	
			1	CameraMain CPU	
			2	Frontend FPGA Network CPU	
			4	Backend FPGA	
			5	Interface CPU	
			6	Lens FPGA	
			7	Interface EEPROM	
			8	Camera EEPROM	
			In the ca	se of the AW-HE130	
			[Data1] 0	[Data1] Servo CPU	
			1	CameraMain CPU	
			2	COM FPGA	
			3	Network CPU	
			4	AVIO FPGA	
			5 6	Interface CPU Lens FPGA	
			7	Interface EEPROM	
			8	Reserved	
			In the ca	se of the AW-HE40/AV	V-UE70/AW-HE42
			[Data1]	[Data1]	
l			0	Servo CPU	
			1	Cam CPU	
			2	FPGA	
			3	BE CPU	
			4	reserve	
			5	Interface CPU	
			6	reserve	
			7	Interface EEPROM	
			8	Reserve	
				se of the AW-UE150	
1			[Data1]	[Data1]	
1			0	Servo CPU	
			1	Camera CPU	

Command name	Category	Command	Data value	Setting	Remarks
			2	COM FPGA	
			3	Main/NetworkCPU	
			4	AVIO FPGA	
			5	Interface CPU	
			6	Lens CPU	
			7	Interface EEPROM	
			8	reserve	
			9	BE EEPROM	
	Response	qSV[Data1]V[Data2].	[Data2]	[Data2]	※ Not supported by the
			00-99	MAJOR VERSION	AK-UB300.
		[Data3][Data4]	[Data3]	[Data3]	
		[Data5][Data6]	00-99	MINOR VERSION	
			[Data4]	[Data4]	
			E	(Debug Build)	
			L [Deta5]	(Release Build)	
			[Data5] 00-99	[Data5] (REVISION)	
			[Data6]	[Data6]	
			0	NTSC	
			1	PAL	
			2	Other	

Example of use) Software version information acquisition: Camera CPU

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23QSV1&res=1

[Response] AW-HE50 → PC

200 OK "qSV[Data1]V[Data2].[Data3][Data4][Data5][Data6]"

3.1.12. Error information

This command enables the error information mainly of the pan-tilt head to be acquired.

Table 3.1.12. Error information

Command name	Category	Command	Data value	Setting	Remarks
Error information	Request	#RER	None		
query command	Response	rER[Data]	In the case	e of the AW-H	E50/AW-HE60
			00h	Disable	Normal
			01h	Enable	-
			02h		[<u></u>
			03h		Motor Driver Error
			04h 05h		Pan Sensor Error Tilt Sensor Error
			06h		Controller RX Over run Error
			07h		Controller RX Framing Error
			08h		Network RX Over run Error
			09h		Network RX Framing Error
			0Ah		-
			0Bh		-
			-		-
			17h -		Controller RX Command Buffer Overflow -
			19h -		Network RX Command Buffer Overflow -
			21h		System Error
			22h		Spec Limit Over
			23h		FPGA Config Error
			24h		Network communication Error
			25h -		Lens Initialize Error -
			30h		Lvds_Adjustment_NG
			31h		Bar_Signal_Check_NG
			32h		H_Sync_Check_NG
			33h		HDMI_Check_NG
					※ Not supported by the AK-UB300.
					E120/AW-HE130
			00h	Disable	Normal
			01h	Enable	-
			02h 03h		- Motor Driver Error
			03n 04h		Motor Driver Error Pan Sensor Error
			0 4 11		Tilt Sensor Error
			06h		Controller RX Over run Error
			07h		Controller RX Framing Error
			08h		Network RX Over run Error
			09h		Network RX Framing Error
			0Ah		-
			0Bh -		- -
			17h -		Controller RX Command Buffer Overflow -
			19h -		Network RX Command Buffer Overflow
			21h 22h		System Error Spec Limit Over
			- 24h		- Network communication Error

Command name	Category	Command	Data value	Setting	Remarks
			25h		CAMERA communication Error
			26h		CAMERA RX Over run Error
			27h		CAMERA RX Framing Error
			28h	e of the AW-H	CAMERA RX Command Buffer Overflow
			00h	Disable	Normal
			00h	Enable	-
			02h		-
			03h		Motor Driver Error
			04h		Pan Sensor Error
			05h		Tilt Sensor Error
			06h		Controller RX Over run Error
			07h		Controller RX Framing Error
			08h		Network RX Over run Error
			09h		Network RX Framing Error
			0Ah		-
			0Bh		-
			17h		- Controller RX Command Buffer Overflow
			-		-
			19h -		Network RX Command Buffer Overflow -
			21h		System Error
			22h		Spec Limit Over
			24h		Network communication Error
			25h		CAMERA communication Error
			26h		CAMERA RX Over run Error
			27h		CAMERA RX Framing Error
			28h		CAMERA RX Command Buffer Overflow
			-		-
			31h		Fan1 error
			32h		Fan2 error
			33h		High Temp
			-		-
			36h		Low Temp
			_		' -
			39h		Wiper Error
			40h		Temp Sensor Error
			-		-
			50h		MR Level Error
			51h		GYRO Initial Error
			52h		MR Offset Error
			53h		Origin Offset Error
					E40/AW-UE70/AW-HE42
			00h	Disable	Normal(No Error)
			03h	Enable	Motor Driver Error
			04h		Pan Sensor Error
			05h 06h		Tilt Sensor Error IF/FPGA UART Over run Error
			06h 07h		IF/FPGA UART Over run Error IF/FPGA UART Framing Error
			0711 08h		IF/NET UART Over run Error

Command name	Category	Command	Data value	Setting	Remarks
			09h		IF/NET UART Framing Error
			17h		IF/FPGA UART Buffer Overflow
			19h		IF/NET UART Buffer Overflow
			21h		System Error(IF/SERVO Error)
			22h		PT Limit Over
			24h		NET Life-monitoring Error
			25h		BE Life-monitoring Error
			26h		IF/BE UART Buffer Overflow
			27h		IF/BE UART Framing Error
			28h		IF/BE UART Buffer Overflow
			29h		CAM Life-monitoring Error
					Not supported by the AK-UB300.
				e of the AW-U	
			00h	Disable	Normal
			03h	Enable	Motor Driver Error
			04h		Pan Sensor Error
			05h		Tilt Sensor Error
			06h		Controller RX Over run Error
			07h		Controller RX Framing Error
			08h		Network RX Over run Error
			09h		Network RX Framing Error
			17h		Controller RX Command Buffer Overflow
			19h		Network RX Command Buffer Overflow
			21h		System Error
			22h		Spec Limit Over
			23h		FPGA Config Error
			24h		NET Life-monitoring Error
			25h		BE Life-monitoring Error
			26h		IF/BE UART Buffer Overflow
			27h		IF/BE UART Framing Error
			28h		IF/BE UART Buffer Overflow
			29h		CAM Life-monitoring Error
			31h		Fan1 error
			32h		Fan2 error
			33h		High Temp
			36h		Low Temp
			40h		Temp Sensor Error
			41h		Lens Initialize Error
			42h		PT. Initialize Error
			50h		MR Level Error
			52h		MR Offset Error
			53h		Origin Offset Error
			54h		Angle MR Sensor Error
			55h		PT. Gear Error
			56h		Motor Disconnect Error

Example of use) Error information acquisition

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RER&res=1

[Response] AW-HE50 → PC

200 OK "rER[Data]"

3.1.13. Status Lamp

These commands exercise enable/disable control over the status lamp of the camera and enable the current tally input enable/disable statuses to be acquired.

Table 3.1.13. Status Lamp

Command name	Category	Command	Data value	Setting	Remarks
Status Lamp enable/disable control command	Control	#LMP[Data]	0	Disable Enable	**Only supported by the AW-HE130(V2.00 or a later) /AW-UE150
	Response	IMP[Data]			
Status Lamp enable/disable query command	Request	#LMP	None		※Only supported by the AW-HE130(V2.00 or a later) /AW-UE150
	Response	IMP[Data]	0 1	Disable Enable	

Example of use)

·Status Lamp (enable/disable): Enable

[Control] PC \rightarrow AW-HE130

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LMP1&res=1

[Response] AW-HE130 → PC 200 OK "IMP1"

3.1.14. Housing

These commands enable the housing settings of the camera to be established and the current settings to be acquired..

Table 3.1.14. Housing

Command name	Command	Data value Setting		Remarks		
	Category					
Defroster Control	Control	#D7[Data]	0	Auto	※Only supported by the AW-HR140	
control command	Response	d7[<i>Data</i>]	1	On		
Defroster Control	Request	#D7	None		※Only supported by the AW-HR140	
query command	Response	d7[<i>Data</i>]	0	Auto		
<i>M</i> . 0		#B01B ()	1	On	N/O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Wiper Control	Control	#D8[Data]	0	Off	※Only supported by the AW-HR140	
control command	Response	d8[Data]	1	Fast)// O	
Wiper Control	Request	#D8	None	Off		
query command	Response	d8[<i>Data</i>]	0	Fast		
Heater Control	Control	#D0[Dete]	0		XOnly supported by the AW-HR140	
control command	Response	#D9[Data]	1	Auto On	%Only supported by the AVV-RK 140	
Heater Control	•	d9[<i>Data</i>] #D9	-	OII	WOrks currented by the AW LID110	
	Request		None	A.uta		
query command	Response	d9[<i>Data</i>]	0	Auto		
FAN	Control	#EANI(Data)	1 On In the case of the AW-HR140			
control command	Control	#FAN[Data]	0	Auto	\ 140 	
Control Command	Response	fAN[Data]	1	On		
	Response		In the case of	_	L E150	
			0	Auto	L 130	
			1			
			2	High Mid		
			3	Low		
FAN	Request	#FAN	None	LOW		
query command	Response	fAN[Data]	In the case of the AW-HR140			
query command	rtooponoo	ויוויון	0	Auto	10	
			1	On		
			In the case of the AW-UE150			
			0	Auto		
			1	High		
			2	Mid		
			3	Low		
FAN2	Control	#FA2[Data]	0	Auto	※Only supported by the AW-UE150	
control command	Response	fA2[Data]	1	High		
			2	Mid		
			3	Low		
FAN2	Request	#FA2	None		※Only supported by the AW-UE150	
query command	Response	fA2[Data]	0	Auto		
			1	High		
			2	Mid		
			3	Low		
Wiper	Control	#WIP[Data]	0	Off	※Only supported by the AW-HR140	
control command	Response	wIP[Data]	1	Fast		
	<u> </u>		2	Slow		
Wiper	Request	#WIP	None		**Only supported by the AW-HR140	
query command	Response	wIP[Data]	0	Off	•	
-	·		1	Fast		
			2	Slow		
Washer	Control	#WAS[Data]	0	Off	※Only supported by the AW-HR140	
control command	Response	wAS[Data]	1	On		

Command name	Category	Command	Data value	Setting	Remarks	
Washer	Request	#WAS	None		※Only supported by the AW-HR140	
query command	Response	wAS[Data]	0	Off		
			1	On		
Fan Status1	Request	#FS1	None			
query command	Response	fS1[Data]	In the case of the AW-HR140			
			0	Off		
			1	On		
			In the case of the AW-UE150			
			0	Off		
			1	On		
			2	Fan		
				Error		
Fan Status2	Request	#FS2	None			
query command	Response	fS2[Data]	In the case of the AW-HR140			
			0	Off		
			1	On		
			In the case of the AW-UE150			
			0	Off		
			1	On		
			2	Fan		
				Error		
Heater Status	Request	#HS	None		※Only supported by the AW-HR140	
query command	Response	hS[<i>Data</i>]	0	Off		
			1	On		
Defroster Status	Request	#DS	None		※Only supported by the AW-HR140	
query command	Response	dS[Data]	0	Off		
			1	On		
Washer P/T Position	Control	#WPT	None		*Only supported by the AW-HR140	
control command	Response	wPT				
Washer P/T Position	Control	#WPR	None		※Only supported by the AW-HR140	
Reset	Response	wPR]			
control command						

Example of use) Defroster Control: On

[Control] $PC \rightarrow AW-HR140$

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23D71&res=1

[Response] AW-HR140 → PC

200 OK "d71"

3.1.15. Option switch setting

These commands control the On/Off of the option functions.

Table 3.1.15. option switch

Command name	Category	Command	Data value	Setting	Remarks
Option SW	Control	#D6[Data]	0	OFF	XOnly supported by the
control command	Response	d6[Data]	1	ON	AW-HE60/AW-HE130
					/AW-HE40/AW-UE70/AW-HE42/AW-H
					R140/AW-UE150
					OFF: Switching to Day mode.
					ON: Switching to Night mode.
Option SW	Request	#D6	None		※Only supported by the
query command	Response	d6[Data]	0	OFF	AW-HE60/AW-HE130
			1	ON	/AW-HE40/AW-UE70/AW-HE42/AW-H
					R140/AW-UE150
					OFF: Day mode
					ON: Night mode

Example of use)

Option SW: On

[Control] $PC \rightarrow AW-HE60$

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23D61&res=1

[Response] AW-HE60 \rightarrow PC

200 OK "d61"

3.1.16. Resolution control

These commands control the resolution control functions.

Table 3.1.16. Status Lamp

Command name	Category	Command	Data value	Setting	Remarks			
Resolution control	Control	#RZL[Data]	In the case of t	In the case of the AW-HE40/AW-UE70/AW-HE42				
control command			0	640x360				
	Response	rZL[Data]	1	320x180				
			In the case of t	the AW-UE150				
			0	640x360				
			1	320x180				
			2	1280x720				
			3	1920x1080				
Resolution control	Request	#RZL	None					
query command	Response	rZL[Data]	In the case of t	the AW-HE40/AW-	-UE70/AW-HE42			
			0	640x360				
			1	320x180				
			In the case of t	the AW-UE150				
			0	640x360				
			1	320x180				
			2	1280x720				
			3	1920x1080				

Example of use)

•Resolution Control: 640x360

[Control] PC \rightarrow AW-UE150

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RZL0&res=1

[Response] AW-UE150→ PC

200 OK "RZL0"

3.1.17. Simultaneous query command

These query commands can get multiple parameters simultaneously.

Table 3.1.17. Simultaneous query command

Command name	Category	Command	Data value	Setting	Remarks
Get Gain/	Request	#PTG	None		**Only supported by the
ColorTemp/ Shutter/ND query command	Response	pTG[Data1] [Data2][Dat a3][Data4][[Data1] 08h ~	[Data1] (Gain) 0dB ~	AW-UE150
		Data5][Dat	11h	9dB	
		a6]	~ 1Ah	~ 18dB	
			~ 32h 80h [Data2] 00000h ~ 3A98h [Data3] 0h 1h 2h 3h [Data4] 0001h ~ 2710 h [Data5]	~ 42dB AGC ON [Data2] 0K ~ 15000K [Data3] (Shutter Mode) Off Step Syncro ELC [Data4] (Shutter Step) 1/1 ~ 1/10000 [Data5](Shutte r Synchro)	
			00000h ~ 186A0h [Data6] 0 1	0.0 [Hz] ~ 10000.0[Hz] [Data6] (ND) Throgh 1/4 ND 1/16 ND	
Get Pan/Tilt/Zoom/	Request	#PTV	3 None	1/64 ND	**Only supported by the
Focus/Iris query command	Response	pTV[Data1] [Data2][Dat a3][Data4][Data5]	[Data1] 0000h ~ 8000h	[Data1] (Pan) ccwLimit ~ Center ~	AW-UE150
			FFFFh [Data2] 0000h ~ 8000h ~	cwLimit [Data2] (Tilt) UpLimit ~ Center ~	
			FFFFh [Data3] 555h ~ FFFh	DownLimit [Data3] (Zoom) Wide ~ Tele	

Command name	Category	Command	Data value	Setting	Remarks
			[Data4] 555h ~ FFFh [Data5] 555h ~ FFFh	[Data4](Focus) Near Far [Data5] (Iris) Close Open	
Get Pan/Tilt/ Zoom/Focus/Iris	Request	#PTD	None		**Only supported by the AW-UE150
query command	Response	pTD[Data1] [Data2][Dat a3][Data4][Data5]	[Data1] 0000h ~ FFFFh [Data2] 0000h ~ FFFFh [Data3] 000h ~ 3E7h [Data4] 00h ~ 63h [Data5] 00h ~ FEh FFh	[Data1] (Pan) 0000h ~ FFFFh [Data2] (Tilt) 0000h ~ FFFFh [Data3] (Zoom) 0 ~ 999 [Data4] (Focus) 0 ~ 99 [Data5] (Iris) F0.0 ~ F25.4 CLOSE	

• Get Gain/ Color Temp/ Shutter/ND

[Control] PC \rightarrow AW-UE150

http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTG&res=1

[Response] AW-UE150 → PC

200 OK "PTG[Data1][Data2][Data3][Data4][Data5]"

3.2. Camera control

The camera control commands are based on the HTTP1.1 communication specifications.

Their format is given below. For details on the HTTP messages, refer to <Appendix>.

[Command format]

[Send]

http://[IP Address]/cgi-bin/aw_cam?cmd=[Command]&res=[Type]

```
XIP Address ...... IP address of camera at connection destination
*Command ...... Details given in "Command" column in the command tables below
*Type ..... Normally "1" (but "0" for the AWB[OWS] and ABB[OAS] commands)
```

[Receive]

200 OK "Command"

****Command......** Response value of each command; described in the HTTP message body.

There is no response in the case of an AWB or ABB command whose Type is 0.

Refer to "4. Camera information update notification" in order to receive the AWB/ABB result notifications.

Example: Focus setting = Auto

[Send]

http://192.168.0.10/cgi-bin/aw_cam?cmd=OAF:0&res=1

[Receive] The response is the HTTP response. 200 OK "OAF:0"

Given below is the sequence used when communication has been performed in accordance with the command format described on the previous page.

For the sequence when errors have been generated in response to commands, refer to "6. Error return".

[Sequence]

"PC1" is the control terminal in the sequence below.

Example: Focus setting = Auto

Camera IP Address = 192.168.0.10

Command = OAF:1

Auto focus control is performed from PC1, and [200 OK "OAF:1"] is returned as the response. Both a control command and query command are available as the camera control commands. Given below is the command sequence.

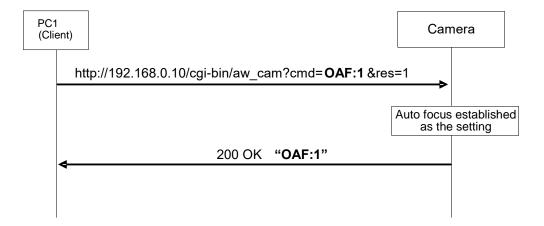


Fig.3.2-1 Camera control command sequence

The following restrictions should be noted when using these commands.

These restrictions are as follows.

[Restrictions]

- 1. When sending the camera control commands, send the commands with a gap of 130 ms between each command.
 - Given below is the command sequence.

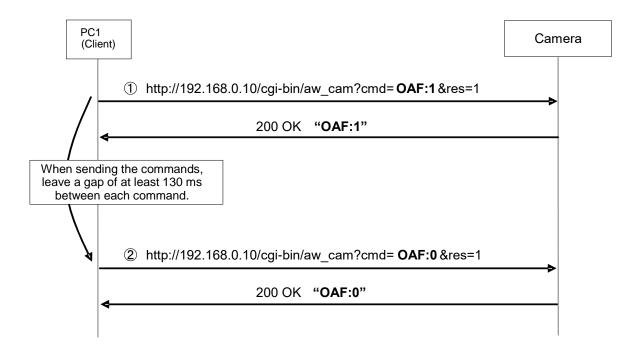


Fig.3.2-2 Restrictions

- 2. 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.)
 - *The applicable models incorporate an EEPROM for storing the settings, and each time a command that changes the settings is received, data is written in the EEPROM. The number of times data can be written in the EEPROM is limited so if data is sent frequently, the model will cease to operate normally when the maximum number of times for writing the data has been reached.

3.2.1. Lens operations

3.2.1.1. Focus

These commands exercise Auto/Manual control of the focusing and one-touch auto focus control of the camera.

Commands which control the focusing are also described in section "3.1.5.2. Focus" of "3.1. Pan-tilt head control".

Table 3.2.1.1. Focus

Command name	Category	Command	Data value	Setting	Remarks
Focus	Control	OAF:[Data]	0	Manual	• In case of AW-HE130/AW-HR140,
Auto/Manual			1	Auto	focus cannot be set to Auto when
control command					FrameMix is set to 18 [dB] or
	D	045/10-4-1			higher.
-	Response	OAF:[Data]	N		Not supported by the AK-UB300.
Focus	Request	QAF	None	N4 1	※ Not supported by the AK-UB300.
Auto/Manual	Response	OAF:[Data]	0	Manual	
query command	0	005.0015.43	1	Auto	
One-touch focus	Control	OSE:69:[Data]	1	One Touch AF	One-touch focus On control
control command	Response	OSE:69:1			Not supported by the AK-UB300.
Focus control	Control	HFF	None		※ Only supported by the AK-UB300.
(toward FAR end)					
control command					
	Response	HFF			
Focus control	Control	HFN	None		※ Only supported by the AK-UB300.
(toward NEAR end)					
control command					
	Response	HFN			
Focus control	Control	HFS	None		※ Only supported by the AK-UB300.
(STOP)					
control command					
	Response	HFS			
Focus speed setting	Control	LFS:[Data]	0	Slow	※ Only supported by the AK-UB300.
control command			}	} }	, , , , , , , , , , , , , , , , , , , ,
			9	Fast	
	Response	LFS:[Data]			
Touch AF	Control	OSJ:28:[Data	[Data	[Data1]H	※ Only supported by theAW-UE150.
		1]:[Data2]	1]	Pos.	" , " , " , " , " , " , " , " , " , "
		.,,[]	00h	0%	
	Response	OSJ:28:[Data	~	~	
	Response		64h	100%	
		1]:[Data2]	[Data	[Data2]V	
			2]	Pos.	
			00h	0%	
			~	0 % ~	
			64h		
			0411	100%	

Example of use)

Focus (Auto/Manual): Auto
 [Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OAF:1&res=1 [Response] AW-HE50 → PC 200 OK "OAF:1"

•Execution of one-touch focus control

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:69:1&res=1

[Response] AW-HE50 → PC

200 OK "OSE:69:1"

3.2.1.2. Iris

These commands control the iris (between Close and Open) of the camera and enable the current iris position to be acquired.

They also enable iris Auto/Manual to be controlled, the iris Auto/Manual status to be checked and the 10 steps of the contrast level (AW-HE50/AW-HE60/AW-HE40/AW-UE70/AW-HE42), the 20 steps of the picture level (AW-HE120) or the 100 steps of the picture level (AW-HE130) to be set and these settings to be checked.

Commands which control the iris are also described in section "3.1.5.3.Iris" of "3.1. Pan-tilt head control".

Table 3.2.1.2. Iris

Command name	Category	Command	Data value	Setting	Remarks
Iris Auto/Manual control command	Control	ORS:[Data]	0	Manual Auto	This command restores the held manual iris setting when control is switched from Auto to Manual. In the case of AW-HE130/AW-HR140, Iris cannot be set to Auto when FrameMix is set to 18 [dB] or higher.
	Response	ORS:[Data]	1		
Iris Auto/Manual	Request	QRS	None		
query command	Response	ORS:[Data]	0	Manual	
4	responds	0110.[2414]	1	Auto	
Contrast level	Control	OSD:48:[<i>Data</i>]		of the AW-HE50/A	W-HF60
Picture level Iris offset control command	Gonaldi	oob. io.[puid]	64h 5Ah~63h 50h~59h 46h~4Fh 3Ch~45h 32h~3Bh 28h~31h 1Bh~27h 14h~1Ah 0Ah~13h 00h~09h	+5 +4 +3 +2 +1 0 -1 -2 -3 -4 -5	While "" is displayed for Contrast Level on the OSD menu, the setting is accepted but it is not reflected in the images. The setting is reflected in the images when the "" display is released. Contrast level control (Auto)

Command name	Category	Command	Data value	Setting	Remarks
			In the case	of the AW-HE120	
			64h	+10	While "" is displayed for
			63h~5Fh	+9	Picture Level on the OSD menu,
			5Eh~5Ah	+8	the setting is accepted but it is not
			59h~55h	+7	reflected in the images.
			54h~50h	+6	The setting is reflected in the
			4Fh~4Bh	+5	images when the "" display is
			4Ah~46h	+4	released.
			45h~41h	+3	Valid when Gain AGC, Iris Auto
			40h~3Ch	+2	and Shutter ELC have been set.
			3Bh~37h	+1	
			36h~32h	0	
			31h~2Dh	– 1	
			2Ch~28h	-2	
			27h~23h	-3	
			22h~1Eh	-4	
			1Dh~19h	- 5	
			18h~14h	-6	
			13h~0Fh	- 7	
			0Eh~0Ah	-8	
			09h~05h	-9	
			04h~00h	–10	
			In the case	of the AW-HE130/A	W-HR140/AW-UE150
			64h~33h	+50~+1	While "" is displayed for
			32h	0	Picture Level on the OSD menu,
			31h~00h	-1~- 50	the setting is accepted but it is not
					reflected in the images.
					The setting is reflected in the
					images when the "" display is
					released.
					Valid when Gain AGC, Iris Auto
					and Shutter ELC have been set.
			In the case	of the AW-HE40/AV	
			64h~33h	+10~+1	While "" is displayed for
			32h	0	Contrast Level on the OSD menu,
			31h~00h	-1~-10	the setting is not accepted.
				of the AK-UB300	
			00h	0	 Functions as iris offset.
	Response	OSD:48:[<i>Data</i>]	₹	₹	
			64h	+100	

Command name	Category	Command	Data value	Setting	Remarks
Contrast level	Request	QSD:48	None		
Picture level	Response	OSD:48:[Data]		f the AW-HE	50/AW-HE60
query command			64h	+5	Contrast level
			5Ah~63h	+4	
			50h~59h	+3	
			46h~4Fh	+2	
			3Ch~45h	+1	
			32h~3Bh	0	
			28h~31h	-1	
			1Bh~27h	-2	
			14h~1Ah	-3	
			0Ah~13h	-4	
			00h~09h	- 5	
			In the case o		
			64h	+10	Picture level
			63h~5Fh	+9	Valid when Gain AGC, Iris Auto and Shutter FLC have been set.
			5Eh~5Ah	+8	Shutter ELC have been set.
			59h~55h	+7	
			54h~50h	+6	
			4Fh~4Bh	+5	
			4Ah~46h	+4	
			45h~41h	+3	
			40h~3Ch	+2	
			3Bh~37h	+1	
			36h~32h	0	
			31h~2Dh	-1	
			2Ch~28h	-2	
			27h~23h	-3	
			22h~1Eh	-4	
			1Dh~19h	- 5	
			18h~14h	-6	
			13h~0Fh	-7	
			0Eh~0Ah	-8	
			09h~05h	-9	
			04h~00h	_10	1400/004/1154/004/1154/50
					130/AW-HR140/AW-UE150
			64h~33h	+50~+1	Valid when Gain AGC, Iris Auto and
			32h	0	Shutter ELC have been set.
			31h~00h	-1~-50	(40/4)// [1570/4)// [1540
					40/AW-UE70/AW-HE42
			64h~33h	+10~+1	Contrast level
			32h	0	
			31h~00h	-1~-10	
			In the case o	1	
			00h	0	•Functions as iris offset.
			\	- } }	
Auto irio leval	Control	OSI:1D:[Doto]	64h	+100	W Only cumported by the AV LID200
Auto iris level	Control	OSI:1D:[Data]	00h	0	Only supported by the AK-UB300.
control command	Response	OSI:1D:[Data]	\	} +100	
Auto inic laval	Demo-4	001:10	64h	T100	W Only supported by the AK UDOOS
Auto iris level	Request	QSI:1D	None	0	※ Only supported by the AK-UB300.
query command	Response	OSI:1D:[Data]	00h	0	
			} 64h	∤ +100	
			0411	T100	

Command name	Category	Command	Data value	Setting	Remarks
Iris F value	Request	QIF	None		※ Only supported by the
query command					AK-UB300/AW-UE150.
	Response	OIF:[Data]	0Eh (=14)	F1.4	
			₹	₹	
			1Ch (=28)	F2.8	
			₹	₹	
			38h (=56)	F5.6	
			₹	₹	
			A0h (=160)	F16	
			FFh	CLOSE	
Iris volume	Control	ORV:[Data]	000h	Close	Iris volume control (Manual)
control command			₹	₹	
			3FFh	Open	
	Response	ORV:[Data]			
Iris volume	Request	QRV	None		Iris volume status request (Manual)
query command	Response	ORV:[Data]	000h	Close	
			₹	₹	
			3FFh	Open	
	Request	QSD:4F	None		Not supported by the AK-UB300.
	Response	OSD:4F:[Data]	00h	Close	Iris volume status request
				0	
Auta inia anaad	Control	OSJ:01:[Data]	Oh	Open Slow	W Only supported by the AW-UE150.
Auto iris speed	Response	OSJ:01:[Data]			% Only supported by the AW-0E 150.
control command	Response	OSJ.01.[Data]	1h 2h	Normal Fast	
Auto iris speed	Request	QSJ:01	None	газі	※ Only supported by the AW-UE150
query command	Response	OSJ:01:[Data]	0h	Slow	% Only supported by the AVV-0E130
query command	rtesponse	OO3.01.[Data]	1h	Normal	
			2h	Fast	
Auto iris window	Control	OSJ:02:[Data]	0h	Normal1	Only supported by the AW-UE150.
control command	Response	OSJ:02:[Data]	1h	Normal2	2, cappenda 2, a.c 02.100.
CONTROL CONTRINGING	Response	000.02.[Data]	2h	Center	
Auto iris window	Request	QSJ:02	None		※ Only supported by the AW-UE150
query command	Response	OSJ:02:[Data]	0h	Normal1	
. ,		' '	1h	Normal2	
			2h	Center	

· Auto iris: On

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=ORS:1&res=1

[Response] AW-HE50 → PC

200 OK "ORS:1"

·Iris: Open

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=ORV:3FF&res=1

[Response] AW-HE50 → PC

200 OK "ORV:3FF"

·Contrast level: 0

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:48:32&res=1 [Response] AW-HE50 \rightarrow PC 200 OK "OSD:48:32"

3.2.1.3. Zoom

These commands control the camera's zoom.

Commands that control the zoom are also described in section "3.1.5.1. Zoom" of "3.1. Pan-tilt head control".

Table 3.2.1.3. Zoom control

Command name	Category	Command	Data	Setting	Remarks
Zoom control (toward TELE end) control command	Control	HZT	None		※ Only supported by the AK-UB300.
	Response	HZT			
Zoom control (toward WIDE end) control command	Control	HZW	None		※ Only supported by the AK-UB300.
	Response	HZW			
Zoom control (STOP) control command	Control	HZS	None		Only supported by the AK-UB300.
	Response	HZS]		
Zoom speed setting control command	Control	LZS:[Data]	0 }	Slow	※ Only supported by the AK-UB300.
	Response	LZS:[Data]			

Example of use)

Zoom control (toward TELE end)

[Control] PC → AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=HZT&res=1

[Response] AK-UB300 → PC 200 OK "HZT"

3.2.1.4. ND filter setting

These commands control the ND filter of the camera, and they enable the ND filter status to be acquired.

Table 3.2.1.4. ND filter setting

Table 3.2.1.4. ND filter setting							
Command name	Category	Command	Data value	Setting	Remarks		
ND filter	Control	OFT:[Data]	T:[Data] In the case of the AW-HE120 /AW-UE150				
control command			0	Through	ND filter switching is not possible in		
			1	1/4	Night mode		
			2	1/16			
			3	1/64			
			In the cas	e of the AW-HE130/			
			0	Through	ND filter switching is not possible in		
			3	1/64	Night mode		
			4	1/8			
				e of the AW-UE70/A	W-HE42		
			0	Through			
			1	1/4 ND			
			2	1/16 ND			
			3	1/64 ND			
				Auto ND			
				e of the AK-UB300			
			0	Clear			
			1	1/4			
			2	1/16 1/64			
	Response	OFT:[Data]	3	1/04			
ND filter	Request	QFT	None				
query command	Response	OFT:[Data]	In the cas	e of the AW-HE120/	AW-UE150		
			0	Through			
			1	1/4			
			2	1/16			
			3	1/64	AVA / LUD4 40		
				e of the AW-HE130/	AVV-HR140		
			0 3	Through 1/64			
			4	1/8			
				e of the AW-UE70/A	L M/-HE42		
			0	Through	VV-1 1L-72		
			1	1/4 ND			
			2	1/16 ND			
			3	1/64 ND			
			8	Auto ND			
			In the case	e of the AK-UB300			
			0	Clear			
			1	1/4			
			2	1/16			
			3	1/64			

Example of use) ND filter: 1/4 **[Control]** PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OFT:1&res=1

[Response] AW-HE120 → PC

200 OK "OFT:1"

3.2.1.5. Lens information notification

These commands acquire lens information.

Commands that acquire lens information are also described in section "3.1.6. Lens information notification" of "3.1. Pan-tilt head control".

Table 3.2.1.5. Lens information notification

Command	Category	Command	Data value	Setting	Remarks
Lens information query command	Request	QSI:18	[Data1] 555h	[Data1] Zoom Position Wide	※ Only supported by the AK-UB300.
			}	\ T ₂ ₂	
	Response	OSI:18:[Data1]: [Data2]:[Data3]	FFFh [Data2] 555h	Tele [Data2] Focus Position Near	
			≀ FFFh	} Far	
			[Data3]	[Data3] Iris Position	
			555h	Close	
			} FFFh	} Open	

Example of use)

·Lens information notification

[Control] PC → AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=QSI:18&res=1

[Response] AK-UB300 → PC 200 OK "QSI:18:555:555:555"

3.2.2. Color Bars setting

These commands enable color bar/camera to be switched, the color bar setup to be set and the current settings to be acquired.

Table 3.2.2. Color Bars

Command name	Category	Command	Data value	Setting	Remarks
Color bar/Camera	Control	DCB:[Data]	0	Camera	
control command	Response	DCB:[Data]	1	Color Bars	
Color bar/Camera	Request	QBR	None		
query command	Response	OBR:[Data]	0	Camera Color Bars	
Color bar setup level	Control	DCS:[Data]	0	Off On	**Only enabled for the AW-HE120/ AW-HE130.
control command	Response	DCS:[Data]			
Color bar setup	Request	QCS	None		
level query command	Response	OCS:[Data]	0	Off On	**Only enabled for the AW-HE120/ AW-HE130.
Color bar type	Control	OSD:BA:[Data]	0	TYPE2	
control command	Response	OSD:BA:[Data]	1	TYPE1	AW-UE70/AW-HE42,
Color bar type	Request	QSD:BA	None		·
query command	Response	OSD:BA:[Data]	0	TYPE2 TYPE1	AW-HE40/AW-UE150
Color bar title	Control	OSD:BE:[Data]	0	Off	※Only enabled for the
control command	Response	OSD:BE:[Data]	1	On	AW-UE70/AW-HE42, AW-HE40
Color bar title	Request	QSD:BE	None		
query command	Response	OSD:BE:[Data]	0	Off On	
Color bar tone	Control	OSJ:27:[Data]	0h	Off	※Only enabled for the AW-UE150.
control command	Response	OSJ:27:[Data]	1h 2h	Low Normal	
Color bar tone	Request	QSJ:27	None		
query command	Response	OSJ:27:[Data]	0h	Off	
			1h 2h	Low Normal	

Example of use)

Color bar/Camera control: Color bar

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=DGB:1&res=1

[Response] AW-HE50 → PC

200 OK "DGB:1"

·Color bar setup level: Off

[Control] $PC \rightarrow AW-HE120$

http://192.168.0.10/cgi-bin/aw_cam?cmd=DCS:0&res=1

[Response] AW-HE120 → PC

200 OK "DCS:0"

3.2.3. Scene file setting

These commands specify the scene files of the camera and enable the settings of the currently selected scene file to be acquired.

Table 3.2.3. Scene file setting

		Table 3.2		e file setting	
Command name	Category	Command	Data value	Setting	Remarks
Scene file	Control	XSF:[Data]	In the case		
control command			AW-HE50		0/AW-UE70/AW-HE42.
			1	Manual1	
			2	Manual2	
			3	Manual3	
			4	FullAuto	
				Scene1	AW-HE130/AW-HR140/AW-UE150
			1 2	Scene 1 Scene2	
			3	Scene3	
			4	Scene4	
			-	e of the AK-UB300	
			1	CURRENT	
	Response	XSF:[Data]	2	SCENE1	
	Response	Noi .[Data]	3	SCENE2	
			4	SCENE3	
			5	SCENE4	
			6	SCENE5	
			7	SCENE6	
			8	SCENE7	
			9	SCENE8	
Scene file	Request	QSF	None	SCENEO	
query command	Response	OSF:[Data]	In the case	e of the	
quory command	rtesponse	OOI .[Data]			0/AW-UE70/AW-HE42.
			0	Manual1	The data value differs depending
			1	Manual2	on the responses to the control
			2	Manual3	command and query command.
			3	FullAuto	
					AW-HE130/AW-HR140/AW-UE150
			0	Scene1	The data value differs depending
			1	Scene2	on the responses to the control
			2	Scene3	command and query command.
			3	Scene4 e of the AK-UB300	
					The data value differs depending
			0	CURRENT	on the responses to the control
			1	SCENE1	command and query command.
			2	SCENE2	command and quory command.
			3	SCENE3	
			4	SCENE4	
			5	SCENE5	
			6	SCENE6	
			7	SCENE7	
			8	SCENE8	

Example of use) Scene file: Manual1

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=XSF:1&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "XSF:1"

3.2.4. Shutter mode setting

These commands control the shutter of the camera and enable the currently set shutter mode to be acquired.

Table 3.2.4. Shutter mode setting

			Data	mode setting	
Command name	Category	Command	value	Setting	Remarks
Shutter	Control	OSH:[Data]	In the cas	se of the	
control command			AW-HE50	D/AW-HE60/AW-HE40/A	AW-UE70/AW-HE42.
			0h	Shutter Off	Disabled at the FullAuto
			3h	1/100(59.94Hz)	setting
				1/120(50Hz)	(ER3 is returned).
			5h	1/250	When auto iris is On, the
			6h	1/500	setting is accepted but it is not
			7h	1/1000	reflected in the images. The
			8h	1/2000	setting is reflected in the
			9h	1/4000	images when auto iris is
			Ah	1/10000	changed from On to Off.
			Bh	Synchro-Scan	
				se of the AW-HE120	
			0h	Shutter Off	
			3h	1/100(59.94Hz)	
				1/120(50Hz)	
			5h	1/250	
			6h	1/500	
			7h 8h	1/1000 1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
					E130/AW-HR140 is set to
				.94i / 1080/59.94P / 720	
			0h	Shutter Off	·
			3h	1/100	
			4h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	E420/AM/ LID440 : + +-
			(1080/29.		E130/AW-HR140 is set to
			0h	Shutter Off	
			2h	1/60	
			4h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
			Fh	1/30	
					E130/AW-HR140 is set to
			(1080/23.	.98p)	

Command name	Category	Command	Data value	Setting	Remarks
			0h	Shutter Off	
			2h	1/60	
			4h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
			Dh	1/24	
				output format of AW-H / 1080/50P / 720/50P /	E130/AW-HR140 is set to 480/50P)
			0h	Shutter Off	
			2h	1/60	
			3h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
					E130/AW-HR140 is set to
			(1080/25		21007.07 10000000000000000000000000000000
			0h	Shutter Off	
			2h	1/60	
			3h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
	Response	OSH:[Data]	Eh	1/25	
Shutter	Request	QSH	None		
query command	Response	OSH:[Data]	In the cas		
				0/AW-HE60/AW-HE40/A	AW-UE70/AW-HE42.
			0h	Shutter Off	
			3h	1/100(59.94Hz)	
				1/120(50Hz)	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
				se of the AW-HE120	
			0h	Shutter Off	
			3h	1/100(59.94Hz)	
				1/120(50Hz)	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	

Command name	Category	Command	Data	Setting	Remarks
John Maria Harris	- Catogory	- Communia	value		Romana
			9h Ah	1/4000 1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
					E130/AW-HR140 is set to
				.94i / 1080/59.94P / 720	
			0h	Shutter Off	,
			3h	1/100	
			4h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah Bh	1/10000	
			Ch	Synchro-Scan ELC	
					E130/AW-HR140 is set to
			(1080/29	•	- 100/AVV-111(140 15 561 10
			0h	Shutter Off	
			2h	1/60	
			4h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch	ELC	
			Fh	1/30	[[120/A\A/ LID140 is set to
			(1080/23		E130/AW-HR140 is set to
			0h	Shutter Off	
			2h	1/60	
			4h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh Ch	Synchro-Scan ELC	
			Dh	1/24	
					E130/AW-HR140 is set to
				i / 1080/50P / 720/50P /	
			0h	Shutter Off	
			2h	1/60	
			3h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
			Ah	1/10000	
			Bh	Synchro-Scan	
			Ch When the	ELC	[
			(1080/25		E130/AW-HR140 is set to
			(1000/23	Υ)	

Command name	Category	Command	Data	Setting	Remarks
			value 0h	Shutter Off	
			2h	1/60	
			3h	1/120	
			5h	1/250	
			6h	1/500	
			7h	1/1000	
			8h	1/2000	
			9h	1/4000	
				1/10000	
			Ah		
			Bh	Synchro-Scan	
			Ch	ELC	
Cumphra again	Control	OMC:[Detel	Eh the see	1/25	LIFEO
Synchro scan control command	Control	OMS:[Data]		se of the AW-HE50/AW	1
Control Command			001h	60.24Hz(59.94Hz)	Disabled at the FullAuto setting
			١,	50.20Hz(50Hz)	(ER3 is returned).
			₹	\ \	When auto iris is On, the
					setting is accepted but it is not
			0FFh	646.21Hz(59.94Hz)	reflected in the images. The
				538.51Hz(50Hz)	setting is reflected in the
					images when auto iris is
					changed from On to Off.
			In the cas	se of the AW-HE120	
			001h	60.17Hz(59.94Hz)	While "" is displayed for
				50.19Hz(50Hz)	Step/Synchro on the OSD
			₹ .	≀ ` ′	menu, the setting is accepted
					but it is not reflected in the
			0FFh	644.26Hz(59.94Hz)	images.
				537.13Hz(50Hz)	The setting is reflected in the
					images when the "" display
					is released.
			In the cas	se of the AW-HE130/AV	
			001h	60.15Hz(59.94Hz)	While "" is displayed for
			00111	50.15Hz(50Hz)	Step/Synchro on the OSD
			₹	}	menu, the setting is accepted
			'	•	but it is not reflected in the
			0FFh	642 244-/50 044-)	
			OFFII	642.21Hz(59.94Hz)	images.
				535.71Hz(50Hz)	The setting is reflected in the
					images when the "" display
			In the co	l se of the AW-HE40/AW	is released.
			001h		• Disabled at the FullAuto setting
			00111	59.94Hz(59.94Hz)	
				50.00Hz(50Hz)	(ER3 is returned).
			₹	\ \	While "" is displayed for
					Step/Synchro on the OSD
			0FFh	660.09Hz(59.94Hz)	menu, the setting is not
				570.13Hz(50Hz)	accepted.
-	Response	OMS:[Data]	-	, ,	
Synchro scan	Request	QMS	None		
query command	Response	OMS:[Data]		l se of the AW-HE50/AW	I -HE60
4.51, 0011111IIIII	. tooponise	Civio.[Data]	001h	60.24Hz(59.94Hz)	
			00111	50.20Hz(50Hz)	
			}	30.20112(30112)	
		İ	1	,	
			0FFh	646.21Hz(59.94Hz)	
			0FFh	646.21Hz(59.94Hz) 538.51Hz(50Hz)	
				538.51Hz(50Hz)	
			In the cas	538.51Hz(50Hz) se of the AW-HE120	
				538.51Hz(50Hz)	

Command name	Category	Command	Data value	Setting	Remarks
			value		
			0FFh	644.26Hz(59.94H	Hz)
				537.13Hz(50Hz)	·
				se of the AW-HE13	
			001h	60.15Hz(59.94Hz	<u>z</u>)
			\	50.15Hz(50Hz)	
			`		
			0FFh	642.21Hz(59.94H	Hz)
				535.71Hz(50Hz)	·
					/AW-UE70/AW-HE42.
			001h	59.94Hz(59.94Hz	<u>z</u>)
				50.00Hz(50Hz)	
			₹	}	
			0FFh	660.09Hz(59.94H	1-1
			OFFII	570.13Hz(50Hz)	12)
Auto shutter limit	Control	OSD:BF:[Data]	In the ca	se of the AW-UE70	/AW-HE42
control command	0 21111			[59.94Hz] [50Hz	
			0	Off Off	•
			1	1/60 1/50	
			2	1/100 1/100	
			3	1/120 1/125	
			4	1/250 1/250	
	Response	OSD:BF:[Data]			
				ase of the AW-UE	150
			2	1/100	
			3	1/120	
And a divide a limit	Demost	OOD-DE	4	1/250	
Auto shutter limit query command	Request Response	QSD:BF	None	a of the AM/ LIE70	//A/A/ HE42
query command	Response	OSD:BF:[Data]	in the ca	se of the AW-UE70 [59.94Hz] [50Hz	
			0	Off Off	·I
			1	1/60 1/50	
			2	1/100 1/100	
			3	1/120 1/125	
			4	1/250 1/250	
			In the ca	ase of the AW-UE	150
			2	1/100	
			3	1/120	
			4	1/250	
Shutter SW	Control	OSG:59:[Data]	0	Off	**Only enabled for the AK-UB300.
control command	_		1	On	
0	Response	OSG:59:[Data]	1		
Shutter SW	Request	QSG:59	None	0"	**Only enabled for the AK-UB300.
query command	Response	OSG:59:[<i>Data</i>]	0	Off	
			1	On	
Shutter mode	Control	OSG:5A:[Data]	0	Shutter	**Only enabled for the AK-UB300.
control command		000 54 55 7 5	1	Synchro	
0	Response	OSG:5A:[Data]			W0.1
Shutter mode	Request	QSG:5A	None		**Only enabled for the AK-UB300.

Command name	Category	Command	Data value	Setting	Remarks
query command	Response	OSG:5A:[Data]	0 1	Shutter Synchro	
			1.00		
Shutter speed	Control	OSG:5D:[Data]		e output format of AK-UI	B300 is set to
control command			(59.94i / 04h	1/100	
			04h 05h	1/120	
			06h	1/125	
			07h	1/250	
			08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
				e output format of AK-UI	B300 is set to
			(50i / 50p	·'	T
			02h	1/60	
			04h 06h	1/100 1/125	
			07h	1/250	
			08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
			When the	l e output format of AK-UI	B300 is set to
			(29.97p /		

Command name	Category	Command	Data	Setting	Remarks
	Outegory	Command	value	_	Remarks
			00h 01h	1/48	
			01h 02h	1/50	
				1/60	
			03h	1/96	
			04h	1/100	
			05h	1/120	
			06h	1/125	
			07h	1/250	
			08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
			When the	l e output format of AK-UI	3300 is set to
			(25p)	e output format of AR-Of	5500 is set to
			00h	1/48	
			01h	1/50	
			02h	1/60	
			03h	1/96	
			04h	1/100	
			06h	1/125	
			07h	1/250	
			08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
	Response	OSG:5D:[Data]			
Shutter speed	Request	QSG:5D	None		**Only enabled for the AK-UB300.
query command	Response	OSG:5D:[Data]		e output format of AK-UI	3300 is set to
			(59.94i /	1/48	
			00h 01h	1/48	
			02h	1/60	
			03h	1/96	
			04h	1/100	
			05h	1/120	
			06h	1/125	
			07h	1/250	
			08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	

			Data	2	
Command name	Category	Command	value	Setting	Remarks
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
				e output format of AK-UE	3300 is set to
			(50i / 50p		
			02h	1/60	
			04h	1/100	
			06h	1/125 1/250	
			07h 08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
				e output format of AK-UE	3300 is set to
			(29.97p/		
			00h	1/48	
			01h	1/50	
			02h	1/60	
			03h	1/96	
			04h	1/100	
			05h	1/120	
			06h 07h	1/125 1/250	
			0711 08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	
			0Fh	120.0deg	
			10h	90.0deg	
			11h	45.0deg	
				e output format of AK-UE	B300 is set to
			(25p)	4/40	
			00h	1/48	
			01h	1/50	
			02h 03h	1/60 1/96	
			03h 04h	1/100	
			0411 06h	1/125	
			07h	1/250	
			08h	1/500	
			09h	1/1000	
			0Ah	1/1500	
			0Bh	1/2000	
			0Ch	180.0deg	
			0Dh	172.8deg	
			0Eh	144.0deg	

Command name	Category	Command	Data value	Setting	Remarks
			0Fh 10h 11h	120.0deg 90.0deg 45.0deg	
Shutter mode control command	Control	OSJ:03:[Data]	0h 1h 2h	Off Step Synchro	※Only enabled for the AW-UE150.
	Response	OSJ:03:[Data]	3h	ELC	
Shutter mode query command	Request Response	QSJ:03 OSJ:03:[Data]	None 0h 1h 2h 3h	Off Step Synchro ELC	※Only enabled for the AW-UE150.
Shutter step control command	Control	OSJ:04:[Data]	01h	1 1	※Only enabled for the AW-UE150
Shutter step control command	Response Control	OSJ:04:[Data] OSJ:05:[Data]	64h 01h ≀	100 1 ?	%Only enabled for the AW-UE150
	Response	OSJ:05:[Data]	64h	100	
Shutter step control command	Control	OSJ:06:[Data]	0001h -	1/1 -	※Only enabled for the AW-UE150
	Response	OSJ:06:[Data]	2710 h	1/10000	•When the output format of is set to (59.94p / 59.94i) 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (29.97p) 1/30,1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/10000 •When the output format of is set to (23.98p / 24p) 1/24,1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (23.98p / 24p) 1/24,1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (50p / 50i) 1/60, 1/100, 1/1200, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (25p) 1/25,1/50,1/60, 1/100, 1/2000, 1/250, 1/500, 1/1000, 1/8000, 1/10000
Shutter step query command	Request Response	QSJ:06 OSJ:06:[Data]	None 0001h - 2710 h	1/1 - 1/10000	 **Only enabled for the AW-UE150 When the output format of is set to (59.94p / 59.94i) 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000

Command name	Category	Command	Data value	Setting	Remarks
Shutter synchro	Control	OSJ:07:[Data]	01h	1	•When the output format of is set to (29.97p) 1/30,1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (23.98p / 24p) 1/24,1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (50p / 50i) 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 •When the output format of is set to (25p) 1/25,1/50,1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 ※Only enabled for the
control command	Response	OSJ:07:[Data]	≀ 64h		AW-UE150
Shutter synchro control command	Control	OSJ:08:[Data] OSJ:08:[Data]	01h	1	**Only enabled for the AW-UE150
Shutter synchro	Response Control	OSJ:08:[Data]	00000	0.0 [Hz]	XOnly enabled for the
control command	Response	OSJ:09:[Data]	h - 186A0 h	- 10000.0[Hz]	AW-UE150 •When the output format of is set to (59.94p / 59.94i) 60.0Hz~7200Hz •When the output format of is set to (29.97p) 30.0Hz~7200Hz •When the output format of is set to (23.98p / 24p) 24.0Hz~7200Hz •When the output format of is set to (50p / 50i) 50.0Hz~7200Hz •When the output format of is set to (25p) 25.0Hz~7200Hz
Shutter synchro query command	Request Response	QSJ:09 OSJ:09:[Data]	None 00000 h - 186A0 h	0.0 [Hz] - 10000.0[Hz]	 ※Only enabled for the AW-UE150. •When the output format of is set to (59.94p / 59.94i) 60.0Hz~7200Hz •When the output format of is set to (29.97p) 30.0Hz~7200Hz •When the output format of is

Command name	Category	Command	Data value	Setting	Remarks
					set to (23.98p / 24p) 24.0Hz~7200Hz •When the output format of is set to (50p / 50i) 50.0Hz~7200Hz •When the output format of is set to (25p) 25.0Hz~7200Hz 50.0Hz~7200Hz •25p ₹—ド 25.0Hz~7200Hz

•Shutter: 1/500

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSH:6&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OSH:6"

•Synchro scan (when 59.94Hz has been set as the frequency): 60.24Hz

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OMS:001&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OMS:001"

3.2.5. Frame mix setting

These commands enable the frame mixing of camera to be set and the current settings to be acquired.

Table 3.2.5. Frame mix setting

		Table 3.2.5	Data	ix setting			
Command name	Category	Command	value	Setting	Remarks		
Frame mix	Control	OSA:65:[Data]	In the case of the AW-HE50/AW-HE60				
control command			00h	Off	Disabled at the FullAuto setting		
			06h	6dB	(ER3 is returned).		
			0Ch	12dB	When auto iris is On, the setting		
			12h	18dB	is accepted but it is not		
			80h	Auto	reflected in the images. The		
					setting is reflected in the		
					images when auto iris is		
					changed from On to Off.		
			In the case /AW-UE15		AW-HE130/AK-UB300/AW-HR140		
			00h	Off	In the case of AW-HE120, when		
			06h	6dB	the format is 1050/59.94i and		
			0Ch	12dB	1080/50i, or the shutter is set to		
			12h	18dB	other than OFF, the setting is		
			18h	24dB	accepted but it is not reflected in		
					the images. The setting is		
					reflected in the images when the		
					above restrictions are released.		
					 In the case of AW-HE130, 		
					FrameMix cannot be set to 18		
					[dB] or higher when either Iris,		
					Gain, or Focus is set to Auto.		
				1	AW-UE70/AW-HE42		
			00h	Off	Disabled at the FullAuto setting (FD2 is returned)		
			06h	6dB	(ER3 is returned).		
			0Ch	12dB	When auto iris is On, the setting		
	_	004.05.15.4.1	12h	18dB	is not accepted		
	Response	OSA:65:[<i>Data</i>]	18h	24dB			
<u>.</u>	D .	004.05	80h	Auto			
Frame mix	Request	QSA:65	None	of the AW-HE50/A	NA LIECO		
query command	Response	OSA:65:[<i>Data</i>]	00h	Off	AVV-MEOU		
			06h	6dB			
			0Ch	12dB			
			12h	18dB			
			80h	Auto			
					AW-HE130/AK-UB300/AW-HR140		
			/AW-UE15				
			00h	Off			
			06h	6dB			
			0Ch	12dB			
			12h	18dB			
			18h	24dB	NA 11570/ANA 11570		
				Ì	AW-UE70/AW-HE42		
			00h	Off			
			06h	6dB			
			0Ch	12dB			
			12h	18dB			
			18h	24dB			
			80h	Auto			

Command name	Category	Command	Data value	Setting	Remarks
Maximum frame mix value control command	Control	OSE:74:[Data]	00 01 02 03	0dB 6dB 12dB 18dB	Disabled at the FullAuto setting (ER3 is returned). Maximum frame mix value control (Auto) Supported only by the AW-HE50/AW-HE60/AW-HE40/AW-UE70/AW-HE42.
	Response	OSE:74:[Data]			
Maximum frame mix	Request	QSE:74	None		
value query command	Response	OSE:74:[<i>Data</i>]	00 01	0dB 6dB	**Supported only by the AW-HE50/AW-HE60/AW-HE40/
			02 03	12dB 18dB	AW-UE70/AW-HE42.

•Frame mix: 12dB

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:65:0C&res=1

[Response] AW-HE50 → PC 200 OK "OSA:65:0C"

•Maximum frame mix value: 18dB

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:74:03&res=1

[Response] AW-HE50 → PC 200 OK "OSE:74:03"

3.2.6. Gain setting

These commands enable the gain settings of the camera to be established and the current settings to be acquired.

Table 3.2.6. Gain setting

Table 3.2.6. Gain setting							
Command name	Category	Command	Data value	Setting	Remarks		
Gain	Control	OGU:[Data]	In the case of the AW-HE50/AW-HE60				
control command			08h	0dB	Disabled at the FullAuto setting		
			0Bh	3dB	(ER3 is returned).		
			0Eh	6dB			
			11h	9dB			
			14h	12dB			
			17h	15dB			
			1Ah	18dB			
			80h	Auto			
				of the AW-HE120			
			08h	0dB	Value can be set in increments of		
			≀	}	1dB.		
			11h	9dB			
			\	≀ 18dB			
			1Ah	Auto			
			80h				
				of the AW-HE130	. Malaca and har and in in an analysis of		
			08h	0db	Value can be set in increments of		
			} 11h		1dB.		
				} }			
			1Ah	18db			
			\ \{\)	\ \			
			2Ch	36db			
			80h	Auto			
				of the AW-HR140/A	W-UE150		
			08h	0db	Value can be set in increments of		
			₹	₹	1dB.		
			11h	9db			
			₹	₹			
			1Ah	18db			
			₹	₹			
			2Ch	36db			
			}	₹			
			32h	42db			
			80h	Auto	M 11570/ANA/ 11540		
				of the AW-HE40/AV			
			08h	0dB	 Disabled at the FullAuto setting (ER3 is returned). 		
			0Bh	3dB	(ยาง เราะเนเทยน).		
			0Eh	6dB			
			}	}	Value can be set in increments of		
			38h	48dB	3dB.		
	Response	OGU:[Data]	80h	Auto			
Gain	Request	QGU	None	(II A)A(LIE 6 (1)	MALIE 00		
query command	Response	OGU:[Data]		of the AW-HE50/AV	V-HE6U		
			08h	0dB			
			0Bh	3dB			
			0Eh	6dB			
			11h 14h	9dB			
				12dB			
			17h 1Ah	15dB 18dB			
			IAII	IOUD			

Command name	Category	Command	Data value	Setting	Remarks
			80h	Auto	
				of the AW-HE120	
			08h	0dB	
				 	
			\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	} }	
			1Ah	18dB	
			80h	Auto	
			In the case	of the AW-HE130	
			08h	0db	
			₹		
			11h ≀	9db ≀	
			1Ah	18db	
			₹	₹	
			2Ch	36db	
			80h	Auto	
				of the AW-HR140/A	AW-UE150
			08h ≀	0db	
			11h	9db	
			₹	₹	
			1Ah	18db	
))) }	
			2Ch ≀	36db ≀	
			32h	42db	
			80h	Auto	
				of the AW-HE40/AV	
			08h	0dB	Disabled at the FullAuto setting
			0Bh	3dB	(ER3 is returned).
			0Eh	6dB	
			} 38h		Value can be set in increments of
			80h	Auto	3dB.
AGC maximum	Control	OSD:69:[<i>Data</i>]		of the AW-HE50/AV	
gain value control command			01 02	6dB 12dB	Disabled at the FullAuto setting (ER3 is returned).
control command			03	18dB	(Erto is retained).
				of the AW-HE120/A	W-HE130/AW-HR140/AW-UE150
			01	6dB	
			02	12dB	
			03	18dB	M 11570/AM 11540
			01	of the AW-HE40/AV	Disabled at the FullAuto setting
			01	12dB	(ER3 is returned).
			03	18dB	
			04	24dB	
			05	30dB	
			06	36dB	
	D	000.00.10-4-1	07	42dB	
	Response	OSD:69:[<i>Data</i>]	08	48dB	
AGC maximum	Request	QSD:69	None	CIL AVALUE COM	A/ 11500
gain value	Response	OSD:69:[Data]	In the case	of the AW-HE50/AV	V-HE60

Command name	Category	Command	Data value	Setting	Remarks
query command			01 02	6dB 12dB	Disabled at the FullAuto setting (FB2 is returned)
			02	120B 18dB	(ER3 is returned).
					W-HE130/AW-HR140/AW-UE150
			01	6dB	
			02	12dB	
			03	18dB	
				of the AW-HE40/AN	W-UE70/AW-HE42 I
			01 02	6dB 12dB	
			03	18dB	
			03	24dB	
			05	30dB	
			06	36dB	
			07	42dB	
			08	48dB	
Gain select	Control	OGS:[Data]	01h	LOW	※Only enabled for the AK-UB300.
control command	Response	OGS:[Data]	04h	MID	
			08h	HIGH	
			06h	S.GAIN1	
			0Ch	S.GAIN2	
			0Eh	S.GAIN3	
Gain select	Request	QGS	None	1.014	
query command	Response	OGS:[Data]	01h	LOW	
			04h 08h	MID	
			06h	HIGH S.GAIN1	
			0Ch	S.GAIN1	
			0Eh	S.GAIN3	
LOW gain	Control	OSA:50:[Data]	7Ah	-6dB	※Only enabled for the AK-UB300.
control command			}	₹	
			7Ch	0dB	
			₹	₹	
	Response	OSA:50:[<i>Data</i>]	88h	36dB	
LOW gain	Request	QSA:50	None		**Only enabled for the AK-UB300.
query command	Response	OSA:50:[<i>Data</i>]	7Ah	-6dB	
, ,	rtesponse	00/1.00.[Baia]	}	} }	
			7Ch	0dB	
			₹	₹	
			88h	36dB	
MID gain	Control	OSA:51:[Data]	7Ah	-6dB	※Only enabled for the AK-UB300.
control command	Response	OSA:51:[Data]	≀	₹	
			7Ch	0dB	
			₹	₹	
			88h	36dB	
MID gain	Request	QSA:51	None		
query command	Response	OSA:51:[Data]	7Ah	-6dB	
			701	\ \ \	
			7Ch	0dB	
			\ 00h) }	
LIIOH	0	004-50-50-4-7	88h	36dB	WOrks and blade it AK LIBOOD
HIGH gain	Control	OSA:52:[Data]	7Ah	-6dB	※Only enabled for the AK-UB300.

Command name	Category	Command	Data value	Setting	Remarks
control command	Response	OSA:52:[Data]	}	}	
			7Ch	0dB	
			₹	}	
			88h	36dB	
HIGH gain	Request	QSA:52	None		※Only enabled for the AK-UB300.
query command	Response	OSA:52:[Data]	7Ah	-6dB	
			₹	}	
			7Ch	0dB	
			₹	}	
			88h	36dB	
Super gain mode	Control	OSA:60:[Data]	0	S.GAIN1	※Only enabled for the AK-UB300.
control command			1	S.GAIN2	
	Response	OSA:60:[Data]	2	S.GAIN3	
Super gain mode	Request	QSA:60	None		※Only enabled for the AK-UB300.
query command	Response	OSA:60:[Data]	0	S.GAIN1	
'			1	S.GAIN2	
			2	S.GAIN3	
Super gain	Control	OSI:28:[Data]	0	Off	※Only enabled for the
control command			1	On	AW-HR140/AW-UE150.
	Response	OSI:28:[Data]			
Super gain	Request	QSI:28	None		※Only enabled for the
query command					AW-HR140/AW-UE150
	Response	OSI:28:[Data]	0	Off	
			1	On	

•Gain: 3dB

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OGU:0B&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OGU:0B"

•AGC maximum gain value: 18dB

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:69:03&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OSD:69:03"

3.2.7. Color settings

3.2.7.1. R/B gain settings

These commands control the R/B gain levels of the camera, and they enable the current settings to be acquired.

Table 3.2.7.1. R/B gain settings

Command name	Category	Command	Data value	Setting	Remarks	
R gain control command	Control	ORI:[Data]	In the case of the AW-HE50/AW-HE60/AW-HE40/ AW-UE70/AW-HE42			
			000h	-30		
			₹	₹	or a later version.	
			096h	0	Setting (menu display value)	
			₹	₹	= (Data value — 0x96) / 5	
			12Ch	+30	Cleared to zero at AWB OK completion.	
					E120/AW-HE130/AW-HR140	
			000h ≀	–150 ≀	Setting (menu display value) = (Data value — 0x96)	
			096h	0	Cleared to zero at AWB OK completion.	
			\ \ \	`}	Cicarca to zero at 7 W/B OT completion.	
			12Ch	+150		
	Response	ORI:[Data]				
	Control	ORG:[Data]	In the case o AW-UE70/AV		IE50/AW-HE60/AW-HE40/	
			00h	-30	※The AW-HE50 is supported by Ver.2	
			₹	₹	or a later version.	
			1Eh	0	Setting (menu display value)	
			₹	₹	= (Data value — 0x1E)	
			3Ch	+30	Cleared to zero at AWB OK completion.	
					E120/AW-HE130/AW-HR140	
			00h	-150	Setting (menu display value) (Data value	
				0	= (Data value — 0x1E) x 5• Cleared to zero at AWB OK completion.	
			\ \	`}	Cleared to zero at AVVB OK completion.	
			3Ch	+150		
	Response	ORG[Data]				
R gain query command	Request	QRI	None		The AW-HE50 is supported by Ver.2 or a later version.	
query command	Response	ORI:[Data]	In the case o	f the AW-H	E50/AW-HE60/AW-HE40/	
			AW-UE70/AV			
			000h	-30	※The AW-HE50 is supported by Ver.2 ■ The AW-HE50 is supported by Ver.2	
			₹	₹	or a later version.	
			096h	0	Data value of response	
			}	}	= (Setting x 5 + 0x96)	
			12Ch	+30	F420/AW LIF420/AW LIF440	
					E120/AW-HE130/AW-HR140	
			000h }	−150 ≀	Data value of response (Setting + 0x96)	
			096h	0	- (Setting + 0x90)	
			\ \ \	``≀		
			12Ch	+150		
R gain	Request	QGR	None		The AW-HE50 is supported by Ver.2 or	
query command	-				a later version.	
	Response	OGR:[Data]	In the case o AW-UE70/AV		IE50/AW-HE60/AW-HE40/	
			00h	-30	※The AW-HE50 is supported by Ver.2	
			₹	₹	or a later version.	
			1Eh	0	Data value of response	
			}	}	= (Setting + 0x1E)	
			3Ch	+30		

Command name	Category	Command	Data value	Setting	Remarks
			In the case o	f the AW-F	IE120/AW-HE130/AW-HR140
			00h	-150	Data value of response
			\ \	`	= (Setting / 5 + 0x1E)
			1Eh ≀	0	
			3Ch	+150	
R gain	Control	OSG:39:[Data]	In the case o	<u> </u>	B300
control command			418h	-1000	
			₹	₹	
			800h	0	
	Doononoo	OSC:20:[Deta]	. ₹	}	
	Response	OSG:39:[<i>Data</i>]	BE8h	+1000	 F450
			In the case o	-200	JE 150
			730□	-200 ~	
			800h	0	
			~	~	
			8C8h	200	
R gain	Request	QSG:39	None		
query command	Response	OSG:39:[Data]	In the case o	f the AK-U	B300
			418h	-1000	
			₹	₹	
			800h	0	
			₹	₹	
			BE8h	+1000	
			In the case o		JE150
			738H	-200	
			~ 800h	0	
			~	~	
			8C8h	200	
B gain	Control	OBI:[Data]	In the case o		IE50/AW-HE60/AW-HE40/
control command			AW-UE70/AV 000h	V-HE42 -30	
			\ \	_30 }	or a later version.
			096h	0	Setting (menu display value)
			₹	₹	= (Data value — 0x96) / 5
			12Ch	+30	Cleared to zero at AWB OK completion.
					IE120/AW-HE130/AW-HR140
			000h ≀	-150 }	• Setting (menu display value) = (Data value — 0x96)
			096h	0	Cleared to zero at AWB OK completion.
			}	`	0.000.00 to 2010 to 11.12 to 11.00.11.p.co.001.
	Response	OBI:[Data]	12Ch	+150	
	Control	OBG:[Data]	In the case o AW-UE70/AV		IE50/AW-HE60/AW-HE40/
			00h	-30	%The AW-HE50 is supported by Ver.2
			₹	₹	or a later version.
			1Eh	0	Setting (menu display value)
			\ \ \	.00	= (Data value — 0x1E)
			3Ch	+30	Cleared to zero at AWB OK completion.
					IE120/AW-HE130/AW-HR140
			00h }	-150 }	• Setting (menu display value) = (Data value — 0x1E) x 5
			1Eh	0	Cleared to zero at AWB OK completion.
	Response	OBG:[Data]	≀	₹	
		_	3Ch	+150	

Command name	Category	Command	Data value	Setting	Remarks
B gain query command	Request	QBI	None		The AW-HE50 is supported by Ver.2 or a later version.
, ,,	Response	OBI:[Data]	In the case o		HE50/AW-HE60/AW-HE40/
			000h	-30	※The AW-HE50 is supported by Ver.2
			₹	. ₹	or a later version.
			096h	0	Data value of response (Satting v. 5 t. 0.000)
				≀ +30	= (Setting x 5 + 0x96)
				1	I IE120/AW-HE130/AW-HR140
			000h	-150	Data value of response
			₹	. ₹	= (Setting + 0x96)
			096h ≀	0	
			12Ch	} +150	
				100	
B gain query command	Request	QGB	None		The AW-HE50 is supported by Ver.2 or a later version.
,	Response	OGB:[Data]	In the case o	f the AW-H	IE50/AW-HE60/AW-HE40/
			AW-UE70/AV	1	
			00h	-30	**The AW-HE50 is supported by Ver.2
				0	or a later version. • Data value of response
			`_''	\ \{\chi_{\chi}\}	= (Setting + 0x1E)
			3Ch	+30	(33)
			In the case o	l of the AW-⊢	L IE120/AW-HE130/AW-HR140
			00h	-150	Data value of response
			}	₹	= (Setting / 5 + 0x1E)
			1Eh	0	
			} 3Ch	} +150	
B gain	Control	OSG:3A:[Data]	In the case of		B300
control command			418h	-1000	
			₹	₹	
			800h	0	
				₹	
	Response	OSG:3A:[Data]	BE8h	+1000	
			In the case o	ī	JE150 I
			738H ~	-200 ~	
			800h	0	
			~	~	
			8C8h	200	
B gain	Request	QSG:3A	None		
query command	Response	OSG:3A:[Data]	In the case o	f the AK-U	B300
			418h	-1000	
			₹	₹	
			800h	0	
) DE0h	11000	
			BE8h In the case o	+1000	 E150
			738H	-200	150
			~	~	
			800h	0	
			~	~	
			8C8h	200	

```
Example of use)
•R gain: -30
 [Control] PC → AW-HE50
    http://192.168.0.10/cgi-bin/aw_cam?cmd=ORG:00&res=1
 [Response] AW-HE50 → PC
    200 OK "ORG:00"
•R gain: +150
 [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw_cam?cmd=ORI:12C&res=1
 [Response] AW-HE120 → PC
    200 OK "ORI:12C"
•B gain: -30
 [Control] PC → AW-HE50
    http://192.168.0.10/cgi-bin/aw_cam?cmd=OBG:00&res=1
 [Response] AW-HE50 → PC
    200 OK "OBG:00"
•B gain: +150
 [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw_cam?cmd=OBI:12C&res=1
 [Response] AW-HE120 → PC
    200 OK "OBI:12C"
```

3.2.7.2. R/B pedestal settings

These commands control the R/B pedestal values of the camera, and they enable the current settings to be acquired.

Table 3.2.7.2. R/B pedestal settings

		Table 5.2.7.2.			.go
Command name	Category	Command	Data value	Setting	Remarks
R pedestal	Control	ORP:[Data]	In the cas	se of the AW	-HE120
control command			000h	-150	Setting (menu display value)
			}	₹	= (Data value — 0x96)
			096h	0	Cleared to zero at ABB OK completion.
			₹	₹	
			12Ch	+150	
					-HE130/AW-HR140 /AW-UE150
			032h	-100	Setting (menu display value)
			}	. ₹	= (Data value — 0x96)
			096h	0	Cleared to zero at ABB OK completion.
	Response	ORP:[Data]	l ≀ 0Fah		
	Control	ORD:[Data]		se of the AW	-HF120
	Control	OND.[Data]	00h	-150	Setting (menu display value)
			₹	130	=(Data value — 0x1E) x 5
			1Eh	0	Cleared to zero at ABB OK completion.
			₹	₹	·
			3Ch	+150	
					-HE130/AW-HR140
			0Ah	-100	Setting (menu display value)
			₹	₹	= (Data value — 0x1E) x 5
			1Eh	0	Cleared to zero at ABB OK completion.
	Response	ORD:[Data]		}	
D 1 ()	.	ODD	32h	+100	WO I
R pedestal query command	Request	QRP	None		**Only supported by the AW-HE120/ AW-HE130.
query command	Response	ORP:[Data]	In the car	se of the AW	
	Response	Orti .[Data]	000h	-150	Data value of response
			₹	}	= (Setting + 0x96)
			096h	0	(Soung Foxes)
			₹		
			12Ch	+150	
			In the cas	se of the AW	-HE130/AW-HR140 /AW-UE150
			032h	-100	
			₹	₹	
			096h	0	
			. ₹	₹	
			0Fah	+100	
	Request	QRD	None		
	Response	ORD:[Data]		se of the AW	
			00h	–150	Data value of response (2 atting / 5 at 2 at 5)
				}	= (Setting / 5 + 0x1E)
			1Eh ≀	0	
			3Ch	+150	
					-HE130/AW-HR140
			0Ah	-100	Data value of response
			₹	₹	= (Setting / 5 + 0x1E)
			1Eh	0	, ,
			₹	₹	
			32h	+100	

Command name	Category	Command	Data	Setting	Remarks
			value		
R pedestal control command	Control	OSG:4C:[Data]	4E0h	-800	**Only enabled for the AK-UB300.
control command			≀ 800h	0	
			}		
	Response	OSG:4C:[Data]	B20h	+800	
R pedestal	Request	QSG:4C	None		※Only enabled for the AK-UB300.
query command	Response	OSG:4C:[Data]	4E0h	-800	
' '			₹	₹	
			800h	0	
			₹	\	
Duradaskal	0	ODD-10-4-1	B20h	+800	115400
B pedestal control command	Control	OBP:[Data]	000h	se of the AW-	Setting (menu display value)
control communa			₹	130	= (Data value — 0x96)
			096h	0	Cleared to zero at ABB OK completion.
			}	\ \ !	
			12Ch	+150	 -HE130/AW-HR140 /AW-UE150
			032h	-100	Setting (menu display value)
			₹	₹	= (Data value — 0x96)
			096h	0	Cleared to zero at ABB OK completion.
	Response	OBP:[Data]	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \.100	
	Control	OBD:[Data]	0Fah	+100 se of the AW-	HF120
	Control	ODD.[Data]	00h	-150	Setting (menu display value)
			₹	₹	= (Data value — 0x1E) x 5
			1Eh	0	Cleared to zero at ABB OK completion.
			} 3Ch	} +150	The value displayed on the menu is the
					command setting multiplied by 5HE130/AW-HR140
			0Ah	-100	Setting (menu display value)
			₹	₹	= (Data value — 0x1E) x 5
			1Eh	0	Cleared to zero at ABB OK completion.
			} 32h	∤ +100	The value displayed on the menu is the
	Response	OBD:[Data]	3211	1 100	command setting multiplied by 5.
B pedestal	Request	QBP	None		※Only supported by the AW-HE120/
query command					AW-HE130.
	Response	OBP:[Data]		se of the AW	
			000h	–150	Data value of response (Setting 1 0)(06)
			096h	0	= (Setting + 0x96)
			₹	≀	
			12Ch	+150	
				1	-HE130/AW-HR140 /AW-UE150
			032h ≀	– 100 }	• Data value of response = (Setting + 0x96)
			096h	0	- (Setting + 0x90)
			₹	₹	
			0Fah	+100	
	Request	QBD	None		LIEAGO
	Response	OBD:[Data]	In the ca	se of the AW	
			\ \	– 150 	• Data value of response = (Setting / 5 + 0x1E)
			1Eh	0	(5544)
			₹	₹	
			3Ch	+150	
					W-HE130/AW-HR140
			0Ah	-100	Data value of response

Command name	Category	Command	Data value	Setting	Remarks
			₹	}	= (Setting / 5 + 0x1E)
			1Eh	0	
			} 32h		
B pedestal	Control	OSG:4E:[Data]	4E0h	-800	※Only enabled for the AK-UB300.
control command			₹	₹	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			800h	0	
			≀	₹	
	Response	OSG:4E:[Data]	B20h	+800	
B pedestal	Request	QSG:4E	None		
query command	Response	OSG:4E:[Data]	4E0h	-800	
			₹	\	
			800h	0	
			≀ B20h	∤	
Master pedestal	Control	OSJ:0F:[Data]	738h	-200	%Only enabled for the AW-UE150
control command	Control	USJ.UF.[Data]	~	~	%Only enabled for the Avv-OE 150
control communa			800h	0	
			~	~	
	Response	OSJ:0F:[Data]	8C8h	+200	
Master pedestal	Request	QSJ:0F	None		**Only enabled for the AW-UE150
query command	Response	OSJ:0F:[Data]	738h	-200	1
			~	~	
			800h	0	
			~	~	
<u> </u>	0	001405043	8C8h	+200	W0 1 11 16 11 NW 115150
G pedestal control command	Control	OSJ:10:[Data]	032h ~	-100 ~	**Only enabled for the AW-UE150
Control Command			096h	0	
			~	~	
	Response	OSJ:10:[Data]	0FAh	+100	
G pedestal	Request	QSJ:10	None		**Only enabled for the AW-UE150
query command	Response	OSJ:10:[Data]	032h	-100	, x =, =
			~	~	
			096h	0	
			~	~	
			0FAh	+100	
Pedestal Offset	Control	OSJ:11:[Data]	0	Off	※Only enabled for the AW-UE150
control command			1	On	
	Response	OSJ:11:[Data]	_		
Pedestal Offset	Request	QSJ:11	None		**Only enabled for the AW-UE150.
query command	Response	OSJ:11:[Data]	0	Off	A City chabled for the Avv-OL 100.
and a community		550[5444]	1	On	

Example of use)

•R pedestal: -150

[Control] $PC \rightarrow AW-HE120$

http://192.168.0.10/cgi-bin/aw_cam?cmd=ORP:000&res=1

[Response] AW-HE120 → PC

200 OK "ORP:000"

3.2.7.3. Color matrix settings

These commands control the color matrix of the camera, and they enable the current settings to be acquired.

Table 3.2.7.3. Color matrix settings

		Table 3.2.7.3	Data	THAT IN COL	
Command name	Category	Command	value	Setting	Remarks
Color matrix control command	Control	OSE:31:[<i>Data</i>]	0 1 2 3	Normal EBU NTSC User	The linear matrix and color correction settings can be selected only at the User setting. Only supported by the AW-HE120/ AW-HE130/AW-HR140/AW-HE40/ AW-UE70/AW-HE42 /AW-UE150.
	Response	OSE:31:[Data]			
Color matrix query command	Request	QSE:31	None		※Only supported by the AW-HE120/ AW-HE130/AW-HR140/AW-HE40/ AW-UE70/AW-HE42 /AW-UE150.
	Response	OSE:31:[<i>Data</i>]	0 1 2 3	Normal EBU NTSC User	
Color matrix	Control	OSG:A0:[Data]	0	Off	※Only enabled for the AK-UB300.
control command	Response	OSG:A0:[Data]	1	On	
Color matrix	Request	QSG:A0	None		
query command	Response	OSG:A0:[Data]	0	Off On	
Matrix table	Control	OSA:00:[Data]	0	TABLE A	※Only enabled for the AK-UB300.
control command	Response	OSA:00:[<i>Data</i>]	1	TABLE B	
Matrix table	Request	QSA:00	None		
query command	Response	OSA:00:[Data]	0	TABLE A TABLE B	
Linear matrix control command	Control	OSA:84:[Data]	0	Off On	※Only enabled for the AK-UB300.
	Response	OSA:84:[Data]	2	On	
Linear matrix	Request	QSA:84	None		※Only enabled for the AK-UB300.
query command	Response	OSA:84:[<i>Data</i>]	0 1 2	Off On On	
Linear matrix R-G control command	Response Control Response	OSD:2F:[Data] OSD:2F:[Data] OSD:A4:[Data] OSD:A4:[Data]	00h	-31	 Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting. ※Only supported by the AW-HE120. Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting. ※Only supported by the AW-HE130/AW-HR140 /AW-UE150.

Command name	Category	Command	Data value	Setting	Remarks
Linear matrix	Request	QSD:2F	None		
R-G	Response	OSD:2F:[Data]	00h	–31	
query command			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\	
			1Fh	0	
			} 3Eh	∤ +31	
	Request	QSD:A4	None	131	%Only supported by the
	rtoquoot	Q02(1	110110		AW-HE130/AW-HR140 /AW-UE150.
	Response	OSD:A4:[Data]	41h	-63	1
			₹	₹	
			80h	0	
			≀ BFh	} +63	
Linear matrix	Control	OSG:A5:N:[Data]	00h	-31	**Only enabled for the AK-UB300.
R-G(N)	Control	USG.AS.N.[Data]	1 0011	-31	%Only enabled for the AK-OB300.
control command			1Fh	0	
control command			1	~	
	Response	OSG:A5:N:[Data]	3Eh	+31	
Linear matrix	Request	QSG:A5:N	None	0.	*Only enabled for the AK-UB300.
R-G(N)	Response	OSG:A5:N:[Data]	00h	-31	2 Acting chabled for the first oboos.
query command	rtooponoo	000101.[5414]	}	}	
,			1Fh	0	
			₹	₹	
			3Eh	+31	
Linear matrix	Control	OSG:A5:P:[Data]	00h	-31	※Only enabled for the AK-UB300.
R-G(P)			₹	₹	
control command			1Fh	0	
			≀	₹	
	Response	OSG:A5:P:[Data]	3Eh	+31	
Linear matrix	Request	QSG:A5:P	None		※Only enabled for the AK-UB300.
R-G(P)	Response	OSG:A5:P:[Data]	00h	-31	
query command			₹	₹	
			1Fh	0	
			₹	₹	
	_		3Eh	+31	
Linear matrix	Control	OSD:30:[Data]	00h	-31	Settings cannot be changed if Normal,
R-B control command	Response	OSD:30:[Data]		0	EBU or NTSC has been selected as the MatrixType setting.
control command			1511		Setting is possible when User has been
			3Eh	+31	selected as the MatrixType setting.
					*Only supported by the AW-HE120.
	Control	OSD:A5:[Data]	41h	-63	Settings cannot be changed if Normal,
	Response	OSD:A5:[Data]	≀	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
) DEP	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Setting is possible when User has been selected as the Matrix Type setting.
			BFh	+63	selected as the MatrixType setting. XOnly supported by the
					AW-HE130/AW-HR140 /AW-UE150.
Linear matrix	Request	QSD:30	None		*Only supported by the AW-HE120.
R-B	Response	OSD:30:[Data]	00h	-31	1 , ., , ,
query command			₹	₹	
			1Fh	0	
			}	}	
	- ·	000.45	3Eh	+31	WOrks some of the fi
	Request	QSD:A5	None		XOnly supported by the AW-HE130/AW-HR140 /AW-UE150.
	Response	OSD:A5:[Data]	41h	-63	AVV-11E 130/AVV-FIR 140 /AVV-UE 130.
	1709h01196	UOD.AJ.[Dala]	H 1111	-00	

Command name	Category	Command	Data value	Setting	Remarks
			80h	0	
			\ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Linear matrix	Control	OSC: AG:N:[Data]	BFh 00h	+63	YOrky analysis for the AV LIP200
R-B(N)	Control	OSG:A6:N:[Data]	0011	-31	**Only enabled for the AK-UB300.
control command			1Fh	0	
control command			; ''	}	
	Response	OSG:A6:N:[Data]	3Eh	+31	
Linear matrix	Request	QSG:A6:N	None		※Only enabled for the AK-UB300.
R-B(N)	Response	OSG:A6:N:[Data]	00h	-31	Acong chabled for the 7th Obooc.
query command	. 100p000		₹	} }	
			1Fh	0	
			₹	₹	
			3Eh	+31	
Linear matrix	Control	OSG:A6:P:[Data]	00h	-31	※Only enabled for the AK-UB300.
R-B(P)			₹	₹	
control command			1Fh	0	
			≀	₹	
	Response	OSG:A6:P:[Data]	3Eh	+31	
Linear matrix	Request	QSG:A6:P	None		
R-B(P)	Response	OSG:A6:P:[Data]	00h	-31	
query command			₹	₹	
			1Fh	0	
			₹	₹	
			3Eh	+31	
Linear matrix	Control	OSD:31:[<i>Data</i>]	00h	_31 }	Settings cannot be changed if Normal, EDITOR NITCO has been as leasted as the
G-R control command				0	EBU or NTSC has been selected as the MatrixType setting.
control command			';''	₹	Setting is possible when User has been
			3Eh	+31	selected as the MatrixType setting.
					**Only supported by the AW-HE120.
	Response	OSD:31:[Data]			
	Control	OSD:A6:[Data]	41h	-6 3	Settings cannot be changed if Normal,
			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			}	}	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
					※Only supported by the
					AW-HE130/AW-HR140 /AW-UE150.
	Response	OSD:A6:[Data]	1		
Linear matrix G-R	Request	QSD:31	None	–31	
query command	Response	OSD:31:[<i>Data</i>]	00h	-31	
query command			1Fh	0	
			₹	`	
			3Eh	+31	
	Request	QSD:A6	None		**Only supported by the
		000 40 50 15	441	00	AW-HE130/AW-HR140 /AW-UE150.
	Response	OSD:A6:[Data]	41h	-63	
			≀ 80h	0	
			}		
			BFh	+63	
Linear matrix	Control	OSG:A7:N:[Data]	00h	-31	
G-R(N)			₹	₹	
control command			1Fh	0	
			₹	}	

Response OSG:A7:N Linear matrix Request QSG:A7:N G-R(N) Response OSG:A7:N query command Linear matrix Control OSG:A7:N	N None N:[<i>Data</i>] 00h	+31	※Only enabled for the AK-UB300.
G-R(N) Response OSG:A7:N	N:[<i>Data</i>] 00h		_ ≪Only enabled for the AK-UB300.
G-R(N) Response OSG:A7:N	N:[<i>Data</i>] 00h		
G-R(N) Response OSG:A7:N	N:[<i>Data</i>] 00h		**Only enabled for the AK-UB300.
G-R(N) Response OSG:A7:N	N:[<i>Data</i>] 00h		
query command	} 1Fh		
	1Fh)	
Linear matrix Control OSG:A7:F		\	
Linear matrix Control OSG:A7:F	≀	0	
Linear matrix Control OSG:A7:F	3Eh	+31	
		-31	**Only enabled for the AK-UB300.
G-R(P)		₹	,
control command	1Fh	0	
	₹	\	
Response OSG:A7:F		+31	WOrds are able of fair than AK LID200
Linear matrix Request QSG:A7:F G-R(P) Response OSG:A7:F		-31	**Only enabled for the AK-UB300.
query command	.[Data] 0011	-31	
' '	1Fh	0	
	₹	₹	
	3Eh	+31	
Linear matrix Control OSD:32:[I		_31 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command	 	0	MatrixType setting.
	1	₹	Setting is possible when User has been
	3Eh	+31	selected as the MatrixType setting.
Response OSD:32:[I	Dotal		**Only supported by the AW-HE120.
Control OSD:A7:[I		-63	Settings cannot be changed if Normal,
	}	₹	EBU or NTSC has been selected as the
	80h	0	MatrixType setting.
		} +63	 Setting is possible when User has been selected as the MatrixType setting.
		100	*Only supported by the
			AW-HE130/AW-HR140 /AW-UE150.
Response OSD:A7:[I	•		
Linear matrix Request QSD:32 G-B Response OSD:32:[I	None Data] 00h	_31	
query command		-31	
	1Fh	0	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\	
Request QSD:A7	3Eh None	+31	%Only supported by the
Troquest QOD., tr	140110		AW-HE130/AW-HR140 /AW-UE150.
Response OSD:A7:[I	-	-63]
	} 80b	₹	
	80h ≀	0	
	BFh	+63	
	וווטן		
Linear matrix Control OSG:A8:N		-31	※Only enabled for the AK-UB300.
G-B(N)	N:[<i>Data</i>] 00h	-31 ≀	**Only enabled for the AK-UB300.
Linear matrix Control OSG:A8:N G-B(N) control command	N:[<i>Data</i>] 00h	-31	※Only enabled for the AK-UB300.
G-B(N)	N:[<i>Data</i>] 00h	-31 ≀	**Only enabled for the AK-UB300.

Command name	Category	Command	Data value	Setting	Remarks
G-B(N)	Response	OSG:A8:N:[Data]	00h	-31	
query command			₹	₹	
			1Fh	0	
			}	}	
1.	0 1 1	000 40 B (B. (4)	3Eh	+31	200 L LL LC II AK LIDOO
Linear matrix G-B(P)	Control	OSG:A8:P:[Data]	00h ≀	-31 ≀	**Only enabled for the AK-UB300.
control command			1Fh	0	
control communa				~	
	Response	OSG:A8:P:[Data]	3Eh	+31	
Linear matrix	Request	QSG:A8:P	None		**Only enabled for the AK-UB300.
G-B(P)	Response	OSG:A8:P:[Data]	00h	-31	
query command			₹	₹	
			1Fh	0	
			\ \ \ \	}	
Linear matrix	Control	OSD:33:[<i>Data</i>]	3Eh 00h	+31 -31	Settings cannot be changed if Normal,
B-R	Response	OSD:33:[Data]	1 0011	-31	EBU or NTSC has been selected as the
control command	. 100p000		1Fh	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			3Eh	+31	selected as the MatrixType setting.
	Control	OSD:A8:[Data]	41h	–63	**Only supported by the AW-HE120.Settings cannot be changed if Normal,
	Response	OSD:A6:[Data]		_03	EBU or NTSC has been selected as the
	rtooponoo	oob., to.[bata]	80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
					**Only supported by the AW-HE130/AW-HR140 /AW-UE150.
Linear matrix	Request	QSD:33	None		**Only supported by the AW-HE120.
B-R	Response	OSD:33:[Data]	00h	–31	Monly supported by the 707 Hz 120.
query command	•	, ,	₹	₹	
			1Fh	0	
			≀ 3Eh	∤ +31	
	Request	QSD:A8	None	731	XOnly supported by the
					AW-HE130/AW-HR140 /AW-UE150.
	Response	OSD:A8:[Data]	41h	-63	
			}	}	
			80h ≀	0	
			BFh	+63	
Linear matrix	Control	OSG:A9:N:[Data]	00h	-31	**Only enabled for the AK-UB300.
B-R(N)			₹	₹	
control command			1Fh	0	
	Posponso	OSC: AO: N: [Data]		}	
Lincor matrix	Response	OSG:A9:N:[Data]	3Eh	+31	WOnly anabled for the AV LIDOO
Linear matrix B-R(N)	Request	QSG:A9:N	None 00h	-31	
query command	Response	OSG:A9:N:[Data]	≀	-31	
			1Fh	0	
			₹	` ≀	
			3Eh	+31	
Linear matrix	Control	OSG:A9:P:[Data]	00h	-31	
B-R(P)			₹	≀	
control command			1Fh	0	
			₹	₹]

Command name	Category	Command	Data value	Setting	Remarks
	Response	OSG:A9:P:[Data]	3Eh	+31	
Linear matrix	Request	QSG:A9:P	None		※Only enabled for the AK-UB300.
B-R(P)	Response	OSG:A9:P:[Data]	00h	-31	
query command			₹	}	
			1Fh	0	
			}	}	
I to a consequent	0 t 1	000-04-10-4-1	3Eh	+31	O attinuo a sanat ha ah an an dif Nama I
Linear matrix B-G	Control Response	OSD:34:[<i>Data</i>] OSD:34:[<i>Data</i>]	00h }	_31 }	• Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command	rtesponse	00D.04.[Data]	1Fh	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			3Eh	+31	selected as the MatrixType setting.
		005.40.55.4			*Only supported by the AW-HE120.
	Control	OSD:A9:[Data]	41h ≀	_63 }	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
	Response	OSD:A9:[Data]	80h	0	MatrixType setting.
			₹	≀	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
					※Only supported by the
	Б.,	000.04	N.		AW-HE130/AW-HR140 /AW-UE150.
Linear matrix B-G	Request Response	QSD:34 OSD:34:[<i>Data</i>]	None 00h	–31	
query command	Response	USD.34.[Data]	10011	-31	
44.5.7 55			1Fh	0	
			₹	₹	
			3Eh	+31	
	Request	QSD:A9	None		**Only supported by the AW-HE130/AW-HR140 /AW-UE150.
	Response	OSD:A9:[Data]	41h	-63	
			≀ 80h	0	
			\ \{\}	}	
			BFh	+63	
Linear matrix	Control	OSG:AA:N:[Data]	00h	-31	※Only enabled for the AK-UB300.
B-G(N)			₹	₹	
control command			1Fh	0	
				≀	
	Response	OSG:AA:N:[Data]	3Eh	+31	
Linear matrix	Request	QSG:AA:N	None		※Only enabled for the AK-UB300.
B-G(N)	Response	OSG:AA:N:[Data]	00h	-31	
query command				}	
			1Fh ≀	0	
			3Eh	+31	
Linear matrix	Control	OSG:AA:P:[Data]	00h	-31	※Only enabled for the AK-UB300.
B-G(P)	Response	OSG:AA:P:[Data]	₹	}	
control command			1Fh	0	
			₹	₹	
			3Eh	+31	
Linear matrix	Request	QSG:AA:P	None		※Only enabled for the AK-UB300.
B-G(P)	Response	OSG:AA:P:[Data]	00h	-31	
query command			₹	₹	
			1Fh	0	
			} 2Fb	}	
0.1	0 1 1	004.05.15.13	3Eh	+31	WOrks and black of the AK LIBOOD
Color correction	Control	OSA:85:[Data]	0	Off	**Only enabled for the AK-UB300.
control command	Response	OSA:85:[Data]	1	On	

Command name	Category	Command	Data value	Setting	Remarks
Color correction	Request	QSA:85	None		
query command	Response	OSA:85:[Data]	0	Off	
			1	On	
Color correct table	Control	OSG:A4:[Data]	0	Α	※Only enabled for the AK-UB300.
control command	Response	OSG:A4:[Data]	1	В	
Color correct table	Request	QSG:A4	None		※Only enabled for the AK-UB300.
query command	Response	OSG:A4:[Data]	0	Α	
			1	В	
Color correction	Control	OSD:86:[Data]	In the c	ase of the A	W-HE120
R GAIN/			01h	-127	Settings cannot be changed if Normal,
SATURATION			₹	₹	EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			}	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Setting is possible when User has been Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
			1 (1	C (1 A)	A LIE 100 (A) A LIE 1 10 (A) A LIE 1
			41h	1	W-HE130/AW-HR140 /AW-UE150
			\ \ \ \ \ \ \	_63 }	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	`≀	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
			In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
			61h	–31	Settings cannot be changed if Normal,
			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			} I 9Fh	₹ .04	Setting is possible when User has been selected as the MatrixType setting.
			9511	+31	selected as the Matrix Type setting.
			In the c	ase of the Al	 K-UB300
			01h	-127	
			₹	₹	
			80h	0	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \.400	
			FEh	+126	
0.1	Response	OSD:86:[<i>Data</i>]			
Color correction R GAIN/	Request Response	QSD:86 OSD:86:[<i>Data</i>]	None In the c	ase of the A\	
SATURATION	Veshouse	03D.00.[Dala]	01h	-127	W-IIL 120
query command			\ \{\}	121	
, ,			80h	o o	
			₹	₹	
			FFh	+127	
					W-HE130/AW-HR140 /AW-UE150
			41h	-6 3	
) 20h	}	
			80h ≀	0	
			BFh	+63	
			5		
			In the c	ase of the Al	l W-HE40/AW-UE70/AW-HE42
			in the c	ase or the Al	VV-11E4U/AVV-UE/U/AVV-NE4Z

Command name	Category	Command	Data value	Setting	Remarks
			61h	- 31	
			} 20b	}	
			80h ≀	0	
			9Fh	+31	
				ase of the Al	K-UB300
			01h ≀	_127 	
			80h	0	
			₹	₹	
			FEh	+126	
	0 1 1	000 07 (0.4.1	1 (1	C (1 A)	A/ 1/5400/A// 1/D000
Color correction R PHASE	Control	OSD:87:[<i>Data</i>]	01h	ase of the A\ -127	W-HE120/AK-UB300 • Settings cannot be changed if Normal,
control command			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
			In the c	ase of the	
					140/AW-HE40/AW-UE70/AW-HE42
			/AW-UE		
			41h	-63	Settings cannot be changed if Normal, EDIT or NTSC has been salested as the
			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			₹	ĭ	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:87:[Data]			
Color correction R PHASE	Request Response	QSD:87 OSD:87:[<i>Data</i>]	None In the c	ease of the Al	 W-HE120/AK-UB300
query command	rtesponse	OOD.07.[Data]	01h	-127	W-11L 120/AIX-0B000
			₹	₹	
			80h	0	
			} FFh	∤ +127	
			In the c	ase of the	
					140/AW-HE40/AW-UE70/AW-HE42
			/AW-UE	E150 │_63	
			4 III }	- 63	
			80h	0	
			\ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			BFh	+63	
Color correction	Control	OSD:9C:[Data]	In the c	ase of the A	 W-HE130/AW-HR140 /AW-UE150
R_R_YI GAIN/)	41h	-63	Settings cannot be changed if Normal,
SATURATION			₹	. ₹	EBU or NTSC has been selected as the
control command			80h }	0	MatrixType setting. • Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
				ase of the A	W-HE40/AW-UE70/AW-HE42
			61h	-31	Settings cannot be changed if Normal, EDIT or NITCO has been expected as the
			≀ 80h	} }	EBU or NTSC has been selected as the MatrixType setting.
	<u> </u>		JUII	<u> </u>	j mauninge selling.

Command name	Category	Command	Data value	Setting	Remarks			
			₹	0	Setting is possible when User has been			
			9Fh	₹	selected as the MatrixType setting.			
	Response	OSD:9C:[Data]		+31				
Color correction	Request	QSD:9C	None					
R_R_YI GAIN/	Response	OSD:9C:[Data]			W-HE130/AW-HR140 /AW-UE150			
SATURATION			41h	-6 3				
query command) }	}				
			80h }	0				
			BFh	+63				
					W-HE40/AW-UE70/AW-HE42			
			61h	-31				
			₹	₹				
			80h	0				
			}	₹				
0.1	0 1 1	000 00 10 1	9Fh	+31				
Color correction R R YI PHASE	Control	OSD:9D:[Data]		ase of the	140/AW-HE40/AW-UE70/AW-HE42			
control command			/AW-UE		140/AVV-HE40/AVV-UE70/AVV-HE42			
control command			41h	-63	Settings cannot be changed if Normal,			
				₹	EBU or NTSC has been selected as the			
			80h	0	MatrixType setting.			
			₹	₹	Setting is possible when User has been			
			BFh	+63	selected as the MatrixType setting.			
	Response	OSD:9D:[Data]	.					
Color correction	Request	QSD:9D	None					
R_R_YI PHASE query command	Response	OSD:9D:[Data]	In the case of the AW-HE130/AW-HR140/AW-HE40/AW-UE70/AW-HE42 /AW-UE150					
query command								
			41h	_63				
				₹				
			80h	0				
			₹	₹				
			BFh	+63				
Color correction	Control	OSD:88:[<i>Data</i>]		ase of the A				
R_YI GAIN/			01h		Settings cannot be changed if Normal,			
SATURATION			\ \{\}	. ≀	EBU or NTSC has been selected as the			
control command			80h }	0	MatrixType setting. • Setting is possible when User has been			
			FFh	+127	selected as the MatrixType setting.			
			' ' ''	121	selected as the Mathx Type setting.			
			In the c	ase of the Al	l W-HE130/AW-HR140 /AW-UE150			
			41h	-63	Settings cannot be changed if Normal,			
			` }'''	₹	EBU or NTSC has been selected as the			
			80h	0	MatrixType setting.			
			₹	₹	Setting is possible when User has been			
			BFh	+63	selected as the MatrixType setting.			
				ase of the Al	K-UB300			
			01h	-127				
			\ \{\}	. ≀				
			80h	0				
	Response	OSD:88:[<i>Data</i>]	_	} +126				
Color correction	Request	QSD:88	None	1120				
				L	1			
R_YI GAIN/	Response	OSD:88:[Data]	In the c	ase of the Al	W-HE120			

Command name	Category	Command	Data	Setting	Remarks
	outogory ,	Communa	value	\ \	Tomarko
query command			80h	0	
			₹	₹	
			FFh	+127	M 115420/AW 115440 /AW 115450
			41h	-63	N-HE130/AW-HR140 /AW-UE150
			₹	₹	
			80h	0	
			} BFh	∤ +63	
				ase of the Al	L K-UB300
			01h	-127	
			≀ 80h	0	
			\ \ \		
			FEh	+126	
Color correction R YI PHASE	Control	OSD:89:[<i>Data</i>]	In the c	ase of the A\ -127	N-HE120/AK-UB300 • Settings cannot be changed if Normal,
control command			10111	121	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			} FFh	∤ +127	Setting is possible when User has been selected as the Matrix Type setting
					selected as the MatrixType setting. N-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
) }	}	EBU or NTSC has been selected as the
			80h ≀	0	MatrixType setting. • Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:89:[Data]			**Only supported by the AW-HE120/
Color correction	Request	QSD:89	None		AW-HE130.
R_YI PHASE	Response	OSD:89:[<i>Data</i>]		ase of the A	W-HE120/AK-UB300
query command			01h	-127	
			≀ 80h	0	
			₹	ĭ	
			FFh	+127	
			In the c	ase of the AV	N-HE130/AW-HR140 /AW-UE150
			₹	-03	
			80h	0	
			} BFh	∤ +63	
Color correction	Control	OSD:9E:[Data]			N-HE130/AW-HR140 /AW-UE150
R_YI_YI GAIN/			41h	-63	Settings cannot be changed if Normal,
SATURATION control command			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
Control Communa			₹	ĭ≀	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
			In the c	ase of the A\ -31	N-HE40/AW-UE70/AW-HE42◆ Settings cannot be changed if Normal,
			}	- 31 }	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
	Response	OSD:9E:[Data]	} 9Fh	} +31	Setting is possible when User has been
		,,,_alai	i aci	LTOI	selected as the MatrixType setting.
Color correction	Request	QSD:9E	None		colocica do tilo MatilATypo cotting.

SATURATION query command	if Normal, ected as the er has been
Soh 0	if Normal, ected as the
	if Normal, ected as the er has been
BFh	if Normal, ected as the er has been
In the case of the AW-HE40/AW-UE70/AW-HE42 61h	if Normal, ected as the er has been
Color correction Control OSD:9F:[Data] In the case of the AW-HE130/AW-HE40/AW-UE70/AW-HE Control command C	if Normal, ected as the er has been
Color correction Control OSD:9F:[Data] In the case of the AW-HE130/AW-HE40/AW-UE70/AW-HE Control command Alpha	if Normal, ected as the er has been
Substitute	if Normal, ected as the
Color correction R_YI_YI PHASE control command Control command Control Control Control Control Control Control Control command Control command Control Control Control Control Control Control Command Control Co	if Normal, ected as the
Color correction R_YI_YI PHASE control command Control c	if Normal, ected as the
Color correction R_YI_YI PHASE control command Control command Control Control Command Control Control Command Control Control Control Control Control Control Command Control Cont	if Normal, ected as the
R_YI_YI PHASE control command AW-HE130/AW-HR140/AW-HE40/AW-UE70/AW-HE /AW-UE150 41h	if Normal, ected as the
Control command /AW-UE150 41h -63 • Settings cannot be changed EBU or NTSC has been sele 80h • EBU or NTSC has been sele 80h • Setting is possible when Use 80h • Setting	if Normal, ected as the
41h -63 • Settings cannot be changed EBU or NTSC has been sele BU or NTSC has been sele BU or NTSC has been sele MatrixType setting. 80h 0 MatrixType setting. • Setting is possible when Use selected as the MatrixType selected as the MatrixT	ected as the er has been
Color correction R_YI PHASE Response OSD:9F:[Data] In the case of the AW-HE130/AW-HR140/AW-HE40	ected as the er has been
Soh 0 MatrixType setting.	er has been
Response OSD:9F:[Data] None Color correction Response OSD:9F:[Data] R_YI PHASE Response OSD:9F:[Data] In the case of the AW-HE130/AW-HR140/AW-HE40	
Response OSD:9F:[Data] Color correction R_YI PHASE Response OSD:9F:[Data] In the case of the AW-HE130/AW-HR140/AW-HE40	
Response OSD:9F:[Data] Color correction Request QSD:9F R_YI PHASE Response OSD:9F:[Data] In the case of the AW-HE130/AW-HR140/AW-HE40	oung.
R_YI PHASE Response OSD:9F:[Data] In the case of the AW-HE130/AW-HR140/AW-HE40	· ·
	I
query command AW-UE70/AW-HE42 /AW-UE150	
41h -63	
80h 0	
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
Color correction Control OSD:8A:[Data] In the case of the AW-HE120	
	if Narmal
YI GAIN/ SATURATION O1h -127 • Settings cannot be changed EBU or NTSC has been sele	
control command 80h 0 MatrixType setting.	cled as the
total command	r has heen
FFh +127 selected as the MatrixType s	
In the case of the AW-HE130/AW-HR140 /AW-UE15	
41h -63 • Settings cannot be changed	
₹ EBU or NTSC has been sele	
80h 0 MatrixType setting.	
₹ Setting is possible when Use	r has been
BFh +63 selected as the MatrixType s	etting.
In the case of the AW-HE40/AW-UE70/AW-HE42	
61h -31 • Settings cannot be changed	
	cted as the
80h 0 MatrixType setting.	
9Fh +31 selected as the MatrixType s	etting.
In the case of the AK-UB300	
01h -127	
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
FEb +126	
Response OSD:8A:[Data]	
Color correction Request QSD:8A None VI GAIN/	
YI GAIN/ Response OSD:8A:[Data] In the case of the AW-HE120 SATURATION 01h -127	
query command \\ \tag{\chi}	
80h 0	
FFh +127	

Command name	Category	Command	Data value	Setting	Remarks
			In the c	ase of the A	W-HE130/AW-HR140 /AW-UE150
			41h	-63	
			?	. ≀	
			80h	0	
			∤ BFh	∤ +63	
					l W-HE40/AW-UE70/AW-HE42
			61h	-31	VV-NE4U/AVV-UE7U/AVV-NE42
			\ \	-31	
			80h	0	
			₹	≀	
			9Fh	+31	
			In the c	ase of the Al	K-UB300
			01h	-127	
			₹	₹	
			80h	0	
			₹	₹	
			FEh	+126	
Color correction	Control	OSD:8B:[Data]	In the c	ase of the A	W-HE120/AK-UB300
YI PHASE			01h	-127	Settings cannot be changed if Normal,
control command			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
				\ \	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					W-HE130/AW-HR140/AW-HE40/ 2 /AW-UE150
			41h	_63	Settings cannot be changed if Normal,
			4 111	-03	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹		Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:8B:[Data]			**Only supported by the AW-HE120/
					AW-HE130.
Color correction	Request	QSD:8B	None		
YI PHASE	Response	OSD:8B:[Data]			W-HE120/AK-UB300
query command			01h	–127	
			≀ 80h	0	
			}		
			FFh	+127	
				<u> </u>	W-HE130/AW-HR140/AW-HE40/
					2 /AW-UE150
			41h	-63	
			₹	₹	
			80h	0	
			₹	₹	
			BFh	+63	
Color correction	Control	OSD:8C:[Data]		ase of the A	
YI_G GAIN/			01h	-127	Settings cannot be changed if Normal,
SATURATION control command			} 20b	}	EBU or NTSC has been selected as the
control command			80h ≀	0	MatrixType setting. • Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					W-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			1	_03	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
	l .	I	5511		matrixtypo ootting.

Command name	Category	Command	Data value	Setting	Remarks
			} BFh	≀ +63	Setting is possible when User has been selected as the MatrixType setting.
				ase of the Al	
			01h	-127	
			}	₹	
			80h	o`	
			₹	}	
	Response	OSD:8C:[Data]	FEh	+126	
Color correction	Request	QSD:8C	None		
YI G GAIN/	Response	OSD:8C:[Data]		ase of the AV	W-HE120
SATURATION	. 100,000	002.00.[24.4]	01h	_127	
query command				₹	
			80h	0	
			₹	₹	
			FFh	+127	
			In the c	ase of the AV	N-HE130/AW-HR140 /AW-UE150
			41h	-63	
			₹	₹ .	
			80h	0	
			\ \ \ \	}	
			BFh	+63	(117000
				ase of the Al	K-UB300 I
			01h	-127	
			≀ 80h	0	
			\ \{\}		
			FEh	+126	
Color correction	Control	OSD:8D:[Data]	1		N-HE120/AK-UB300
YI G PHASE			01h	-127	Settings cannot be changed if Normal,
control command			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					W-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			\ \{\	}	EBU or NTSC has been selected as the
			80h ≀	0	MatrixType setting. • Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:8D:[Data]		103	**Sonly supported by the AW-HE120/
	rtesponse	OSD.0D.[Data]			AW-HE130.
Color correction	Request	QSD:8D	None		7
YI_G PHASE	Response	OSD:8D:[Data]		ase of the A\	W-HE120/AK-UB300
query command	·		01h	-127	
			₹	₹	
			80h	0	
			\ \	₹ .	
			FFh	+127	
					N-HE130/AW-HR140 /AW-UE150
			41h	-63	
			≀ 80h	0	
			80n	\ \{\}	
			BFh	+63	
Color correction	Control	OSD:8E:[Data]		ase of the Al	W-HE120
G GAIN/		2[- 2-2]	01h	_127	Settings cannot be changed if Normal,
SATURATION			₹	₹	EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.

Command name	Category	Command	Data value	Setting	Remarks
			In the c	ase of the AV	W-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
					W-HE40/AW-UE70/AW-HE42
			61h ≀	_31 ``	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			}	}	Setting is possible when User has been
			9Fh	+31	selected as the MatrixType setting.
				ase of the Al	
					T
			01h	-127	
) }	}	
			80h ≀	0	
-	D	000.05.(0-4-1	FEh	+126	
	Response	OSD:8E:[Data]	FEII	+120	
Color correction	Request	QSD:8E	None		
G GAIN/	Response	OSD:8E:[Data]		ase of the AV	W-HE120
SATURATION			01h	–127	
query command))	}	
			80h ≀	0	
			(FFh	+127	
					l W-HE130/AW-HR140 /AW-UE150
			41h	-63	
			1 7 111	-03	
			80h	0	
			₹	ĭ≀	
			BFh	+63	
			In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
			61h	-31	
			₹	₹	
			80h	0	
			₹	₹	
			9Fh	+31	
				ase of the Al	K-UB300
			01h	-127	
			} 20h	}	
			80h	0	
			≀ FEh		
			FEII	+120	
Oalan d	0 1 1	000.05.15.4.3	lo ti		M HE400/AK HB000
Color correction G PHASE	Control	OSD:8F:[Data]			N-HE120/AK-UB300
control command			01h }	–127 	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
Control Continuation			80h	0	MatrixType setting.
			}	° ₂	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
Į l					as as maantifo oothing.
			In the c	ase of the Al	N-HE130/AW-HR140/AW-HE40/
					N-HE130/AW-HR140/AW-HE40/ 2 /AW-UE150
			AW-UE	70/AW-HE42	2 /AW-UE150

Command name	Category	Command	Data value	Setting	Remarks
			}	}	Setting is possible when User has been
_	Response	OSD:8F:[Data]	BFh	+63	selected as the MatrixType setting.
Color correction	Request	QSD:8F	None		
G PHASE	Response	OSD:8F:[Data]		ase of the Al	L N-HE120/AK-UB300
query command	rtesponse	OSD.01 .[Data]	01h	-127	WHILE IZU/AIC-OBSOO
			₹	₹	
			80h	0	
			} FFh	∤ +127	
			' ' ''	1121	
			In the c	l ase of the A\	L W-HE130/AW-HR140/AW-HE40/
					2 /AW-UE150
			41h	-63	
			≀ 80h	0	
			₹	ĭ	
			BFh	+63	
Color correction	Control	OSD:90:[Data]		ase of the Al	
G_Cy GAIN/ SATURATION			01h	_127 }	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command			≀ 80h	0	MatrixType setting.
control communa			₹	ĭ	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					N-HE130/AW-HR140 /AW-UE150
			41h }	–63 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
					W-HE40/AW-UE70/AW-HE42
			61h ≀	_31 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			9Fh	+31	selected as the MatrixType setting.
			1 11	C (1 A 1	(LID000
			01h	ase of the Al	K-UB300
			1 3111	127	
			80h	0	
				}	
Color correction	Response Request	OSD:90:[<i>Data</i>] QSD:90	FEh None	+126	
G_Cy GAIN/	Response	OSD:90:[Data]		l ase of the A\	I W-HE120
SATURATION			01h	-127	
query command			}	₹	
			80h	0	
			≀ FFh	∤ +127	
			1	. 121	
			In the c	ase of the A\	W-HE130/AW-HR140 /AW-UE150

Command name	Category	Command	Data value	Setting	Remarks
			≀ 80h	0	
			₹	`≀	
			BFh	+63	
			In the c	ase of the A	l W-HE40/AW-UE70/AW-HE42
			61h	-31	
			≀ 80h	0	
			₹	₹	
			9Fh	+31	
			In the c	ase of the Al	K-UB300
			01h	-127 >	
			≀ 80h	0	
			₹.	}	
			FEh	+126	
Color correction	Control	OSD:91:[<i>Data</i>]			N-HE120/AK-UB300
G_Cy PHASE control command			01h ≀	_127 }	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting. **Only supported by the AW-HE120.
					N-HE130/AW-HR140/AW-HE40/ 2 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			?	₹	Setting is possible when User has been
	Response	OSD:91:[<i>Data</i>]	BFh	+63	selected as the MatrixType setting.
Color correction	Request	QSD:91			
G_Cy PHASE	Response	OSD:91:[<i>Data</i>]	In the c	ase of the A	N-HE120/AK-UB300
query command			01h	-127	
			≀ 80h	0	
			₹	₹	
			FFh	+127	
			In the c		W-HE130/AW-HE40/AW-UE70/AW-HE42
			41h	-63	
			≀ 80h	0	
			₹	₹	
			BFh	+63	
Color correction	Control	OSD:92:[<i>Data</i>]	In the c	ase of the A	
Cy GAIN/ SATURATION			01h }	-127	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.

Command name	Category	Command	Data value	Setting	Remarks
			In the c	ase of the A	W-HE130/AW-HR140/AW-UE150
			41h	-63	 Settings cannot be changed if Normal,
			\	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			≀	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
			In the c	ase of the A	N-HE40/AW-UE70/AW-HE42
			61h	–31	Settings cannot be changed if Normal,
			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			9Fh	+31	selected as the MatrixType setting.
			In the c	ase of the Al	 K-UB300
			01h	-127	
			₹	} }	
			80h	0	
			\ \{\}	ì	
	Response	OSD:92:[Data]	FEh	+126	
	-				
Color correction	Request	QSD:92	None		
Cy GAIN/	Response	OSD:92:[Data]		ase of the A	N-HE120
SATURATION			01h	-127	
query command			\ \	₹	
			80h	0	
				} }	
			FFh	+127	
					N-HE130/AW-HR140 /AW-UE150
			41h	-63	
			≀ 80h	}	
			80n	0	
			BFh	+63	
					N-HE40/AW-UE70/AW-HE42
			61h	–31	
			₹	₹	
			80h	0	
			₹	₹	
			9Fh	+31	
				ase of the Al	K-UB300
			01h	-127	
			}	≀	
			80h	0	
			≀ FEh		
			1 [11	1 120	
Color correction	Control	OSD:93:[Data]	In the c	ase of the A	W-HE120/AK-UB300
Cy PHASE			01h	-127	Settings cannot be changed if Normal,
control command			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
				ase of the	
					140/AW-HE40/AW-UE70/AW-HE42
			/AW-UE		Sottings cannot be changed if Normal
			41h }	– 63 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
	<u>L</u>		(<u> </u>	□ □□□ OF INTOC Has been selected as the

Command name	Category	Command	Data value	Setting	Remarks
			80h ≀ BFh	0 } +63	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.
	Response	OSD:93:[<i>Data</i>]			
Color correction	Request	QSD:93	None	5.41	A/ 1/5 400/A/4 1/5000
Cy PHASE query command	Response	OSD:93:[<i>Data</i>]	01h	-127	W-HE120/AK-UB300
query communa			80h	0 1 +127	
			In the c	ase of the A	W-HE130/AW-HR140/AW-HE40/
					2 /AW-UE150
			41h	-63	
			≀ 80h	0	
			₹	ĭ	
			BFh	+63	
Color correction	Control	OSD:94:[Data]	In the c	ase of the A	W-HE120
Cy_B GAIN/			01h	-127	Settings cannot be changed if Normal,
SATURATION control command) }	}	EBU or NTSC has been selected as the
Control Command			80h }	0	MatrixType setting. • Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
			In the c	ase of the A	W-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			≀ 80h	0	EBU or NTSC has been selected as the
			\ \{\		MatrixType setting. • Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
				ase of the Al	K-UB300
			01h	-127	
			≀ 80h	0	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	Response	OSD:94:[Data]	FEh	+126	
Color correction	Request	QSD:94	None		
Cy_B GAIN/	Response	OSD:94:[Data]		ase of the A	W-HE120
SATURATION query command			01h }	_127 ≀	
query command			80h	0	
			₹	ì	
			FFh	+127	
			In the c	l ase of the A\	L W-HE130/AW-HR140 /AW-UE150
			41h	-63	
			₹.	. ≀	
			80h	0	
			} BFh	≀ +63	
				ase of the Al	K-UB300
			01h	-127	

Command name	Category	Command	Data value	Setting	Remarks
			}	}	
			80h ≀	0	
			FEh	+126	
Color correction	Control	OSD:95:[<i>Data</i>]		1	W-HE120/AK-UB300
Cy_B PHASE control command			01h ≀	–127 	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting. **Only supported by the AW-HE120.
					Mornly supported by the AVV-112 120.
			In the c	ase of the A\	N-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			₹		Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:95:[<i>Data</i>]			**Only supported by the AW-HE120/ AW-HE130.
					AVVIIL 100.
Color correction	Request	QSD:95	None		
Cy_B PHASE	Response	OSD:95:[Data]			W-HE120/AK-UB300
query command			01h }	-127)	
			80h	0	
			₹	₹	
			FFh	+127	
			In the c	one of the Al	 N-HE130/AW-HR140 /AW-UE150
			41h	-63	
			₹	₹	
			80h	0	
			≀ BFh	} +63	
Color correction	Control	OSD:96:[Data]	In the c	ase of the A	
B GAIN/			01h	-127	Settings cannot be changed if Normal, EDIT or NITCO has been salested as the
SATURATION control command			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
			41h	-63	W-HE130/AW-HR140 /AW-UE150 • Settings cannot be changed if Normal,
			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			} I BFh	∤ +63	Setting is possible when User has been selected as the MatrixType setting.
			In the c		W-HE40/AW-UE70/AW-HE42
			61h	-31	Settings cannot be changed if Normal, ERLL or NITSC has been collected as the
			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			₹	₹	Setting is possible when User has been
			9Fh	+31	selected as the MatrixType setting.
			In the c	ase of the Al	K-UB300

Command name	Category	Command	Data	Setting	Remarks
	catogory	- Communa	value 01h	-127	TO THE THE
			10111	121	
			80h	0	
			₹	₹	
	Response	OSD:96:[<i>Data</i>]	FEh	+126	
0.1		000.00			
Color correction B GAIN/	Request Response	QSD:96 OSD:96:[<i>Data</i>]	None	ase of the A\	N HE120
SATURATION	Response	03D.90.[Data]	01h	-127	
query command			₹	₹	
			80h	0	
			≀ FFh	≀ +127	
					N-HE130/AW-HR140 /AW-UE150
			41h	<u>-63</u>	
			₹	₹	
			80h	0	
			} BFh	+63	
					W-HE40/AW-UE70/AW-HE42
			61h	-31	
			\ \{\	₹	
			80h }	0	
			9Fh	+31	
			In the c	ase of the Al	K-UB300
			01h	-127	
			\ \{\}	}	
			80h ≀	0	
			FEh	+126	
Color correction	Control	OSD:97:[Data]			W-HE120/AK-UB300
B PHASE			01h	-127	Settings cannot be changed if Normal,
control command			≀ 80h	0	EBU or NTSC has been selected as the MatrixType setting.
			₹	ĭ	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					N-HE130/AW-HR140/AW-HE40/
			41h	_63	2 /AW-UE150 • Settings cannot be changed if Normal,
			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			\ \ \ \		Setting is possible when User has been
	Response	OSD:97:[<i>Data</i>]	BFh	+63	selected as the MatrixType setting.
Color correction	Request	QSD:97	None		
B PHASE	Response	OSD:97:[Data]		ase of the A\	I W-HE120/AK-UB300
query command	,	. [=]	01h	-127	
			?	}	
			80h }	0	
			FFh	+127	
			In the c	ase of the A	N-HE130/AW-HR140/AW-HE40/
			AW-UE	70/AW-HE42	2 /AW-UE150

Command name	Category	Command	Data value	Setting	Remarks
			41h	-63	
			₹	₹	
			80h	0	
			\ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			BFh	+63	
Color correction	Control	OSD:80:[Data]	In the c	ase of the A	W-HE120
B_Mg GAIN/			01h	-127	Settings cannot be changed if Normal,
SATURATION control command			≀ 80h	}	EBU or NTSC has been selected as the
Control Command			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0	MatrixType setting. • Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					W-HE130/AW-HR140 /AW-UE150
			41h ≀	_63 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
			In the a	ase of the Al	V LID200
			01h	-127	N-UB300
			₹	₹	
			80h	0	
			≀ - FEh	} +126	
	Response	OSD:80:[Data]		+120	
Color correction B_Mg GAIN/	Request	QSD:80 OSD:80:[<i>Data</i>]	None	ase of the A	N HE120
SATURATION	Response	USD.60.[Data]	01h	-127	
query command			₹	₹	
			80h	0	
			≀ FFh	≀ +127	
					W-HE130/AW-HR140 /AW-UE150
			41h	-63	
			\ \{\}	}	
			80h	0	
			BFh	+63	
				ase of the Al	K-UB300
			01h	-127	
			≀ 80h	0	
			₹	`≀	
			FEh	+126	
Color correction	Control	OSD:81:[<i>Data</i>]		1	N-HE120/AK-UB300
B_Mg PHASE control command			01h ≀	–127 	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	}	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting. XOnly supported by the AW-HE120.
			In the c	ase of the A	W-HE130/AW-HR140 /AW-UE150
			41h	-63	Settings cannot be changed if Normal,
			}	. ₹	EBU or NTSC has been selected as the
			80h ≀	0	MatrixType setting. • Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
		l		1	1 25.55.64 40 the matrix type county.

Command name	Category	Command	Data value	Setting	Remarks		
	Response	OSD:81:[<i>Data</i>]					
Color correction	Request	QSD:81	None		AVV-11E 150.		
B_Mg PHASE	Response	OSD:81:[Data]		ase of the A	W-HE120/AK-UB300		
query command	. 100,000	002.0[20.0]	01h -127				
			}	₹			
			80h	0			
			₹	₹			
			FFh	+127	A LIE 400 (A) A LIE 400 (A) A LIE 450		
			In the c	ase of the AV	W-HE130/AW-HR140 /AW-UE150		
			14111	- 03 }			
			80h	0			
			₹	l ĭ≀			
			BFh	+63			
Color correction	Control	OSD:82:[Data]	In the c	ase of the A	W-HE120		
Mg GAIN/			01h	-127	Settings cannot be changed if Normal,		
SATURATION			₹	. ₹	EBU or NTSC has been selected as the		
control command			80h	0	MatrixType setting.		
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \.407	Setting is possible when User has been Alexandra the Matrix Type a attingtion.		
			FFh In the c	+127	selected as the MatrixType setting. W-HE130/AW-HR140 /AW-UE150		
			41h	-63	Settings cannot be changed if Normal,		
			14111	_03 }	EBU or NTSC has been selected as the		
			80h	0	MatrixType setting.		
			₹		Setting is possible when User has been		
			BFh	+63	selected as the MatrixType setting.		
					W-HE40/AW-UE70/AW-HE42		
			61h	- 31	Settings cannot be changed if Normal,		
			}	. ₹	EBU or NTSC has been selected as the		
			80h	0	MatrixType setting.		
			l ≀ 9Fh		Setting is possible when User has been		
				ase of the A	selected as the MatrixType setting.		
			01h	–127	K-0B300		
			1	127			
			80h	0			
			₹				
	Response	OSD:82:[Data]	FEh	+126			
Color correction	Request	QSD:82	None				
Mg GAIN/	Response	OSD:82:[Data]		ase of the A	W-HE120		
SATURATION	•		01h	-127			
query command			₹	₹			
			80h	0			
			₹	₹			
			FFh	+127			
					W-HE130/AW-HR140 /AW-UE150		
			41h ≀	_63 ≀			
			80h	0			
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
			BFh	+63			
					W-HE40/AW-UE70/AW-HE42		
			61h	-31			
			1	₹			
			80h	0			
			₹	₹			
			9Fh	+31			

In the case of the AK-UB300 01h	
80h 0 ₹	
1 1	
Color correction Control OSD:83:[Data] In the case of the AW-HE120/A	K-UB300
	s cannot be changed if Normal,
	NTSC has been selected as the
	ype setting.
	is possible when User has been
	d as the MatrixType setting.
In the case of the AW-HE130/A AW-UE70/AW-HE42 /AW-UE15	
	s cannot be changed if Normal,
	NTSC has been selected as the
80h 0 MatrixTy	ype setting.
	is possible when User has been
	d as the MatrixType setting.
Response OSD:83:[<i>Data</i>]	upported by the AW-HE120/
Color correction Request QSD:83 None	50.
Mg PHASE Response OSD:83:[Data] In the case of the AW-HE120/A	K-UB300
query command 01h -127	05000
1 1	
80h 0	
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
FFh +127	NA LIE 40/ ANA LIE 70/ANA LIE 40
In the case of the AW-HE130/AV/AW-UE150	WV-HE4U/ AVV-UE/U/AVV-HE42
41h -63	
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
80h 0	
Color correction Control OSD:84:[Data] In the case of the AW-HE120	
	s cannot be changed if Normal,
	NTSC has been selected as the
	ype setting.
	is possible when User has been
	d as the MatrixType setting.
In the case of the AW-HE130/A	
	s cannot be changed if Normal, NTSC has been selected as the
	ype setting.
	is possible when User has been
	d as the MatrixType setting.
In the case of the AW-HE40/AW	
	s cannot be changed if Normal,
	NTSC has been selected as the
	ype setting.
	is possible when User has been
9Fh +31 selected In the case of the AK-UB300	d as the MatrixType setting.
o1h -127	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
80h 0	

Command name	Category	Command	Data value	Setting	Remarks
Color correction	Request	QSD:84	None		
Mg_R GAIN/	Response	OSD:84:[Data]		ase of the A	W-HE120
SATURATION			01h	-127	
query command			\ \{\}	}	
			80h	0	
			} FFh	+127	
					L W-HE130/AW-HR140 /AW-UE150
			41h	_63	
				₹	
			80h	0	
			₹	₹	
			BFh	+63	
			In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
			61h	– 31	
			₹	₹	
			80h	0	
))	₹	
			9Fh	+31	L LIDOO
				ase of the Al	K-UB300 T
			01h ≀	_127 }	
			80h	0	
			}		
			FEh	+126	
Color correction	Control	OSD:85:[<i>Data</i>]	In the c	ase of the A	W-HE120/AK-UB300
Mg_R PHASE	Control	000.00.[24.4]	01h	-127	Settings cannot be changed if Normal,
control command				₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			FFh	+127	selected as the MatrixType setting.
					W-HE130/AW-HR140/AW-HE40/
					2 /AW-UE150
			41h	-6 3	Settings cannot be changed if Normal,
			\ \ \	}	EBU or NTSC has been selected as the
			80h ≀	0	MatrixType setting. • Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:85:[<i>Data</i>]	5' ''	1.00	Science as the Matrix Type setting.
Color correction	Request	QSD:85	None		
Mg_R PHASE	Response	OSD:85:[<i>Data</i>]	1	ase of the A	W-HE120/AK-UB300
query command	'	[]	01h	_127	
-			₹	₹	
			80h	0	
			₹	₹	
			FFh	+127	
					W-HE130/AW-HR140/AW-HE40/
					2 /AW-UE150
			41h }	-63	
			80h	0	
			}		
			BFh	+63	
Color correction	Control	OSD:9A:[Data]	In the c	ase of the Al	L W-HE130/AW-HR140 /AW-UE150
Mg_R_R GAIN/	Control	JOD.OFT.[Data]	41h	-63	Settings cannot be changed if Normal,
9 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>	l .		- 55	J Sounge samot be enanged if Normal,

Command name	Category	Command	Data value	Setting	Remarks
SATURATION			}	}	EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
1			₹	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:9A:[Data]			※Only supported by the AW-HE130.
Color correction	Request	QSD:9A	None		
Mg_R_R PHASE	Response	OSD:9A:[Data]	In the c	ase of the A	W-HE130/AW-HR140 /AW-UE150
control command			41h	-63	
			₹	₹	
			80h	0	
			\	₹ .	
			BFh	+63	
	0 1 1	000 00 10 (1		5.41 . 41	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Color correction	Control	OSD:9B:[Data]		1	W-HE130/AW-HR140 /AW-UE150
Mg_R_R PHASE			41h	- 63	Settings cannot be changed if Normal,
control command			₹	}	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			\ \	}	Setting is possible when User has been
	_	000 00 10 11	BFh	+63	selected as the MatrixType setting.
	Response	OSD:9B:[Data]	.		**Only supported by the AW-HE130.
Color correction	Request	QSD:9B	None		
Mg_R_R PHASE	Response	OSD:9B:[Data]			W-HE130/AW-HR140 /AW-UE150
query command			41h	- 63	
			₹	\	
			80h	0	
			}	}	
			BFh	+63	
	0 / 1	000 44 (0.4)	1	5.41 . 41	MANUE 40/ANA DE 70/ANA DE 40
Color correction	Control	OSD:AA:[Data]		1	W-HE40/AW-UE70/AW-HE42
Cy_Cy_B GAIN/			61h	- 31	Settings cannot be changed if Normal,
SATURATION			}	. ₹	EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			} 9Fh	₹	• Setting is possible when User has been
	-	000 44 (0.4)	9511	+31	selected as the MatrixType setting.
	Response	OSD:AA:[Data]			
Color correction	Request	QSD:AA	None	5.41 . 43	M 115 40/00/ 11570/00/ 115 40
Cy_Cy_B GAIN/	Response	OSD:AA:[Data]		1	W-HE40/AW-UE70/AW-HE42
SATURATION			61h	- 31	
query command			}	}	
			80h	0	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}	
0-1	Control	OCD: AD:[Dete]	9Fh	+31	M HE40/AM HE70/AM HE42
Color correction	Control	OSD:AB:[Data]		1	W-HE40/AW-UE70/AW-HE42
Cy_Cy_B PHASE control command			41h ≀	_63 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
control command			80h	0	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \{\}	MatrixType setting.
			BFh	+63	Setting is possible when User has been appeared as the MatrixType setting.
	Response	OSD:AB:[Data]	1		selected as the MatrixType setting.
Color correction	Request	QSD:AB.[Data]	None		
Cy_Cy_B PHASE	Response	OSD:AB:[Data]		ase of the A	W-HE40/AW-UE70/AW-HE42
query command			41h	-63	
'			₹	₹	
			80h	0	
			₹	₹	
			BFh	+63	
Color correction	Control	OSD:AC:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
Cy_B_B GAIN/			61h	- 31	Settings cannot be changed if Normal,
			≀		EBU or NTSC has been selected as the
· · · ·		•			-

Command name	Category	Command	Data value	Setting	Remarks
SATURATION			80h	}	MatrixType setting.
control command			} }	0	Setting is possible when User has been
control command			9Fh	l ĭ≀	selected as the MatrixType setting.
-	Response	OSD:AC:[Data]		+31	selected as the Matrix Type Setting.
Color correction	Request	QSD:AC.[Data]	None		
-	Response	OSD:AC:[Data]		ase of the A	I W-HE40/AW-UE70/AW-HE42
Cy_B_B GAIN/ SATURATION	Response	OSD.AC.[Data]	61h	-31	
query command			\ \	-31	
query communa			80h	0	
			} }		
			9Fh	+31	
Color correction	Control	OSD:AD:[Data]	In the c		W-HE40/AW-UE70/AW-HE42
Cy_B_B PHASE	00111101	oos., is.[saia]	41h	<u>-63</u>	Settings cannot be changed if Normal,
control command				}	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹		Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
-	Response	OSD:AD:[Data]	-		colociod do the Matrix Type detailig.
Color correction	Request	QSD:AD	None		
Cy B B PHASE	Response	OSD:AD:[Data]		ase of the A	W-HE40/AW-UE70/AW-HE42
query command	rtooponoo	oos., is.[saia]	41h	<u>-63</u>	11110711101111
quory communa			 	≀	
			80h	o o	
			}	} }	
			BFh	+63	
Color correction	Control	OSD:C0:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
B_B_Mg GAIN/			61h	– 31	Settings cannot be changed if Normal,
SATURATION			₹	₹	EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
<u>-</u>			9Fh	+31	selected as the MatrixType setting.
	Response	OSD:C0:[Data]			
Color correction	Request	QSD:C0	None		
B_B_Mg GAIN/	Response	OSD:C0:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
SATURATION			61h	– 31	
query command			₹	₹	
			80h	0	
			}	₹	
			9Fh	+31	
Color correction	Control	OSD:C1:[Data]			W-HE40/AW-UE70/AW-HE42
B B Mg PHASE		I	41h	-63	Settings cannot be changed if Normal,
					EDIT NEOOT 1 1 1 1 11
control command) }	}	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			80h ≀	0	MatrixType setting. • Setting is possible when User has been
	D.	000.0473	80h	0	MatrixType setting.
control command	Response	OSD:C1:[Data]	80h ≀ BFh	0	MatrixType setting. • Setting is possible when User has been
control command Color correction	Request	QSD:C1	80h	0 1 +63	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.
Color correction B_B_Mg PHASE			80h Reference to the second s	0 t+63	MatrixType setting. • Setting is possible when User has been
control command Color correction	Request	QSD:C1	80h Reference to the second s	0	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.
Color correction B_B_Mg PHASE	Request	QSD:C1	80h BFh None In the c 41h \	0	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.
Color correction B_B_Mg PHASE	Request	QSD:C1	80h BFh None In the contact the state of t	0	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.
Color correction B_B_Mg PHASE	Request	QSD:C1	80h BFh None In the co 41h 80h 1	0	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.
Color correction B_B_Mg PHASE query command	Request Response	QSD:C1 OSD:C1:[Data]	80h BFh None In the co 41h 80h BFh	0	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting. W-HE40/AW-UE70/AW-HE42
Color correction B_B_Mg PHASE	Request	QSD:C1	80h BFh None In the co 41h 80h BFh	0	MatrixType setting. • Setting is possible when User has been selected as the MatrixType setting.

Command name	Category	Command	Data value	Setting	Remarks
SATURATION			80h	}	MatrixType setting.
control command			} }	o`	Setting is possible when User has been
			9Fh		selected as the MatrixType setting.
	Response	OSD:C2:[Data]	-	+31	selected as the Mathx Type Setting.
Color correction	Request	QSD:C2:[Data]	None		
_	Response	OSD:C2:[Data]		ase of the A	N-HE40/AW-UE70/AW-HE42
B_Mg_Mg GAIN/ SATURATION	rtesponse	OSD.OZ.[Data]	61h	-31	
query command			 	\	
quory communa			80h	0	
			}	ĭ	
			9Fh	+31	
Color correction	Control	OSD:C3:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
B_Mg_Mg PHASE			41h	-63	Settings cannot be changed if Normal,
control command				₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:C3:[Data]	1		constitut as and manifer, yes coming.
Color correction	Request	QSD:C3	None		
B_Mg_Mg PHASE	Response	OSD:C3:[Data]		ase of the A	W-HE40/AW-UE70/AW-HE42
query command			41h	-63	
quoty communic				}	
			80h	0	
				₹	
			BFh	+63	
Color correction	Control	OSD:C4:[Data]			W-HE40/AW-UE70/AW-HE42
YI_YI_G GAIN/			61h	– 31	Settings cannot be changed if Normal,
SATURATION			. ₹	₹	EBU or NTSC has been selected as the
control command			80h	0	MatrixType setting.
			\	₹	Setting is possible when User has been
			9Fh	+31	selected as the MatrixType setting.
	Response	OSD:C4:[Data]			
Color correction	Request	QSD:C4	None		
YI_YI_G GAIN/	Response	OSD:C4:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
SATURATION			61h	–31	
query command			. ₹	₹	
			80h	0	
			₹	₹	
			9Fh	+31	
Color correction	· · ·	000 05 75 1	1		A/ LIE 40/A/A/ LIE 70/A/A/ LIE 40
	Control	OSD:C5:[Data]			W-HE40/AW-UE70/AW-HE42
YI_YI_G PHASE	Control	OSD:C5:[Data]	41h	-63	Settings cannot be changed if Normal,
	Control	OSD:C5:[Data]	41h ≀	–63 ≀	Settings cannot be changed if Normal, EBU or NTSC has been selected as the
YI_YI_G PHASE	Control	OSD:C5:[Data]	41h	_63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting.
YI_YI_G PHASE	Control	OSD:C5:[Data]	41h	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been
YI_YI_G PHASE			41h	_63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting.
YI_YI_G PHASE control command	Response	OSD:C5:[Data]	41h	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been
YI_YI_G PHASE control command Color correction	Response Request	OSD:C5:[Data] QSD:C5	41h 2 80h BFh None	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting.
YI_YI_G PHASE control command Color correction YI_YI_G PHASE	Response	OSD:C5:[Data]	41h	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been
YI_YI_G PHASE control command Color correction	Response Request	OSD:C5:[Data] QSD:C5	41h 80h BFh None In the c	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting.
YI_YI_G PHASE control command Color correction YI_YI_G PHASE	Response Request	OSD:C5:[Data] QSD:C5	41h 80h BFh None In the c 41h 1	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting.
YI_YI_G PHASE control command Color correction YI_YI_G PHASE	Response Request	OSD:C5:[Data] QSD:C5	41h	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting.
YI_YI_G PHASE control command Color correction YI_YI_G PHASE	Response Request	OSD:C5:[Data] QSD:C5	41h	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting.
YI_YI_G PHASE control command Color correction YI_YI_G PHASE query command	Response Request Response	OSD:C5:[Data] QSD:C5 OSD:C5:[Data]	41h 80h BFh None In the co 41h 80h BFh	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting. W-HE40/AW-UE70/AW-HE42
YI_YI_G PHASE control command Color correction YI_YI_G PHASE	Response Request	OSD:C5:[Data] QSD:C5	41h 80h BFh None In the co 41h 80h BFh	-63	Settings cannot be changed if Normal, EBU or NTSC has been selected as the MatrixType setting. Setting is possible when User has been selected as the MatrixType setting.

Command name	Category	Command	Data value	Setting	Remarks
SATURATION			80h	₹	MatrixType setting.
control command			₹	0	Setting is possible when User has been
			9Fh	₹	selected as the MatrixType setting.
	Response	OSD:C6:[Data]		+31	γ
	. 1356555				
Color correction	Request	QSD:C6	None		
YI_G_G GAIN/	Response	OSD:C6:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
SATURATION			61h	-31	
query command			₹	₹	
			80h	0	
			₹	₹	
			9Fh	+31	
Color correction	Control	OSD:C7:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
YI_G_G PHASE			41h	-63	Settings cannot be changed if Normal,
control command			₹	₹	EBU or NTSC has been selected as the
			80h	0	MatrixType setting.
			₹	₹	Setting is possible when User has been
			BFh	+63	selected as the MatrixType setting.
	Response	OSD:C7:[Data]			
Color correction	Request	QSD:C7	None		
YI_G_G PHASE	Response	OSD:C7:[Data]	In the c	ase of the A	W-HE40/AW-UE70/AW-HE42
query command			41h	-63	
, ,			₹	₹ .	
			80h	0	
			₹	₹ .	
			BFh	+63	
Color correction	Control	OSJ:1C:[Data]	In the c	ase of the A	W-UE150
YI_YI_G GAIN/			41h	-63	
SATURATION	Response	OSJ:1C:[Data]	- ≀	₹	
control command		0000.[20]	80h	0	
			₹	₹	
			BFh	+63	
Color correction	Request	QSJ:1C	None		
YI_YI_G GAIN/	Response	OSJ:1C:[Data]	In the c	ase of the A	W-UE150
SATURATION			41h	-63	
query command			₹	₹	
			80h	0	
			₹	₹	
			BFh	+63	
Color correction	Control	OSJ:1D:[Data]		ase of the A	W-UE150
YI_YI_G PHASE			41h	-63	
control command	Response	OSJ:1D:[Data]	}	}	
			80h	0	
				}	
		00115	BFh	+63	
Color correction	Request	QSJ:1D	None		
YI_YI_G PHASE	Response	OSJ:1D:[Data]		ase of the A	W-UE150
query command			41h	-6 3	
) }	}	
			80h	0	
) DEh	763 }	
Adamtica M. C.	Cambrid	OC 1:45:10-4-1	BFh	+63	WOnly supported by the ANALLEAGO
Adaptive Matrix	Control	OSJ:4F:[Data]	0	OFF	※Only supported by the AW-UE150
control command		0014550 13	1	ON	
A 1 41 - 55 - 5	Response	OSJ:4F:[Data]	1		
Adaptive Matrix	Request	QSJ:4F	None		
query command	Response	OSJ:4F:[Data]	0	OFF	
			1	ON	

```
Example of use)

    Color matrix: User

 [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSE:31:3&res=1
  [Response] AW-HE120 → PC
    200 OK "OSE:31:3"
·Linear matrix R-G: +31
  [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:2F:3E&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:2F:3E"
·Linear matrix R-B: +31
 [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:30:3E&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:30:3E"
·Linear matrix G-R: +31
  [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:31:3E&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:31:3E"
·Linear matrix G-B: +31
  [Control] PC \rightarrow AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:32:3E&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:32:3E"
·Linear matrix B-R: +31
  [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:33:3E&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:33:3E"
Linear matrix B-G: +31
  [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:34:3E&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:34:3E"

    Color correction R GAIN/SATURATION: +127

  [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:86:FF&res=1
  [Response] AW-HE120 → PC
    200 OK "OSD:86:FF"
Color correction R PHASE: +127
  [Control] PC → AW-HE120
    http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:87:FF&res=1
```

[Response] AW-HE120 → PC

200 OK "OSD:87:FF"

Color correction R YI GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:88:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:88:FF"

Color correction R_YI PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:89:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:89:FF"

Color correction YI GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:8A:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:8A:FF"

Color correction YI PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:8B:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:8B:FF"

Color correction YI_G GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:8C:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:8C:FF"

Color correction YI_G PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:8D:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:8D:FF"

Color correction G GAIN/SATURATION: +127

[Control] PC \rightarrow AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:8E:FF&res=1

[Response] AW-HE120 → PC 200 OK "OSD:8E:FF"

Color correction G PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:8F:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:8F:FF"

Color correction G_Cy GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:90:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:90:FF"

Color correction G_Cy PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:91:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:91:FF"

Color correction Cy GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:92:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:92:FF"

Color correction Cy PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:93:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:93:FF"

Color correction Cy_B GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:94:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:94:FF"

Color correction Cy_B PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:95:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:95:FF"

Color correction B GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:96:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:96:FF"

Color correction B PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:97:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:97:FF"

Color correction B_Mg GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:80:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:80:FF"

Color correction B_Mg PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:81:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:81:FF"

Color correction Mg GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:82:FF&res=1

[Response] AW-HE120 \rightarrow PC

200 OK "OSD:82:FF"

Color correction Mg PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:83:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:83:FF"

Color correction Mg_R GAIN/SATURATION: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:84:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:84:FF"

Color correction Mg_R PHASE: +127

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:85:FF&res=1

[Response] AW-HE120 → PC

200 OK "OSD:85:FF"

3.2.7.4. Skin correction setting

These commands control the camera's skin correction and acquire the current setting values.

Table 3.2.7.4. Skin correction setting

Command name	Category	Command	Data	Setting	Remarks
Skin area SW	Control	OSG:B0:[Data]	0	Off	**Only enabled for the AK-UB300.
control command	Response	OSG:B0:[Data]	1	On	
Skin area SW	Request	QSG:B0	None		※Only enabled for the AK-UB300.
query command	Response	OSG:B0:[Data]	0	Off	
			1	On	
Skin area table	Control	OSG:B1:[Data]	0	Α	※Only enabled for the AK-UB300.
control command	Response	OSG:B1:[Data]	1	В	
Skin area table	Request	QSG:B1	None		※Only enabled for the AK-UB300.
query command	Response	OSG:B1:[Data]	0	Α	
			1	В	
Skin area HUE	Control	OSG:B2:[Data]	01h	-127	※Only enabled for the AK-UB300.
control command	Response	OSG:B2:[Data]	≀	₹	
	·		80h	0	
			₹	₹	
			FFh	+127	
Skin area HUE	Request	QSG:B2	None		
query command	Response	OSG:B2:[Data]	01h	-127	
			₹	₹	
			80h	0	
			₹	₹	
			FFh	+127	
Skin area TONE	Control	OSG:B3:[Data]	01h	-127	※Only enabled for the AK-UB300.
control command	Response	OSG:B3:[Data]	₹	₹	
			80h	0	
			₹	₹	
			FEh	+126	
Skin area TONE	Request	QSG:B3	None		
query command	Response	OSG:B3:[Data]	01h	-127	
			₹	₹	
			80h	0	
			₹	}	

Example of use)

·Skin area SW: Off

[Control] PC \rightarrow AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:B0:0&res=1

[Response] AK-UB300 → PC

200 OK "OSG:B0:0"

3.2.8. Chroma level setting

These commands enable the chroma level of the camera to be set and the current settings to be acquired.

Table 3.2.8. Chroma level setting

Command name	Category	Command	Data value	Setting	Remarks
Chroma level SW	Control	OSG:93:[Data]	0	Off	
control command	Response	OSG:93:[Data]	1	On	
Chroma level SW	Request	QSG:93	None		※Only enabled for the AK-UB300.
query command	Response	OSG:93:[Data]	0	Off	
			1	On	
Chroma level control command	Control	OCG:[Data]	In the case of AW-UE70/AV		0/AW-HE60/AW-HE120/AW-HE40/
			00	-3	■ In the case of the AW-HE50/
			01	-2	AW-HE60
			02	-1	Disabled at the FullAuto setting
			03	0	(ER3 is returned).
			04	+1	
	Response	OCG:[Data]	05	+2	
	-	OCG.[Data]	06	+3	
	Control	OSD:B0:[Data]	In the case of	f the AW-HE1	30/AW-HR140
			00h	OFF	
			1Dh	- 99%	
			₹	₹	
			80h	0	
			₹	₹	
			A8h	40%	
				f the AK-UB30	00 I
			00h	-100%	
			1Dh	-99%	
				0	
			\ \	\ \{\}	
	D	000-00-10-4-1	A8h	40%	
	Response	OSD:B0:[Data]		f the AW-UE1	F0
			00h	OFF	
			1Dh	-99%	
			~	~	
			80h	0	
			~	~	
Chroma level	Request	QCG	E3h	99%	 0/AW-HE60/AW-HE120/AW-HE40/
query command	rtoquoot		AW-UE70/AV		0// WV 11E 00// WV 11E 120// WV 11E 40/
' '			None	11212	
	Response	OCG:[Data]	00	-3	
		5 5 5 .[5 4 (4)	01	_3 _2	
			02	_ _1	
			03	0	
			04	+1	
			05	+2	
			06	+3	
	Request	QSD:B0	In the case of	f the AW-HE1	30/AK-UB300/AW-HR140
			None		
	Response	OSD:B0:[Data]	In the case of	f the AW-HE1	30/AW-HR140

Command name	Cotogory	Command	Data value	Catting	Remarks
Command name	Category	Command	Data value	Setting	Remarks
			00h	OFF	
			1Dh	-99%	
			₹	₹	
			80h	0	
			₹	₹	
			A8h	40%	
			In the case o	f the AK-UB30	00
			00h	-100%	
			1Dh	-99%	
			₹	₹	
			80h	0	
			₹	₹	
			A8h	40%	
			In the case o	f the AW-UE1	50
			00h	OFF	
			1Dh	-99%	
			~	~	
			80h	0	
			~	~	
			E3h	99%	
Chroma Phase	Control	OSJ:0B:[Data]	61h	-31	※Only supported by the AW-UE150
control command	Response	OSJ:0B:[Data]	₹	₹	
			80h	0	
			₹	₹	
			9Fh	+31	
Chroma Phase	Request	QSJ:0B	None		※Only supported by the AW-UE150
query command	Response	OSJ:0B:[Data]	61h	-31	
			₹	₹	
			80h	0	
			₹	₹	
			9Fh	+31	

·Chroma level: 0

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OCG:03&res=1

[Response] AW-HE50 → PC

200 OK "OCG:03"

3.2.9. AWB/ABB setting

These commands select the AWB mode of the camera, execute AWB/ABB and enable the current AWB mode status to be acquired.

Table 3.2.9. AWB/ABB setting

		Table 3.2		B/ABB setting	
Command name	Category	Command	Data value	Setting	Remarks
AWB (AWC)	Control	OWS	None		AWB (AWC) is executed.
execution control command	Notification	OWS ER3:OWS ER2:OWS		AWC/AWB OK AWC/AWB NG AWC/AWB NG (Busy)	There is no response which supports this control command. Notification is given by the separate update notification function. For details, refer to "4. Camera information update notification".
AWB execution underway status display On/Off control command	Control	OSA:88:[<i>Data</i>]	0 1	Off On	 On or Off for screen display of AWB OK/NG. The status is fixed at Off when TALLY signals are present.
control communa	Response	OSA:88:[<i>Data</i>]			
AWB execution underway status	Request	QSA:88	None		%The AK-UB300 is supported by V7.20 or a later version
display On/Off	Response	OSA:88:[Data]	0	Off	
query command			1	On	
AWB (AWC) Mode	Control	OAW:[Data]	In the ca	ase of the AW-HE50)/AW-HE60
control command	Response	OAW:[Data]	0 1 2 3 4 5 In the ca	ATW AWB A AWB B ATW ase of the AW-HE12 ATW AWB A AWB B ATW PRESET 3200K PRESET 5600K ase of the AW-HE13 70/AW-HE42/AW-U ATW AWB A AWB B ATW PRESET 3200K PRESET 5600K VAR	30/AW-HR140/AW-HE40/
	iveshouse	Onw.[Data]			

AWB (AWC) Mode query command Response Page	Command name	Category	Command	Data value	Setting	Remarks
ABB (ABC) Control Control command Contro		Request		None		
ABB (ABC)	query command	Response	OAW:[Data]			
ABB (ABC) Control Control command Contro						
In the case of the AW-HE120						
ABB (ABC)						
ABB (ABC)						
ABB (ABC)				-		
A						
In the case of the AW-HE130/AW-HR140/AW-UE150				4	PRESET 3200K	
Color Temperature control command						
ABB (ABC)						80/AW-HR140/AW-UE150
ABB (ABC)						
ABB (ABC)						
ABB (ABC)						
ABB (ABC)						
ABB (ABC)						
ABB (ABC))/AW-UE70/AW-HE42
ABB (ABC)						
ABB (ABC)				1	AWB A	
ABB (ABC) execution control command ABB (ABC) ER3:OAS ER2:OAS ABB(ABC) NG ABB(ABC) NG ABB(ABC) NG ABB(ABC) NG ABB(ABC) NG AW-HE120/AW-HE130/AW-HE40/AW-UE150 There is no response which supports this control command. Notification is given by the separate update notification function. For details, refer to "4. Camera information update notification" Color Temperature control command Control Control Control Control Control OSD:B1:[Data] In the case of the AW-HE130/AW-HR140 O00h O00h O00h O00h O00h O00h O00h O				2	AWB B	
ABB (ABC)				3	ATW	
ABB (ABC)				4	PRESET 3200K	
ABB (ABC)				5	PRESET 5600K	
Notification control command Notification control command Ray Notification Control command Ray Notification Ray Ra				9	VAR	
Control command ER3:OAS ER2:OAS ABB(ABC) NG AW-HE120/AW-HE130/AW-HE40/ AW-UE70/AW-HE42/ AK-UB300/AW-HR140/AW-UE150 There is no response which supports this control command. Notification is given by the separate update notification function. For details, refer to "4. Camera information update notification". Color Temperature control command OSD:B1:[Data] In the case of the AW-HE130/AW-HR140	ABB (ABC)	Control	OAS	None		ABB (ABC) is executed.
Color Temperature control command	execution	Notification	OAS		ABB(ABC) OK	※Only supported by the
Color Temperature control command	control command		ER3:OAS		ABB(ABC) NG	AW-HE120/AW-HE130/AW-HE40/
Color Temperature control command			ER2:OAS		ABB(ABC) NG	AW-UE70/AW-HE42/
Color Temperature control command					(Busy)	AK-UB300/AW-HR140/AW-UE150
Color Temperature control command						
Color Temperature control command						T =
Color Temperature control command						
Color Temperature control command						1
Color Temperature control command						
Color Temperature control command						
Color Temperature control command Control OSD:B1:[Data] In the case of the AW-HE130/AW-HR140						<u> </u>
control command 000h 2000K 001h 2010K 002h 2020K 003h 2040K 004h 2050K 005h 2070K 006h 2080K 007h 2090K 008h 2110K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K	O de la Tamana de la Caracteria	0 t 1	000-04-10-4-1	l., 4l		
001h 2010K 002h 2020K 003h 2040K 004h 2050K 005h 2070K 006h 2080K 007h 2090K 008h 2110K 009h 2120K 009h 2140K 008h 2140K 008h 2150K 00Ch 2170K 00Dh 2180K		Control	OSD:BT:[Data]			30/AVV-HR 140
002h 2020K 003h 2040K 004h 2050K 005h 2070K 006h 2080K 007h 2090K 008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K	Control Command					
003h 2040K 004h 2050K 005h 2070K 006h 2080K 007h 2090K 008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
004h 2050K 005h 2070K 006h 2080K 007h 2090K 008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
005h 2070K 006h 2080K 007h 2090K 008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
006h 2080K 007h 2090K 008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
007h 2090K 008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
008h 2110K 009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
009h 2120K 00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
00Ah 2140K 00Bh 2150K 00Ch 2170K 00Dh 2180K						
00Bh 2150K 00Ch 2170K 00Dh 2180K						
00Ch 2170K 00Dh 2180K						
00Dh 2180K						
, , , , , , , , , , , , , , , , , , ,						
00Fh 2210K						

Command name	Category	Command	Data value	Setting	Remarks
			010h	2230K	
			011h	2240K	
			012h	2260K	
			013h	2280K	
			014h	2300K	
			015h	2310K	
			016h	2330K	
			017h	2340K	
			018h 019h	2360K 2380K	
			019h	2400K	
			01Bh	2420K	
			01Ch	2440K	
			01Dh	2460K	
			01Eh	2480K	
			01En	2500K	
			020h	2520K	
			021h	2540K	
			022h	2560K	
			023h	2600K	
			024h	2620K	
			025h	2640K	
			026h	2680K	
			027h	2700K	
			028h	2720K	
			029h	2740K	
			02Ah	2780K	
			02Bh	2800K	
			02Ch	2820K	
			02Dh	2850K	
			02Eh	2870K	
			02Fh	2920K	
			030h	2950K	
			031h	2970K	
			032h 033h	3000K 3020K	
			034h	3070K	
			03411 035h	3100K	
			035h	3120K	
			037h	3150K	
			038h	3200K	
			039h	3250K	
			03Ah	3270K	
			03Bh	3330K	
			03Ch	3360K	
			03Dh	3420K	
			03Eh	3450K	
			03Fh	3510K	
			040h	3570K	
			041h	3600K	
			042h	3660K	
			043h	3720K	
			044h	3780K	
			045h	3840K	
			046h	3870K	

Command name	Category	Command	Data value	Setting	Remarks
			047h	3930K	
			048h	3990K	
			049h	4050K	
			04Ah	4110K	
			04Bh	4170K	
			04Ch	4240K	
			04Dh	4320K	
			04Eh	4360K	
			04Fh	4440K	
			050h 051h	4520K	
			051h	4600K 4680K	
			052H	4760K	
			054h	4840K	
			055h	4920K	
			056h	5000K	
			057h	5100K	
			058h	5200K	
			059h	5300K	
			05Ah	5400K	
			05Bh	5500K	
			05Ch	5600K	
			05Dh	5750K	
			05Eh	5850K	
			05Fh	6000K	
			060h	6150K	
			061h	6300K	
			062h	6450K	
			063h	6650K	
			064h	6800K	
			065h	7000K	
			066h	7150K	
			067h	7400K	
			068h	7600K	
			069h	7800K	
			06Ah	8100K	
			06Bh 06Ch	8300K 8600K	
			06Dh	8900K	
			06Eh	9200K	
			06Fh	9600K	
			070h	10000K	
			070H	10500K	
			07111 072h	11000K	
			072h	11500K	
			074h	12000K	
			075h	12500K	
			076h	13000K	
			077h	14000K	
			078h	15000K	

Command name	Category	Command	Data value	Setting	Remarks
			In the ca	ase of the AW-HE40	//AW-UE70/AW-HE42
			000h	2400K	
	Response	OSD:B1:[Data]	001h	2500K	
			002h	2600K	
			003h	2700K	
			004h 005h	2800K 2900K	
			005h	3000K	
			007h	3100K	
			008h	3200K	
			009h	3300K	
			00Ah	3400K	
			00Bh	3500K	
			00Ch	3600K	
			00Dh	3700K	
			00Eh	3800K	
			00Fh	3900K	
			010h	4000K	
			011h 012h	4100K 4200K	
			012h	4300K 4300K	
			013h	4400K	
			015h	4500K	
			016h	4600K	
			017h	4700K	
			018h	4800K	
			019h	4900K	
			01Ah	5000K	
			01Bh	5100K	
			01Ch	5200K	
			01Dh 01Eh	5300K 5400K	
			01En	5500K	
			020h	5600K	
			021h	5700K	
			022h	5800K	
			023h	5900K	
			024h	6000K	
			025h	6100K	
			026h	6200K	
			027h	6300K	
			028h	6400K	
			029h	6500K	
			02Ah 02Bh	6600K 6700K	
			02Bh 02Ch	6800K	
			02Ch	6900K	
			02Eh	7000K	
			02Fh	7100K	
			030h	7200K	
			031h	7300K	
			032h	7400K	
			033h	7500K	
			034h	7600K	

Command name	Category	Command	Data value	Setting	Remarks
			035h	7700K	
			036h	7800K	
			037h	7900K	
			038h	8000K	
			039h	8100K	
			03Ah	8200K	
			03Bh	8300K	
			03Ch	8400K	
			03Dh	8500K	
			03Eh	8600K	
			03Fh	8700K	
			040h	8800K	
			041h	8900K	
			042h	9000K	
			043h	9100K	
			044h	9200K	
			045h	9300K	
			046h	9400K	
			047h	9500K	
			048h	9600K	
			049h	9700K	
			04Ah	9800K	
0.1. T		000.04	04Bh	9900K	
Color Temperature	Request	QSD:B1	None	f 4b A\A/	00/00/01/10/40
query command	Response	OSD:B1:[Data]		ase of the AW-HE13	
			000h	2000K	Refer to the Data/Setting values of the control command.
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ 45000K	of the control command.
			078h	15000K	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
					0/AW-UE70/AW-HE42
			000h	2400K	Refer to the Data/Setting values of the control command.
			}	}	of the control command.
	0 / 1	001.45 (0.4.1	04Bh	9900K	
Color temperature	Control	OSI:1E:[Data]		ase of the AK-UB30	0
(increment)		001.45.55	1		
control command	Response	OSI:1E:[Data]			•Increment from the current color
			1 41	C (1 A) A (1) E 4 5	temperature value.
				ase of the AW-UE15	00
			1h		
			~		
Color temperature	Control	OSI:1F:[Data]	Ah In the e	l ase of the AK-UB30	0
(decrement)	COLLEGE	Ooi. if.[Data]	1 1	 	Decrement from the current color
control command	Response	OSI:1F:[Data]	┪		temperature value.
John of John Maria	response	Ooi. if.[Data]	In the co	I ase of the AW-UE15	-
			1h	Se of the AVV-OETS	
			~		
			Ah		
Color temperature	Control	OSI:20:[Data1][[Data1		※ Only supported by the
control command	Control	Data2]		0 K	AW-UE150.
Control Command		Datazj]]	V IX	/WV OL 100.

Command name	Category	Command	Data value	Setting	Remarks
	Response	OSI:20:[Data1][00000	~	•The range is 2000K~15000K
		Data2]	h ~	1048575 K	•[Data2] is fixed at 0
			FFFF	Valid	- [Data2] is liked at 0
			Fh		
			[Data2		
] 0h		
Color temperature query command	Request	QSI:20	None		
	Response	OSI:20:[Data1]:[In the ca	ase of the AK-UB30	0
		Data2]	[Data1		Returns the current color
]	0 K	temperature value in [Data1].
			00000 h	} 1048575 K	If the color temperature value is within the device specifications
			'' _₹	1046575 K	range, "0h: Valid" is returned in
			FFFF	Valid	[Data2].
			Fh	Under	If the color temperature value is
			[Data2	Over	outside the device specifications
]		range, "1h: Under" or "2h: Over" is
			0h		returned in [Data2].
			1h 2h		
				Lase of the AW-UE15	1 50
			[Data1		•The range is 2000K~15000K
			j	0 K	
			00000	~	•[Data2] is fixed at 0
			h ~	1048575 K	
			FFFF	Valid	
			Fh		
			[Data2		
] 0h		
ATW Speed	Control	OSI:25:[<i>Data</i>]	0	Normal	※ Only supported by the
control command		0 - 1120 (2 010)	1	Slow	AW-HR140/AW-UE150
	Response	OSI:25:[Data]	2	Fast	
ATW Speed	Request	QSI:25	None		※ Only supported by the
query command	Response	OSI:25:[Data]	0	Normal Slow	AW-HR140/AW-UE150
			2	Fast	
ATW Width	Control	OSI:26:[<i>Data</i>]	1	1	※ Only supported by the
control command			2	2	AW-HR140
	Response	OSI:26:[Data]	3	3	
			4	4	
ATW Width	Request	QSI:26	5 None	5	※ Only supported by the AW-HR140
query command	Response	OSI:26:[<i>Data</i>]	1	1	A Only supported by the AVV-FIX 140
-125.) Johnnana	1.00001100	J 520.[Data]	2	2	
			3	3	
			4	4	
			5	5	
AWB gain offset	Control	OSJ:0C:[Data]	0h	Off	MONUTED MANUTED MONUTED
control command	Response	OSJ:0C:[Data]	1h	On	AW-UE150

Command name	Category	Command	Data value	Setting	Remarks
AWB gain offset	Request	QSJ:0C	None		
query command	Response	OSJ:0C:[Data]	0h	Off	
			1h	On	
ATW Target R	Control	OSJ:0D:[Data]	76h	-10	*Only supported by the
control command	Response	OSJ:0D:[Data]	≀ 80h	}	AW-UE150
			\ \	0	
			8Ah	+10	
ATW Target R	Request	QSJ:0D	None	10	
query command	Response	OSJ:0D:[Data]	76h	-10	
	-		₹	≀	
			80h	0	
			₹	≀	
			8Ah	+10	
ATW Target B	Control	OSJ:0E:[Data]	76h	-10	*Only supported by the
control command	Response	OSJ:0E:[Data]) 00h	}	AW-UE150
			80h ≀	0	
			8Ah	+10	
ATW Target B	Request	QSJ:0E	None	. 10	
query command	Response	OSJ:0E:[Data]	76h	-10	
' '			₹	₹	
			80h	0	
			₹	≀	
			8Ah	+10	
AWB COLOR	Control	OSJ:48:[Data]	1h	1	※Only supported by the
TEMPERATURE	Response	OSJ:48:[Data]	≀	} }	AW-UE150
INC			Ah	10	
control command AWB COLOR	Control	OSJ:49:[Data]	1h	1	※Only supported by the
TEMPERATURE	Response	OSJ:49:[Data]	1 111	'{	AW-UE150
DEC	rtesponse	000.49.[Data]	Ah	10	700 02100
control command					
AWB COLOR	Control	OSJ:4A:[Data	[Data		※Only supported by the
TEMPERATURE		1]:[Data2]	1]	2000 K	AW-UE150
query command	Response	OSJ:4A:[Data	007D	₹	
		1]:[Data2]	0h	15000 K	•[Data2] is fixed at 0
			}		
			03A9		
			8h		
			[Data 2]		
			0h	Valid	
			1h	Under	
			2h	Over	
	Request	QSJ:4A	None		
	Response	OSJ:4A:[Data	[Data		
		1]:[Data2]	1]	2000 K	
			007D	\ 45000.14	
			0h	15000 K	
			03V0 }		
			03A9 8h		
			[Data		
			2]		
			<u> </u>	I	<u> </u>

Command name	Category	Command	Data value	Setting	Remarks
			0h	Valid	
			1h	Under	
			2h	Over	
AWB R Gain	Control	OSJ:4B:[Data]	670h	-400	※Only supported by the
control command	Response	OSJ:4B:[Data]	₹	₹	AW-UE150
			800h	0	
			₹	₹	
			990h	400	
AWB R Gain	Request	QSJ:4B	None		
query command	Response	OSJ:4B:[Data]	670h	-400	
			}	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			800h	0	
			\ \ \	}	
AVAID D.O.:	0 1 1	001405041	990h	400	WO
AWB B Gain	Control	OSJ:4C:[Data]	670h	-400	*Only supported by the
control command	Response	OSJ:4C:[Data]	≀ 800h	0	AW-UE150
			\ \	0	
			990h	400	
AWB B Gain	Request	QSJ:4C	None	400	
query command	Response	OSJ:4C:[Data]	670h	-400	
query command	Response	OCC.+C.[Data]	₹	} }	
			800h	0	
			}	} }	
			990h	400	
AWB G Axis	Control	OSJ:4D:[Data]	670h	-400	%Only supported by the
control command	Response	OSJ:4D:[Data]	}	}	AW-UE150
	'		800h	0	
			₹	}	
			990h	400	
AWB G Axis	Request	QSJ:4D	None		
query command	Response	OSJ:4D:[Data]	670h	-400	
			₹	}	
			800h	0	
			₹	₹	
			990h	400	

-AWB (AWC) execution

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OWS&res=0

[Response] AW-HE50 \rightarrow PC

None

•AWB (AWC), ABB execution underway status display: On

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:88:1&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OSA:88:1"

-AWB (AWC) mode: ATW

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OAW:0&res=1

[Response] AW-HE50 → PC

200 OK "OAW:0"

ABB execution

[Control] PC → AW-HE120 http://192.168.0.10/cgi-bin/aw_cam?cmd=OAS&res=0 [Response] AW-HE120 → PC 200 OK "OAS"

3.2.10. Detail setting

These commands control the detail of the camera and enable the current settings to be acquired.

Table 3.2.10. Detail setting

Detail Control command C				_	tali setting	
Control command Part Pa	Command name	Category	Command	Data value	Setting	Remarks
Control command Figure	Detail	Control	ODT:[Data]	In the cas	se of the	
Detail	control command			AW-HE5	0/AW-HE60/AW-	-HE120/AW-HE40/AW-UE70/AW-HE42
Page						
Response Part Par				_	_	9
Detail Response ODT:[Data] Response ODT:[Data] Response ODT:[Data] Response ODT:[Data] In the case of the AW-HE-130/AW-HE40/AW-UE70/AW-HE42 O				-		(Erto is retained).
Response ODT:[Data] None						130/AK HB300/AW HB440/AW HE450
Response ODT.[Data] Request ODT None						: 130/AK-UB300/AVV-HK140/AVV-UE150
Response QDT Data Request QDT				_		
Detail Request QDT None None Response QDT:[Data] QDT:[Dat					_	
Detail query command query command query command query command Response ODT:[Data]				2	On	
Response ODT:[Data]		Response	ODT:[Data]			
H.DTL LEVEL H query command	Detail	Request	QDT	None		
H.DTL LEVEL H query command	query command	Response	ODT:[Data]	In the cas	se of the	
H.DTL LEVEL H query command Control command Control command Response OSD:12:[Data] H.DTL LEVEL L query command Response OSD:12:[Data] H.DTL LEVEL L query command Response OSD:12:[Data]		•				-HE120/AW-HE40/AW-UE70/AW-HE42
Low High						
H.DTL LEVEL H query command Response OSD:12:[Data] OSD						•
H.DTL LEVEL H query command Response OSD:0A:[Data] OSD:0A:[Data] O2h				-		(Litto is returned).
H.DTL LEVEL H control command Control Control command Cont						120/AK HB200/AW HB440/AW HE450
H.DTL LEVEL H control command Control control command Contro					1	TOU/AK-UBSUU/AVV-HKT4U/AVV-UE15U
H.DTL LEVEL H control command				_	-	
H.DTL LEVEL H control command Control Control Command Control Control Command Control Control Command Control Control Command Control Control Control Control Control Command Control Control Command Control Control Control Control C						
control command Control command Response OSD:0A:[Data] A sign of the setting of the setting is reflected. The setting can never be lower than the H.DTL LEVEL L. Wonly supported by the AW-HE120. H.DTL LEVEL H query command Response OSD:0A:[Data] 02h 2 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4					_	
Response OSD:0A:[Data] None Wonly supported by the AW-HE120.	H.DTL LEVEL H	Control	OSD:0A:[Data]	02h	2	
Response OSD:0A:[Data] None Wonly supported by the AW-HE120.	control command				\	detail setting, this command is
Response OSD:0A:[Data] None Wonly supported by the AW-HE120.				3Fh	63	
Response OSD:0A:[Data] Seponse OSD:0A:[Data] Wonly supported by the AW-HE120.						
Response OSD:0A:[Data] Request QSD:0A None QSD:0A:[Data] Response OSD:0A:[Data] O2h 2 2 3Fh 63						
Response OSD:0A:[Data] Request QSD:0A None						
H.DTL LEVEL H query command Response OSD:0A:[Data] O2h 2 3 3Fh 63 H.DTL LEVEL L control command Response OSD:12:[Data] O1h 1 4 62 H.DTL LEVEL L query command Response OSD:12:[Data] O1h 1 4 62 H.DTL LEVEL L query command Response OSD:12:[Data] O1h 1 1 1 1 1 1 1 1 1		Resnonse	OSD:0A:[Data]	1		
Response OSD:0A:[Data] O2h 2 3Fh 63	H DTI I EVEL U			None		₩Only supported by the AW HE120
H.DTL LEVEL L control command	l ·	•			2	Acting supported by the Avv-HE 120.
H.DTL LEVEL L control command	query command	Response	USD.UA.[Data]			
H.DTL LEVEL L control command Control command Control OSD:12:[Data] 01h 1 2 3Eh 62 62 62 62 62 62 62 6						
control command Control command Control com						
H.DTL LEVEL Control command Response OSA:31:[Data] Control command Response OSA:31:[Data] Control command Response OSA:31:[Data] Control command Response OSA:31:[Data] ONA:31:[Data] ONA:31:[Da		Control	OSD:12:[<i>Data</i>]		1	
• The level is set to less than the H.DTL LEVEL H setting.	control command				1	
H.DTL LEVEL L Request QSD:12:[Data] WOnly supported by the AW-HE120. Wonly supported by the AK-UB300. Wonly s				3Eh	62	received, and its setting is reflected.
H.DTL LEVEL L Request QSD:12:[Data] WOnly supported by the AW-HE120. Wonly supported by the AK-UB300. Wonly s						
H.DTL LEVEL L query command Response OSD:12:[Data] Wonly supported by the AW-HE120. AW-HE120. Wonly supported by the AW-HE120. Wonly supported by the AW-HE120. Wonly supported by the AK-UB300. Wonly supported						
Response OSD:12:[Data]						9
query command Response OSD:12:[Data] 01h 1 2 3Eh 62 H.DTL LEVEL control command Control OSA:31:[Data] 00h 0 **Only supported by the AK-UB300. Response OSA:31:[Data] 3Fh 63 H.DTL LEVEL query command Request QSA:31 None **Only supported by the AK-UB300. Response OSA:31:[Data] 00h 0 **Only supported by the AK-UB300.		Response	OSD:12:[<i>Data</i>]			
query command Response OSD:12:[Data] 01h 1 2 3Eh 62 H.DTL LEVEL control command Control OSA:31:[Data] 00h 0 **Only supported by the AK-UB300. Response OSA:31:[Data] 3Fh 63 H.DTL LEVEL query command Request QSA:31 None **Only supported by the AK-UB300. Response OSA:31:[Data] 00h 0 **Only supported by the AK-UB300.	H.DTL LEVEL L	Request	QSD:12	None		※Only supported by the AW-HE120.
H.DTL LEVEL Control OSA:31:[Data] 00h 0 WOnly supported by the AK-UB300.	l l	•			1	1
H.DTL LEVEL Control OSA:31:[Data] 00h 0	' '	1	[]	_		
H.DTL LEVEL control command Control Properties Control OSA:31:[Data] 00h 2 3Fh 3Fh 63 **Only supported by the AK-UB300. H.DTL LEVEL query command Request Request Properties QSA:31 None Properties **Only supported by the AK-UB300. Response QSA:31:[Data] 00h 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
control command Image: Response of the control command of the control control command of the control command of the control command of the control control control control control control co	LI DTI I EVEI	Control	OSV:31:[Data]			XOnly cupported by the AV LIP200
Response OSA:31:[Data] 3Fh 63 H.DTL LEVEL query command Request QSA:31 Response None SA:31:[Data] WOnly supported by the AK-UB300. Response OSA:31:[Data] 00h 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Control	USA.S1.[Data]		_	™Only supported by the AK-OD300.
H.DTL LEVEL Request QSA:31 None **Only supported by the AK-UB300. Query command Response OSA:31:[Data] 00h 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	control command					
H.DTL LEVEL Request QSA:31 None **Only supported by the AK-UB300. Response OSA:31:[Data] 00h 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Response	OSA:31:[Data]	3Fh	63	
query command Response OSA:31:[Data] 00h 0 1	H.DTL LEVEL			None		*Only supported by the AK-UB300
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	•			0	
	query communant	veshouse	OSA.ST.[Data]		_	
					7	
				3Fh	63	

			Data		
Command name	Category	Command	value	Setting	Remarks
V DTL LEVEL H control command	Control	OSD:0E:[Data] OSD:0E:[Data]	02h	2	 Even when Off is selected as the detail setting, this command is received, and its setting is reflected. The setting can never be lower than the V DTL LEVEL L. ※Only supported by the AW-HE120.
V DTL LEVEL H	Response Request	QSD:0E.[Data]	None		%Only supported by the AW-HE120.
query command	Response	OSD:0E:[Data]	02h	2	
query comment	responds	OGD.OZ.[Dutu]	≀ 1Fh	2 31	
V DTL LEVEL L control command	Control	OSD:16:[<i>Data</i>]	01h	1	 Even when Off is selected as the detail setting, this command is received, and its setting is reflected. The level is set to less than the V DTL LEVEL H setting. ※Only supported by the AW-HE120.
	Response	OSD:16:[Data]			
V DTL LEVEL L	Request	QSD:16	None	ļ.,	※Only supported by the AW-HE120.
query command	Response	OSD:16:[<i>Data</i>]	01h	1	
V DTL LEVEL control command	Control	OSD:A1:[Data]	79h	-7	**Only supported by the AW-HE130/AW-HR140/AW-UE150.
			₹ 87h	₹ 7	
)	Response	OSD:A1:[Data]			
V DTL LEVEL query command	Request	QSD:A1	None		**MONIY supported by the AW-HE130/AW-HR140/AW-UE150.
	Response	OSD:A1:[Data]	79h ≀ 80h	-7 ≀ 0	
			≀ 87h		
V.DTL LEVEL control command	Control	OSG:32:[Data]	00h ≀	0	**Only supported by the AK-UB300.
	Response	OSG:32:[Data]	3Fh	63	
V.DTL LEVEL	Request	QSG:32	None		XOnly supported by the AK-UB300.
query command	Response	OSG:32:[Data]	00h ≀ 3Fh	0	
DETAIL BAND control command	Control	OSD:1E:[Data]	01	1	Even when Off is selected as the detail setting, this command is received, and its setting is reflected. The detail boost frequency can be controlled and the settings can be acquired.
	Response	OSD:1E:[Data]			 If a high frequency is set, smaller subjects can be provided with the detail effect. ※Only supported by the AW-HE120.
	Control	OSD:A2:[Data]	79h	-7	※Only supported by the
		,,	₹	1	AW-HE130/AW-HR140/AW-UE150.
			80h	0	
	<u> </u>		≀	₹	

Command name	Category	Command	Data value	Setting	Remarks		
	Response	OSD:A2:[Data]	87h	7			
DETAIL BAND query command	Request Response	QSD:1E OSD:1E:[Data]	None 01	1	**Only supported by the AW-HE120.		
	Request	QSD:A2	None		**Only supported by the AW-HE130/AW-HR140/AW-UE150.		
	Response	OSD:A2:[Data]	79h	-7			
PEAK FREQUENCY control command	Control	OSG:30:[Data]	00h	0	 ※Only supported by the AK-UB300. During 4K format: Only 00h(0)~ 04h(4) supported During HD format: 00h(0)~1Fh(31) supported 		
	Response	OSG:30:[Data]					
PEAK FREQUENCY query command	Request Response	QSG:30 OSG:30:[<i>Data</i>]	None 00h	0	 *Only supported by the AK-UB300. During 4K format: Only 00h(0)~ 04h(4) supported During HD format: 00h(0)~1Fh(31) supported 		
V DETAIL FREQUENCY control command	Control	OSG:35:[<i>Data</i>]	00h	0	 Only supported by the AK-UB300. During 4K format: Only 00h(0)~ 04h(4) supported During HD format: 00h(0)~1Fh(31) supported 		
V DETAIL	Request	QSG:35	None		%Only supported by the AK-UB300.		
FREQUENCY query command	Response	OSG:35:[<i>Data</i>]	00h	0	During 4K format: Only 00h(0)~ 04h(4) supported During HD format: 00h(0)~1Fh(31) supported		
NOISE	Control	OSD:22:[Data]	In the case of the AW-HE120				
SUPPRESS/CRISP control command			00h { 07h	0 ? 7	 Even when Off is selected as the detail setting, this command is received, and its setting is reflected. The screen noise produced by the detail is reduced. The higher the value, the lower the noise. 		
					E130/AW-HR140		
			00h	0 1 60			
			In the ca	se of the AW-UI	B300		

Command name	Category	Command	Data value	Setting	Remarks
			00h	0	
			₹	₹	
	Response	OSD:22:[<i>Data</i>]	3Fh	63	
	·				
NOISE SUPPRESS/CRISP	Request	QSD:22	None		400
query command	Response	OSD:22:[<i>Data</i>]	00h	se of the AW-HE	120
query communa			\ \ \	l ĭ	
			07h	7	
				se of the AW-HE	130/AW-HR140
			00h ≀	0	
			3Ch	60	
				se of the AW-UB	300
			00h	0	
			}	}	
FLESH TONE	Control	OSD:4B:[Data]	3Fh 00	63 Off	Even when Off is selected as the
NOISE SUPPRESS	Control	USD.46.[Data]	01	Low	detail setting, this command is
control command			02	High	received, and its setting is reflected.
					The amount of detail can be reduced
					for scenes having flesh tones in
					accordance with the settings. XOnly supported by the AW-HE120.
	Response	OSD:4B:[Data]			Monly supported by the AVV-112120.
	Control	OSD:A3:[Data]	80h	0	※Only supported by the
			₹	₹	AW-HE130/AW-HR140/AW-UE150.
			9Fh	31	
	Response	OSD:A3:[Data]			
FLESH TONE	Request	QSD:4B	None		※Only supported by the AW-HE120.
NOISE SUPPRESS	Response	OSD:4B:[Data]	00	Off	, , , , , , , , , , , , , , , , , , , ,
query command			01	Low	
	Danisant	QSD:A3	02	High	Works assessed by the
	Request	QSD:A3	None		
					7.1.7 1.2.100,7.1.7 11.1.110,7.1.7 02.100.
	Response	OSD:A3:[Data]	80h	0	
			}	}	
TOTAL DTL LEVEL	Control	OSA:30:[Data]	9Fh	31 se of the AW-HE	
control command	Control	OSA.SU.[Data]	81h	1	Even when Off is selected as the
			₹	`≀	detail setting, this command is
			92h	18	received, and its setting is reflected.
					■ In the case of the AW-HE60
					The level is set to less than the TOTAL DTL LEVEL HIGH.
					*Supported only by AW-HE60
					CameraMain V3.05 or subsequent
					versions.
					E130/AW-HR140 I
			61h ≀	0	
			9Fh	62	
			In the cas	se of the AW-HE	40/AW-UE70/AW-HE42
			81h	1	• The level is set to less than the
				\ \ 17	TOTAL DTL LEVEL HIGH.
			91h	17	

			D. (
Command name	Category	Command	Data value	Setting	Remarks
			In the cas	se of the AW-UB	300/AW-UE150
			61h	-31	
			} 20b	}	
			80h ≀	0	
	Response	OSA:30:[Data]	9Fh	+31	
TOTAL DTL LEVEL	Request	QSA:30	None		※AW-HE60 CameraMain V3.05 or
query command		Q9700			subsequent versions.
					※Only supported by the
					AW-HE130/AW-HR140.
	Response	OSA:30:[Data]		se of the AW-HE	
			81h }	1 }	CameraMain V3.05 or subsequent versions.
			92h	18	versions.
				se of the AW-HE	130/AW-HR140
			61h	0	
			}	₹	
			9Fh	62	
					40/AW-UE70/AW-HE42
			81h	1	
			≀ 91h		
				se of the AW-UB	300/AW-HE150
			61h	-31	
			₹	₹	
			80h	0	
			₹	₹	
TOTAL DTL LEVEL	Combinal	OCA-D4-(D-4-)	9Fh	+31 se of the AW-HE	00
HIGH	Control	OSA:B1:[Data]	82h	2	Even when Off is selected as the
control command			\ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	detail setting, this command is
			92h	18	received, and its setting is reflected.
					A level below the TOTAL DTL LEVEL
					setting cannot be set.
					※Supported only by AW-HE60 CameraMain V3.05 or subsequent
					versions.
			In the cas	se of the AW-HE	40/AW-UE70/AW-HE42
			82h	2	A level below the TOTAL DTL LEVEL
		004 84 58 4 1	≀	₹	setting cannot be set.
	Response	OSA:B1:[Data]	92h	18	
TOTAL DTL LEVEL	Request	QSA:B1	None		**Supported only by AW-HE60
HIGH query command					CameraMain V3.05 or subsequent versions.
query command	Response	OSA:B1:[Data]	In the cas	L se of the AW-HE	I .
	rtooponoo	Oor D T.[Data]	82h	2	※Supported only by AW-HE60
			₹	₹	CameraMain V3.05 or subsequent
			92h	18	versions.
					40/AW-UE70/AW-HE42
			82h ≀	2	
			92h	18	
DETAIL (+)	Control	OSA:38:[Data]	61h	-31	※ Only supported by the
control command			}	₹	AK-UB300/AW-UE150.
			80h	0	
			}	₹ .24	
	Response	OSA:38:[Data]	9Fh	+31	
DETAIL (+)	Request	QSA:38	None		※ Only supported by the
	<u>'</u>	<u> </u>	i	<u> </u>]

			Data		
Command name	Category	Command	value	Setting	Remarks
query command					AK-UB300/AW-UE150.
	Response	OSA:38:[<i>Data</i>]	61h	-31	
			≀ 80h	0	
			\ \ \	1 2	
			9Fh	+31	
DETAIL (-)	Control	OSA:39:[<i>Data</i>]	61h	-31	X Only supported by the
control command) 20h	0	AK-UB300/AW-UE150.
			80h }	1 2	
	Response	OSA:39:[<i>Data</i>]	9Fh	+31	
DETAIL (-) query command	Request	QSA:39	None		※ Only supported by the AK-UB300/AW-UE150.
query command	Response	OSA:39:[<i>Data</i>]	61h	-31	AK-0B300/AW-0E130.
	'		₹	₹	
			80h	0	
				≀ +31	
DETAIL +CLIP	Control	OSG:40:[Data]	00h	0	※ Only supported by the AK-UB300.
control command			₹	}	
	Response	OSG:40:[Data]	3Fh	63	
DETAIL +CLIP	Request	QSG:40	None		※ Only supported by the AK-UB300.
query command	Response	OSG:40:[Data]	00h	0	
			} 3Fh	63	
DETAIL -CLIP	Control	OSG:41:[Data]	00h	0	※ Only supported by the AK-UB300.
control command			₹	₹	
	Daananaa	000.44.[Detel	3Fh	63	
DETAIL -CLIP	Response Request	OSG:41:[<i>Data</i>]	None		Only supported by the AK-UB300.
query command	Response	OSG:41:[Data]	00h	0	2. Only supported by the 7th oboot.
	Response	030.41.[Data]	\ \	°	
			3Fh	63	
DETAIL SOURCE	Control	OSA:3B:[Data]	0	(G+R)/2	※ Only supported by the AK-UB300.
control command			1 2	(G+B)/2 (2G+B+R)/4	
	Response	OSA:3B:[Data]	3	(3G+R)/4	
			4	R	
DETAIL COLIDOR	<u> </u>	004.00	5	G	N/ O
DETAIL SOURCE query command	Request	QSA:3B	None	(0, 5)/0	Only supported by the AK-UB300.
quory command	Response	OSA:3B:[Data]	0	(G+R)/2 (G+B)/2	
			2	(2G+B+R)/4	
			3	(3G+R)/4	
			4	R	
KNEE APERTURE	Control	OSG:3F:[Data]	5 In the cas	Gse of the AW- UI	3300
LEVEL	Control	Joo.or .[Data]	00h	0	
control command			₹	₹	
	Daananaa	000,25,10-4-1	27h	39	
	Response	OSG:3F:[Data]	In the car	l se of the AW-UE	150
			00h	0	
			~	~	
IANEE ADEDT: 125	D :	000.05	05h	5	
KNEE APERTURE LEVEL	Request	QSG:3F	None		
	Response	OSG:3F:[Data]	In the cas	se of the AW- UI	B300

Command name	Category	Command	Data value	Setting	Remarks
query command			00h	0	
			₹	₹	
			27h	39	
				se of the AW-UE	150
			00h	0	
			~	~	
1 EVE	0 t 1	000.05.(0-4-1	05h	5	W. Outle commented booths AIC LIDOOD
LEVEL DEPENDENT SW	Control	OSG:3E:[Data]	0	Off On	※ Only supported by the AK-UB300.
control command	Response	OSG:3E:[Data]	1 '	Oli	
LEVEL	Request	QSG:3E	None		※ Only supported by the AK-UB300.
DEPENDENT SW	·			Off	, בבבביים בין נויפיים ביים
query command	Response	OSG:3E:[Data]	0	Off On	
	Control	OSD-26-[D-4-1			W Only supported by the AK UDSSS
LEVEL DEPENDENT	Control	OSD:26:[<i>Data</i>]	00h }	00	※ Only supported by the AK-UB300.
control command			0Fh	15	
control command	Response	OSD:26:[Data]	01.11		
LEVEL	Request	QSD:26	None		※ Only supported by the AK-UB300.
DEPENDENT	Response	OSD:26:[<i>Data</i>]	00h	00	1
query command	Response	03D.20.[Data]	\ \	00	
			0Fh	15	
Detail coring	Control	OSJ:12:[Data]	00h	0	※Only supported by the AW-UE150
control command	Response	OSJ:12:[Data]	₹	1	
			3Ch	60	
Detail coring	Request	QSJ:12	None		※Only supported by the AW-UE150
query command	Response	OSJ:12:[Data]	00h	0	
			₹	₹	
			3Ch	60	
Level depend	Control	OSJ:13:[Data]	79h	-7	※Only supported by the AW-UE150
control command	Response	OSJ:13:[Data]	₹	₹	
			80h	0	
			₹	₹	
			87h	7	
Level depend	Request	QSJ:13	None	<u> </u>	**Only supported by the AW-UE150
query command	Response	OSJ:13:[Data]	79h	-7	
			}	}	
			80h	0	
	I		87h	7	Í

Detail: Low

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=ODT:1&res=1

[Response] AW-HE50 → PC

200 OK "ODT:1"

•H.DTL LEVEL: H 63

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:0A:3F&res=1

[Response] AW-HE120 \rightarrow PC

200 OK "OSD:0A:3F"

•V DTL LEVEL: H 31

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:0E:1F&res=1

[Response] AW-HE120 → PC

200 OK "OSD:0E:1F"

•H.DTL LEVEL: L 62

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:12:3E&res=1

[Response] AW-HE120 \rightarrow PC

200 OK "OSD:12:3E"

•V DTL LEVEL: L 30

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:16:1E&res=1

[Response] AW-HE120 → PC

200 OK "OSD:16:1E"

•DETAIL BAND: 1

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:1E:01&res=1

[Response] AW-HE120 → PC

200 OK "OSD:1E:01"

•NOISE SUPPRESS/CRISP: 7

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw cam?cmd=OSD:22:07&res=1

[Response] AW-HE120 → PC

200 OK "OSD:22:07"

•FLESH TONE NOISE SUPPRESS: Low

[Control] $PC \rightarrow AW-HE120$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:4B:01&res=1

[Response] AW-HE120 → PC

200 OK "OSD:4B:01"

•TOTAL DTL LEVEL: 12

[Control] PC → AW-HE60

http://192.168.0.10/cgi-bin/aw cam?cmd=OSA:30:8C&res=1

[Response] AW-HE60 → PC

200 OK "OSA:30:8C"

•TOTAL DTL LEVEL HIGH: 18

[Control] PC → AW-HE60

http://192.168.0.10/cgi-bin/aw_cam?cmd= OSA:B1:92&res=1

[Response] AW-HE60 → PC

200 OK "OSA:B1:92"

3.2.11. Down convert detail

These commands set details of video down-converted from 4K to HD.

Table 3.2.11. Down convert detail

Command name	Category	Command	Data value	Setting	Remarks
Down convert detail	Control	OSJ:14:[Data]	0	Off	※Only supported by the
control command			1	On	AW-UE150
	Response	OSJ:14[Data]			
Down convert detail	Request	QSJ:14	None		
query command	Response	OSJ:14:[Data]	0	Off	
			1	On	
DC. Master Detail	Control	OSJ:15:[Data]	61h	-31	*Only supported by the
control command		001455045	~	~	AW-UE150
	Response	OSJ:15:[Data]	80h ∼	0 ~	
			9Fh	+31	
DC. Master Detail	Request	QSJ:15	None	131	
query command	Response	OSJ:15:[Data]	61h	-31	1
quory communa	response	OCO. TO.[Data]	~	~	
			80h	0	
			~	~	
			9Fh	+31	
DC. Detail Coring	Control	OSJ:16:[Data]	00h	0	※Only supported by the
control command			~	~	AW-UE150
	Response	OSJ:16:[Data]	3Ch	60	
DC. Detail Coring	Request	QSJ:16	None		
query command	Response	OSJ:16:[Data]	00h	0	
			~	~	
			3Ch	60	
DC. V Detail Level	Control	OSJ:17:[Data]	79h	-7	※Only supported by the
control command			_ ~	~	AW-UE150
	Response	OSJ:17:[Data]	80h	0	
			~	~	
DC. V Detail Level	Request	QSJ:17	87h None	+7	-
query command	Response	OSJ:17:[Data]	79h	-7	
query command	Response	OSJ. 17.[Data]	~	~	
			80h	0	
			~	~	
			87h	+7	
DC. Detail	Control	OSJ:18:[Data]	7Eh	-2	XOnly supported by the
Frequency		' '	~	~	AW-UE150
control command	Response	OSJ:18:[Data]	80h	0	
	•		~	~	
			82h	+2	
DC. Detail	Request	QSJ:18	None		
Frequency	Response	OSJ:18:[Data]	7Eh	-2	
query command			~	~	
			80h	0	
			~	~	
		001/075	82h	+2	W0 1
DC. Level Depend	Control	OSJ:19:[Data]	79h	-7	**Only supported by the
control command	D	00 1:40:10 - 1-1	~ 00h	~	AW-UE150
	Response	OSJ:19:[Data]	80h	0	

Command name	Category	Command	Data value	Setting	Remarks
			~	~	
			87h	+7	
DC. Level Depend	Request	QSJ:19	None		
query command	Response	OSJ:19:[Data]	79h	-7	
			~	~	
			80h	0	
			~	~	
			87h	+7	
DC. Knee Ape Level	Control	OSJ:1A:[Data]	00h	0	※Only supported by the
control command			01h	1	AW-UE150
	Response	OSJ:1A:[Data]	02h	2	
			03h	3	
			04h	4	
			05h	5	
DC. Knee Ape Level	Request	QSJ:1A	None		
query command	Response	OSJ:1A:[Data]	00h	0	
			01h	1	
			02h	2	
			03h	3	
			04h	4	
			05h	5	!

Example of use) Down convert detail: On

[Control] PC \rightarrow AW-UE150

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:14:1&res=1

[Response] AW-UE150 → PC

200 OK "OSJ:14:1"

3.2.12. Flesh Tone Mode setting

These commands control the flesh tone mode of the camera and enable the current settings to be acquired.

Table 3.2.12. Flesh Tone Mode setting

Command name	Category	Command	Data value	Setting	Remarks
Flesh Tone Mode control command	Control	OSE:32:[Data]	0 1 3	Off Low High	Disabled at the FullAuto setting (ER3 is returned). Supported only by the AW-HE50/AW-HE60/AW-HE40/A W-UE70/AW-HE42.
	Response	OSE:32:[Data]			
Flesh Tone Mode query command	Request	QSE:32	None		**Supported only by the AW-HE50/AW-HE60/AW-HE40/A W-UE70/AW-HE42.
	Response	OSE:32:[Data]	0	Off	VV 0270// WV 11212.
			1	Low	
			3	High	

Example of use) Flesh Tone Mode: High

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:32:3&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OSE:32:3"

3.2.13. Digital noise reduction (DNR) setting

These commands control the digital noise reduction (DNR) of the camera and enable the current settings to be acquired.

Table 3.2.13. Digital noise reduction (DNR) setting

Command name	Category	Command	Data value	Setting	Remarks		
Digital noise	Control	OSD:3A:[Data]	In the case of the AW-HE50/AW-HE60/				
reduction (DNR)			AW-HE40/A\	N-UE70/AW-HE42/AV	V-UE150		
control command			00	Off	Disabled at the FullAuto		
			01	Low	setting (ER3 is returned).		
			02	High			
			In the case of	f the AK-UB300			
			00	Off			
			01	On			
	Response	OSD:3A:[Data]	02	On			
Digital noise	Request	QSD:3A	None				
reduction (DNR)	Response	OSD:3A:[Data]	In the case of	of the AW-HE50/AW-H	E60/		
query command			AW-HE40/AN	N-UE70/AW-HE42/AV	V-UE150		
			00	Off			
			01	Low			
			02	High			
			In the case of	of the AK-UB300			
			00	Off			
			01	On			
			02	On			
DNR LEVEL	Control	OSG:B5:[Data]	1	1	※Only supported by the		
control command			} ≀	₹	AK-UB300.		
	Response	OSG:B5:[Data]	5	5			
DNR LEVEL	Request	QSG:B5	None				
query command	Response	OSG:B5:[Data]	1	1			
			}	₹			
			5	5			

Example of use) Digital noise reduction (DNR): High

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:3A:02&res=1

[Response] AW-HE50 → PC 200 OK "OSD:3A:02"

3.2.14. Pedestal setting

These commands control the pedestal of the camera and enable the current settings to be acquired.

Table 3.2.14. Pedestal setting

		Table 0.	_	estai setting	
Command name	Category	Command	Data value	Setting	Remarks
Pedestal	Control	OTP:[Data]	In the case	of the AW-HE50/AV	V-HE60/AW-HE40/
control command			AW-UE70/A	AW-HE42	
			000h	–10	Setting (menu display value)
			₹	₹	= (Data value — 0x96) / 15
			096h	0	Disabled at the FullAuto setting
			₹	\	(ER3 is returned).
			12Ch	+10	
					W-HE130/AW-HR140
			000h	–150	Setting (menu display value)
			}	}	= (Data value — 0x96)
			096h	0	
			} 400b	\ .450	
			12Ch	+150	
	Response	OTP:[Data]			
	Control	OTD:[Data]		of the AW-HE50/AV	V-HE60/AW-HE40/
			AW-UE70/A		
			00h	-10	Setting (menu display value)
			₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	= (Data value — 0x96) / 3
			1Eh	0	Disabled at the FullAuto setting
			}	₹	(ER3 is returned).
			3Ch	+10	MALIE 400/AMALIE 440
			00h	-150	W-HE130/AW-HR140 • Setting (menu display value)
			\ \	-130	= (Data value — 0x1E) x 5
			1Eh	0	- (Data value OXTE) X 3
			\ \{\chi_{\chi}\}	l ĭ≀	
			3Ch	+150	
	D	OTD-10-4-1			
Dadada	Response	OTD:[Data]	Nissa		
Pedestal	Request	QTP OTD:/Detel	None	-f +b - A\A/ LIFFO/A\/	// LIECO/ANA/ LIE 40/
query command	Response	OTP:[Data]	AW-UE70/A	of the AW-HE50/AV	V-NEOU/AVV-NE4U/
			000h	-10	Data value of response
			}	-10	= (Setting x 15 + 0x96)
			096h	0	= (Setting x 13 + 0x90)
			\ \	}	
			12Ch	+10	
			_		W-HE130/AW-HR140
			000h	-150	Data value of response
			₹	₹	= (Setting + 0x96)
			096h	0	,
			₹	₹	
			12Ch	+150	

Command name	Category	Command	Data value	Setting	Remarks
Pedestal	Request	QTD	None		
query command	Response	OTD:[Data]	In the case o	f the AW-HE	50/AW-HE60/AW-HE40/
			AW-UE70/AW-HE42		
			00h	-10	Data value of response
			₹	₹	= (Setting x 3 + 0x1E)
			1Eh	0	
			}	₹	
			3Ch	+10	
					120/AW-HE130/AW-HR140
			00h	-150	Data value of response
			₹	` ≀	= (Setting / 5 + 0x1E)
			1Eh	0	
			((
<u> </u>	0 1 1	000 44 55 43	3Ch	+150	W
Pedestal	Control	OSG:4A:[Data]	1Dh	-99	※Only enabled for the AK-UB300.
control command			\ \	₹	
			80h	0	
			≀	₹	
	Response	OSG:4A:[Data]	E3h	+99	
Pedestal	Request	QSG:4A	None		※Only enabled for the AK-UB300.
query command	Response	OSG:4A:[Data]	1Dh	-99	
			} }	₹	
			80h	0	
			} ≀	₹	
			E3h	+99	

•Pedestal: -10

[Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_cam?cmd=OTP:000&res=1 [Response] AW-HE50 → PC 200 OK "OTP:000"

·Pedestal: +10

[Control] PC → AW-HE50 http://192.168.0.10/cgi-bin/aw_cam?cmd=OTD:3C&res=1 [Response] AW-HE50 → PC 200 OK "OTD:3C"

3.2.15. Gamma/DRS setting

These commands control the Gamma or DRS of the camera and enable the current settings to be acquired.

There are three setting items: DRS, gamma type and gamma level.

Table 3.2.15. Gamma/DRS setting

Command name	Category	Command	Data value		Remarks
				Setting	
DRS control command	Control	OSE:33:[<i>Data</i>]	In the case o AW-UE70/AV		AW-HE60/AW-HE40/
			0	Off	Disabled at the FullAuto setting
			1 3	Low	(ER3 is returned).
				High	 /AW-HE130/AW-HR140/AW-UE150
			0	Off	When any setting except Off is
			1	Low	used for DRS and any setting
			2	Mid	except Normal is used for the
			3	High	gamma type or when digital
					zooming is valid, the setting is
					accepted but it is not reflected in the images. The setting is
					reflected in the images when the
					above restrictions are released.
	Response	OSE:33:[Data]			
DRS	Request	QSE:33	None		
query command	Response	OSE:33:[<i>Data</i>]			AW-HE60/AW-HE40/
			AW-UE70/AV	V-HE42 Off	- Dischlad at the Full Auto setting
			0	Low	Disabled at the FullAuto setting (ER3 is returned).
			3	High	(Zi to io iotamou).
			In the case o	f the AW-HE120	0/AW-HE130/AW-HR140/AW-UE150
			0	Off	
			1	Low	
			3	Mid	
Gamma type	Control	OSE:72:[<i>Data</i>]		High f the AW-HF50/	L AW-HE60/AW-HE120/AW-HE40/
control command	Control	OOL.72.[Data]	AW-UE70/AV		7 (
			0	Off	■ In the case of the AW-HE50/
			1	Normal	AW-HE60/AW-HE40/AW-UE70/AW-
			2	Cinema	HE42
					Disabled at the FullAuto setting (ER3 is returned).
					When the DRS is in any mode
					except Off, the setting is accepted
					but it is not reflected in the images.
					The setting is reflected in the images
					when DRS is changed from the mode which is not Off to Off.
			In the case o	f the AW-HE130	
			0	HD	
			1	SD	
			2	FILMLIKE1	
			3	FILMLIKE2	
			4	FILMLIKE3	
			in the case o	f the AW-HR140	J

Command name	Category	Command	Data value	Setting	Remarks
			0 2	HD FILMLIKE1	
			3 4	FILMLIKE2 FILMLIKE3	
	Response	OSE:72:[Data]	In the c	ase of the AW-U	IE150
			0	HD	130
			2	FILMLIKE1	
			3 4	FILMLIKE2 FILMLIKE3	
			5	FILM REC	
			6	VIDEO REC	
Gamma type	Request	QSE:72	7 None	HLG	
query command	Response	OSE:72:[Data]		the AW-HF50/	L AW-HE60/AW-HE120/AW-HE40/
	Пооролю	002.72.[24.4]	AW-UE70/AV		
			0	Off Normal	■ In the case of the AW-HE50/ AW-HE60/AW-HE40/AW-UE70/AW-
			2	Cinema	HE42
					Disabled at the FullAuto setting
					(ER3 is returned).
			In the case o	the AW-HE130	
			0	HD	
			1	SD FILMLIZE	
			3	FILMLIKE1 FILMLIKE2	
			4	FILMLIKE3	
			In the case o	f the AW-HR140 HD	
			2	FILMLIKE1	
			3	FILMLIKE2	
			In the case o	FILMLIKE3 f the AW-UE150	
			0	HD	
			2	FILMLIKE1	
			3 4	FILMLIKE2 FILMLIKE3	
			5	FILM REC	
			6 7	VIDEO REC HLG	
Gamma level	Control	OSD:50:[Data]	00	Low	■In the case of the AW-HE50/
control command			01 02	Mid	AW-HE60/AW-HE40/AW-UE70/AW-
			02	High	HE42 • Disabled at the FullAuto setting
					(ER3 is returned).
					■In the case of the AW-HE50/
					AW-HE60
					 When the DRS is in any mode except Off, the setting is accepted
					but it is not reflected in the images.
					The setting is reflected in the images when DRS is changed
					from the mode which is not Off to
					Off. • When the DRS is in any mode
					except Off and any setting except
					Normal is established for the

Command name	Category	Command	Data value	Setting	Remarks
					gamma type, the setting is accepted but it is not reflected in the images. The setting is reflected in the images when DRS is changed to Off and the gamma type is changed to Normal.
	Response	OSD:50:[<i>Data</i>]			■In the case of the AW-HE120 • When any setting except Normal is used for the gamma type, the setting is accepted but it is not reflected in the images. The setting is reflected in the images when the above restrictions are released. ※Only supported by the AK-UB300.
Gamma level query command	Request Response	QSD:50 OSD:50:[<i>Data</i>]	None 00 01 02	Low Mid High	**Only supported by the AK-UB300.
			\ \frac{1}{2}	9	
Gamma	Control	OSA:6A:[Data]	67h	0.30	**Only supported by the AW-HE130/AW-HR140/AW-UE150.
				≀ 0.55 ≀	
	Response	OSA:6A:[Data]	94h	0.75	WOods are not allow the
	Request	QSA:6A	None		※Only supported by the AW-HE130/AW-HR140/AW-UE150.
	Response	OSA:6A:[Data]	67h	0.30	
			{ 6Ch }	0.35	
			80h }	0.55	
			94h	0.75	
Extended DRS	Control	OSD:C8:[Data]	0	Off	No. 10 Amount No.
control command			3	Low High	AW-UE70/AW-HE42
	Response	OSD:C8:[Data]		Tilgii	
Extended DRS	Request	QSD:C8	None		
query command	Response	OSD:C8:[Data]	0	Off	※In the case of the AW-HE40/
			1	Low	AW-UE70/AW-HE42
MASTER BLACK	Control	OSA:07:[Data]	In the case of	High f the AK-UB300	
GAMMA	Control	OSA.07.[Data]	50h	-48	
control command			~	~	
			80h	0 ~	
			∼ B0h	~ +48	
				f the AW-UE150	
	Response	OSA:07:[Data]	78h	-8	

Command name	Category	Command	Data value	Setting	Remarks
			~	~	
			80h	0	
			~	~	
			88h	+8	
MASTER BLACK	Request	QSA:07	None		
GAMMA	Response	OSA:07:[Data]		f the AK-UB300	
query command			50h	-48	
			~ 80h	~	
			oun ~	0 ~	
			B0h	+48	
				f the AW-UE150	
			78h	-8	
			~	~	
			80h	0	
			~	~	
			88h	+8	
Black gamma range	Control	OSJ:1B:[Data]	1h	1	※Only supported by the AW-UE150
control command	Response	OSJ:1B:[Data]	2h	2	
			3h	3	
Black gamma range	Request	QSJ:1B	None		
query command	Response	OSJ:1B:[Data]	1h	1	
			2h	2	
			3h	3	
F-REC dynamic LVL	Control	OSA:10:[Data]		f the AK-UB300	
control command			0	200%	
			1	300%	
			2	400% 500%	
			In the case of	f the AW-UE150	
			0	200%	
	Response	OSA:10:[Data]	1	300%	
	rtesponse	OSA. TO.[Data]	2	400%	
			3	500%	
			4	600%	
F-REC dynamic LVL	Request	QSA:10	None		
query command	Response	OSA:10:[Data]	In the case of	f the AK-UB300	
			0	200%	
			1	300%	
			2	400%	
			3	500%	
			In the case o	f the AW-UE150	
			0	200%	
			1	300%	
			2	400%	
			3	500%	
E DEC block OTD	Control	064-05-10-4-1	4 00b	600%	WOnly aupported by the AM LIF450
F-REC black STR LVL	Control	OSA:0F:[Data]	00h	0	**Only supported by the AW-UE150
control command	Response	OSA:0F:[Data]		30	
F-REC black STR	Request	QSA:0F	None	30	
LVL	Response	OSA:0F:[Data]	00h	0	
query command	response	OOA.UI*.[Data]	\ \ \	}	
gaoi, communa			1Eh	30	
V-REC Knee slope	Control	OSA:25:[Data]		f the AK-UB300	

Command name	Category	Command	Data value	Setting	Remarks
control command			7Ch	150%	(1step=50%)
			₹	₹	
			80h	350%	
				≀ 600%	
				f the AW-UE150	
			7Ch	150%	(1step=50%)
	Response	OSA:25:[Data]	. ≀	₹	(10.00)
			80h	350%	
			₹	₹	
V 850 K	.	004.05	83h	500%	
V-REC Knee slope	Request Response	QSA:25	None	the AK-UB300	
query command	Response	OSA:25:[Data]	7Ch	150%	(1step=50%)
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	13070	(13tep=3070)
			80h	350%	
			₹	₹	
			85h	600%	
				f the AW-UE150	
			7Ch	150%	(1step=50%)
			} 80h		
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	} 330 %	
			83h	500%	
V-REC Knee point	Control	OSA:21:[Data]	In the case o	f the AK-UB300	
control command			62h	30%	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}	
			80h ≀	60% }	
			9Eh	90%	
				f the AW-UE150	
			62h	30%	
	Response	OSA:21:[Data]	₹	₹	
			80h	60%	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	≥	
			9Eh ≀	90%	
			AFh	107%	
V-REC Knee point	Request	QSA:21	None		
query command	Response	OSA:21:[Data]	In the case o	f the AK-UB300	
			62h	30%	
			\ \ 001-	}	
			80h ≀	60% }	
			9Eh	90%	
				f the AW-UE150	
			62h	30%	
			₹	₹	
			80h	60%	
) }	₹	
			9Eh ≀	90%	
			AFh	107%	
GAMMA MODE	Control	OSG:86:[Dat	0	HD	※Only supported by the AK-UB300
SELECT		a]	1	FILMLIKE1	

Command name	Category	Command	Data value	Setting	Remarks
					Remarks
control command	Response	OSG:86:[Dat a]	2 3 4 5	FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC	
GAMMA MODE	Request	QSG:86	None		
SELECT query command	Response	OSG:86:[Dat a]	0 1 2 3 4 5	HD FILMLIKE1 FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC	
MASTER GAMMA	Control	OSI:37:[Data]	1	INC	
INC control command	Response	OSI:37:[Data]			
MASTER GAMMA DEC control command	Control Response	OSI:38:[Data] OSI:38:[Data]	1	DEC	**Only supported by the AK-UB300
MASTER GAMMA	Request	QSI:34	None		**Only supported by the AK-UB300
query command	Response	OSI:34:[Data]	05DCh	0.1500	
			1194h	0.4500	
R GAMMA	Control	OSI:35:[Data]	35h	-75	**Only supported by the AK-UB300
control command	Response	OSI:35:[Data]	₹ 80h ₹ CBh	₹ 0 ₹ +75	
R GAMMA	Request	QSI:35	None		
query command	Response	OSI:35:[Data]	35h	-75	
B GAMMA	Control	OSI:36:[Data]	35h	-75	**Only supported by the AK-UB300
control command	Response	OSI:36:[Data]			
B GAMMA	Request	QSI:36	None	. •	
query command	Response	OSI:36:[Data]	35h	-75	
BLACK GAMMA SW	Control	OSA:0B:[Dat a]	0	OFF ON	**Only supported by the AK-UB300
control command	Response	OSA:0B:[Dat a]			
BLACK GAMMA	Request	QSA:0B	None		
SW query command	Response	OSA:0B:[Dat a]	0	OFF ON	
R BLACK GAMMA	Control	OSA:08:[Dat	6Ch	-20	※Only supported by the AK-UB300

Command name	Category	Command	Data value	Setting	Remarks
control command		a]	₹	₹	
	Response	OSA:08:[Dat	80h	0	
		a]	₹	₹	
			94h	+20	
R BLACK GAMMA	Request	QSA:08	None		
query command	Response	OSA:08:[Dat	6Ch	-20	
		a]	₹	. ₹	
			80h	0	
			\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			94h	+20	
B BLACK GAMMA	Control	OSA:09:[Dat	6Ch	-20	**Only supported by the AK-UB300
control command		a]	≀	. ₹	
	Response	OSA:09:[Dat	80h	0	
		a]	₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			94h	+20	
B BLACK GAMMA	Request	QSA:09	None		
query command	Response	OSA:09:[Dat	6Ch	-20	
		a]	₹	₹	
			80h	0	
				₹	
			94h	+20	
GAMMA SW	Control	OSA:0A:[Dat	0	OFF	**Only supported by the AK-UB300
control command		[a]	<u> </u> 1	ON	
	Response	OSA:0A:[Dat			
	_	a]			
GAMMA SW	Request	QSA:0A	None		
query command	Response	OSA:0A:[Dat	0	OFF	
	_	a]	1	ON	
DRS SW	Control	OSA:0D:[Dat	0	OFF	**Only supported by the AK-UB300
control command		a]	<u> </u> 1	ON	
	Response	OSA:0D:[Dat			
		a]			
DRS SW	Request	QSA:0D	None		
query command	Response	OSA:0D:[Dat	0	OFF	
		a]	1	ON	

•DRS: Off

[Control] PC \rightarrow AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:33:0&res=1

[Response] AW-HE50 → PC

200 OK "OSE:33:0"

Gamma type: Normal

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:72:1&res=1

[Response] AW-HE50 → PC

200 OK "OSE:72:1"

·Gamma level: Mid

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:50:01&res=1 [Response] AW-HE50 \rightarrow PC 200 OK "OSD:50:01"

3.2.16. Backlight compensation setting

These commands exercise On/Off control over the backlight compensation of the camera and enable the current settings to be acquired.

Table 3.2.16. Backlight compensation setting

Command name	Category	Command	Data value	Setting	Remarks
Backlight compensation control command	Control	OSE:73:[<i>Data</i>]	0 1	Off On	Disabled at the FullAuto setting (ER3 is returned). In the case of the AW-HE50/AW-HE60 When On is set for auto iris, or Auto is set for Frame Mix or Gain, the setting is accepted but it is not reflected in the images. The setting is reflected in the images when auto iris is changed from On to Off, or Frame Mix or Gain is changed to Manual. ※Supported only by the AW-HE50/AW-HE60/AW-HE40/A
Backlight	Request	QSE:73	None		W-UE70/AW-HE42. **Supported only by the
compensation query command	Response	OSE:73:[Data]	0	Off On	AW-HE50/AW-HE60/AW-HE40/A W-UE70/AW-HE42.

Example of use)

Backlight compensation: Off

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:73:0&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OSE:73:0"

3.2.17. Genlock setting

These commands exercise genlock control over the camera and enable the current settings to be acquired.

The setting items include horizontal sync phase, subcarrier sync phase (coarse) and subcarrier sync phase (fine).

Table 3.2.17. Genlock setting

		10010 01	1	llock setting	
Command name	Category	Command	Data value	Setting	Remarks
Horizontal sync	Control	OHP:[Data]	000h	-206	*This command has no effect with the
phase			}	₹	AW-HE50H/AW-HE60H.
control command			338h	0	Setting (menu display value)
	Response	OHP:[Data]	-	≀ +49	= (Data value/ 4 — 206)
Horizontal sync	Request	QHP	None		※This command has no effect with the
phase	Response	OHP:[Data]	000h	-206	AW-HE50H/AW-HE60H.
query command			}	₹	Data value
			338h	0	= (Setting + 206) x 4
			₹	₹	
			3FCh	+49	
Subcarrier sync	Control	OSC:[Data]	0	90°	%Supported only by the AW-HE50S/
phase (coarse)			1	180°	AW-HE60S.
control command	_		2	270°	
	Response	OSC:[Data]	3	0°	
Subcarrier sync	Request	QSC	None	000	Supported only by the AW-HE50S/
phase (coarse)	Response	OSC:[Data]	0	90°	AW-HE60S.
query command			1	180°	The data value differs depending on the responses to the control command
			2	270° 0°	and query command.
			5	45°	and query command.
			6	135°	
			7	225°	
			8	315°	
Subcarrier sync	Control	OSN:[Data]	000h	-127	%Supported only by the AW-HE50S/
phase (fine)			₹	₹	AW-HE60S.
control command			007h	-127	
			008h	-126	
			₹	₹	
			200h	0	
			}	₹	
			3FBh	+126	
			3FCh	+127	
	Deenenee	OCN-[Dete]] ≀ 3FFh		
Subcarrier sync	Response Request	OSN:[Data] QSN	None	+1Z1	%Supported only by the AW-HE50S/
phase (fine)	Response	OSN:[Data]	000h	-127	AW-HE60S.
query command	Response	OON.[Data]	}	121	7.WV 112000.
4			007h	_127	
			008h	-126	
			₹	₹	
			200h	0	
			₹	₹	
			3FBh	+126	
			3FCh	+127	
			}	₹	
			3FFh	+127	

Command name	Category	Command	Data value	Setting	Remarks
GEN-LOCK INPUT	Control	OSG:CA:[Data]	0	BNC	※Only supported by the AK-UB300.
control command	Response	OSG:CA:[Data]	1	DSUB	
GEN-LOCK INPUT	Request	QSG:CA	None		
query command	Response	OSG:CA:[Data]	0	BNC	
			1	DSUB	
H PHASE-COARSE	Control	OSG:CB:[Data]	3h	-5	※Only supported by the AK-UB300.
control command			₹	₹	
			8h	0	
		000 00 10 11	. ≀	₹	
	Response	OSG:CB:[Data]	Dh	+5	
H PHASE-COARSE	Request	QSG:CB	None		
query command	Response	OSG:CB:[Data]	3h	-5	
			₹	₹	
			8h	0	
			₹	₹	
			Dh	+5	
H PHASE-FINE	Control	OSG:CC:[Data]	1Ch	-100	※Only supported by the AK-UB300.
control command			₹	₹	
			80h	0	
			. ≀	₹	
	Response	OSG:CC:[Data]	E4h	+100	
H PHASE-FINE	Request	QSG:CC	None		
query command	Response	OSG:CC:[Data]	1Ch	-100	
			₹	₹	
			80h	0	
			₹	₹	
			E4h	+100	

Horizontal sync phase: +49

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OHP:3FF&res=1

[Response] AW-HE50 → PC

200 OK "OHP:3FF"

Subcarrier sync phase (coarse): 90°

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSC:0&res=1

[Response] AW-HE50 → PC

200 OK "OSC:0"

Subcarrier sync phase (fine): +127

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSN:3FF&res=1

[Response] AW-HE50 → PC

200 OK "OSN:3FF"

3.2.18. Output setting

These commands control the output settings of the camera and enable the current settings to be acquired.

The setting items include format, down-conversion mode and HDMI color components.

Table 3.2.18. Output setting

				lput setting	
Command name	Category	Command	Data value	Setting	Remarks
Format	Control	OSA:87:[Data]	In the case	of the AW-HE50	
control command			1h 2h	720/59.94p(59.94Hz) 720/50p(50Hz)	Data values with different field frequencies are
			4h	1080/59.94i(59.94Hz)	invalid (ER3 is returned).
			5h	1080/50i(50Hz)	The following formats are
			7h	1080/29.97PsF(59.94Hz)	supported by Ver.2 or a
			8h	1080/25PsF(50Hz)	later version.
			Bh	480/59.94i(59.94Hz)	1080/29.97PsF
			Dh	576/50i(50Hz)	1080/25PsF
			10h	1080/59.94p(59.94Hz)	1080/59.94p
			11h	1080/50p(50Hz)	1080/50p
				(31.1.2)	The following formats are
					supported only by the
					HDMI models.
					1080/59.94p
					1080/50p
			In the case	of the AW-HE60	
			1h	720/59.94p(59.94Hz)	Data values with different
			2h	720/50p(50Hz)	field frequencies are
			4h	1080/59.94i(59.94Hz)	invalid (ER3 is returned).
			5h	1080/50i(50Hz)	The following formats are
			7h	1080/29.97PsF(59.94Hz)	supported only by the
			8h	1080/25PsF(50Hz)	HDMI models.
			Bh	480/59.94i(59.94Hz)	1080/59.94p
			Dh	576/50i(50Hz)	1080/50p
			10h	1080/59.94p(59.94Hz)	480/59.94p
			11h	1080/50p(50Hz)	576/50p
			12h	480/59.94p(59.94Hz)	
			13h	576/50p(50Hz)	
				of the AW-HE120	D () ''' '''
			1h	720/59.94p(59.94Hz)	Data values with different
			2h	720/50p(50Hz)	field frequencies are
			4h 5h	1080/59.94i(59.94Hz)	invalid (ER3 is returned).
			Bh	1080/50i(50Hz) 480/59.94i(59.94Hz)	
			Dh	576/50i(50Hz)	
			10h	1080/59.94p(59.94Hz)	
			11h	1080/50p(50Hz)	
			12h	480/59.94p(59.94Hz)	
			13h	576/50p(50Hz)	
				of the AW-HE130	
			1h	720/59.94p(59.94Hz)	• When 480/59.94p is
			2h	720/50p(50Hz)	selected, the HDMI
			4h	1080/59.94i(59.94Hz)	output is set to
			5h	1080/50i(50Hz)	·
			7h	1080/29.97PsF(59.94Hz)	480/59.94p and SID
			8h	1080/25PsF(50Hz)	output will be 480/59.94i.
			Ah	1080/23.98PsF(59.94Hz)	
			10h	1080/59.94p(59.94Hz)	• When 576/50p is
			11h	1080/50p(50Hz)	selected, the HDMI

Command name	Category	Command	Data value	Setting	Remarks
			12h	480/59.94p(59.94Hz)	output is set to 576/50p
			13h	576/50p(50Hz)	and SID output will be
			14h 15h	1080/29.97p(59.94Hz) 1080/25p(50Hz)	576/50i.
			16h	1080/23.98p(59.94Hz)	
				of the AW-HR140	
			1h	720/59.94p(59.94Hz)	
			2h	720/50p(50Hz)	
			4h	1080/59.94i(59.94Hz)	
			5h 7h	1080/50i(50Hz) 1080/29.97PsF(59.94Hz)	
			8h	1080/25PsF(50Hz)	
			Ah	1080/23.98PsF(59.94Hz)	
			10h	1080/59.94p(59.94Hz)	
			11h	1080/50p(50Hz)	
			14h	1080/29.97p(59.94Hz)	
			15h 16h	1080/25p(50Hz) 1080/23.98p(59.94Hz)	
				of the AW-HE40/AW-UE70	
				[59.94Hz]	The formats marked with
			1h	720/59.94p	** are supported only by
			4h	1080/59.94i	the HDMI models.
			7h	1080/29.97PsF	
			10h	1080/59.94p **	The formats marked with
			14h	1080/29.97p	*** are supported only by
			17h	2160/29.97p ***	the AW-UE70.
			80h	Auto **	
					Auto is supported only by
			Ole	[50Hz]	control commands.
			2h 5h	720/50p	
			8h	1080/50i 1080/25PsF	
			11h	1080/50p **	
			15h	1080/25p	
			18h	2160/25p ***	
			80h	Auto **	
			In the case	of the AW-HE42	
				[59.94Hz]	The formats marked with
			1h	720/59.94p	** are supported only by
			4h	1080/59.94i	the HDMI models.
			7h	1080/29.97PsF	Auto is supported only by
			10h	1080/59.94p **	control commands.
			14h	1080/29.97p	
			80h	Auto **	
				 [50Hz]	
			2h	720/50p	
			5h	1080/50i	
			8h	1080/25PsF	
			11h	1080/50p **	
			15h	1080/25p	
			80h	Auto **	
			In the case	of the AK-UB300	
			00h	720/60p	
			01h	720/59.94p(59.94Hz)	
			02h	720/50p(50Hz)	

Command name	Category	Command	Data value	Setting	Remarks
			04h	1080/59.94i(59.94Hz)	
			05h	1080/50i(50Hz)	
			07h	1080/29.97PsF(59.94Hz)	
			08h	1080/25PsF(50Hz)	
			0Ah	1080/23.98PsF(59.94Hz)	
			10h	1080/59.94p(59.94Hz)	
			11h	1080/50p(50Hz)	
			16h	1080/23.98p(59.94Hz)	
			17h	2160/29.97p(59.94Hz)	
			18h	2160/25p(50Hz)	
			19h	2160/59.94p(59.94Hz)	
			1Ah	2160/50p(50Hz)	
			1Bh	2160/23.98p(59.94Hz)	
			1Ch	2160/29.97psF	
			1Dh	2160/25psF	
			1Eh	2160/23.98psF	
			1Fh	2160/60p	
			20h	1080/60p	
			44h	1080/59.94i CROP	
			45h	1080/50i CROP	
			50h	1080/59.94p CROP	
				(59.94Hz)	
			51h	1080/50p CROP (50Hz)	
				of the AW-UE150	
			1h	720/59.94p	
			2h	720/50p	
			4h	1080/59.94i	
			5h	1080/50i	
			7h	1080/29.97psF	
			8h	1080/25psF	
			Ah	1080/23.98psF	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p (over	
			476	59.94i/p)	
			17h	2160/29.97p	
			18h	2160/25p	
			19h	2160/59.94p	
			1Ah	2160/50p	
			1Bh	2160/23.98p	
			21h	2160/24p	
			22h	1080/24p	
	Resnance	OSA:87:[Data]	23h	1080/23.98p	
	Response	OSA:87:[<i>Data</i>]		1	

Command name	Category	Command	Data value	Setting	Remarks		
Format	Request	QSA:87	None				
query command	Response	OSA:87:[Data]	In the case of the AW-HE50				

Command name	Category	Command	Data value	Setting	Remarks
			1h	720/59.94p(59.94Hz)	
			2h	720/50p(50Hz)	
			4h	1080/59.94i(59.94Hz)	
			5h	1080/50i(50Hz)	
			7h	1080/29.97PsF(59.94Hz)	
			8h	1080/25PsF(50Hz)	
			Bh Dh	480/59.94i(59.94Hz) 576/50i(50Hz)	
			10h	1080/59.94p(59.94Hz)	
			11h	1080/50p(50Hz)	
				ase of the AW-HE60	
			1h	720/59.94p(59.94Hz)	
			2h	720/50p(50Hz)	
			4h	1080/59.94i(59.94Hz)	
			5h	1080/50i(50Hz)	
			7h	1080/29.97PsF(59.94Hz)	
			8h	1080/25PsF(50Hz)	
			Bh	480/59.94i(59.94Hz)	
			Dh	576/50i(50Hz)	
			10h	1080/59.94p(59.94Hz)	
			11h	1080/50p(50Hz)	
			12h	480/59.94p(59.94Hz)	
			13h	576/50p(50Hz)	
			1h the c	ase of the AW-HE120 720/59.94p(59.94Hz)	
			2h	720/59.94p(59.94H2) 720/50p(50Hz)	
			4h	1080/59.94i(59.94Hz)	
			5h	1080/50i(50Hz)	
			Bh	480/59.94i(59.94Hz)	
			Dh	576/50i(50Hz)	
			10h	1080/59.94p(59.94Hz)	
			11h	1080/50p(50Hz)	
			12h	480/59.94p(59.94Hz)	
			13h	576/50p(50Hz)	
				ase of the AW-HE130	
			1h	720/59.94p(59.94Hz)	 When 480/59.94p is
			2h	720/50p(50Hz)	selected, the HDMI
			4h	1080/59.94i(59.94Hz)	output is set to
			5h 7h	1080/50i(50Hz) 1080/29.97PsF(59.94Hz)	480/59.94p and SID
			8h	1080/25PsF(50Hz)	output will be
			Ah	1080/23.98PsF(59.94Hz)	480/59.94i.
			10h	1080/59.94p(59.94Hz)	 When 576/50p is
			11h	1080/50p(50Hz)	selected, the HDMI
			12h	480/59.94p(59.94Hz)	output is set to 576/50p
			13h	576/50p(50Hz)	and SID output will be
			14h	1080/29.97p(59.94Hz)	576/50i.
			15h	1080/25p(50Hz)	
			16h	1080/23.98p(59.94Hz)	
				ase of the AW-HR140	
			1h	720/59.94p(59.94Hz)	
			2h	720/50p(50Hz)	
			4h	1080/59.94i(59.94Hz)	
			5h	1080/50i(50Hz)	
			7h	1080/29.97PsF(59.94Hz)	
			8h Ah	1080/25PsF(50Hz) 1080/23.98PsF(59.94Hz)	
			10h	1080/59.94p(59.94Hz)	
			10h	1080/59.94p(59.94h2) 1080/50p(50Hz)	
			14h	1080/29.97p(59.94Hz)	

1h 720/59.94p with ** are supported only by the HDMI nolloys 9.94i only by the HDMI nolloys 9.94i only by the HDMI nolloys 9.94p ** 10h 1080/29.97p ** 11h 1080/29.97p ** 15h 1080/50i 8h 1080/50i 8h 1080/59s ** 11h 1080/59s ** 15h 1080/59 ** 15h 1080/59 ** 15h 1080/59 ** 15h 1080/6p ** 15h 1080/6p ** 10h 720/60p ** 11h 1080/59.94p(59.94Hz)	Command name	Category	Command	Data value	Setting	Remarks
In the case of the AW-HE40/AW-UE70						
The formats marke with "* are support only by the HDMI models.					,	
1h						The formats marked
## 1080/59.94i				1h		
7h 1080/29.97PsF 10h 1080/29.97p 11h 1080/29.97p 17h 2160/29.97p 17h 2160/29.99h 21h 2160/23.98p(59.94Hz) 21h 2160/29.97p(59.94Hz) 21h 2160/29.99p(59.94Hz) 21h 2160/29.99p(59.99Hz) 21h 2160/29.99p(4h	1080/59.94i	
10h 1080/59.94p ** 14h 1080/29.97p ** 17h 2160/29.97p ***				7h	1080/29.97PsF	
17h 2160/29.97p *** * The formats marke with *** are support only by the AW-UE 2h					l •	
Section Sect						• The formate marked
[50Hz] 2h 720/50p 5h 1080/55i 8h 1080/25PsF 11h 1080/25p *** 11sh 1080/25p *** 11sh 2160/25p *** 1					•	
2h						
5h 1080/50i 8h 1080/25PsF 11h 1080/25p *** 15h 1080/25p 18h 2160/25p *** In the case of the AW-HE42				2h		
8h 1080/25PsF 11h 1080/50p ** 1080/50p ** 11h 1080/50p ** 12160/25p 12h 2160/25p *** In the case of the AW-HE42					1	
11h 1080/50p ** 115h 1080/25p *** 118h 2160/25p *** In the case of the AW-HE42 [59,94Hz]						
15h						
18h 2160/25p*** In the case of the AW-HE42					1080/25p	
Sp.94Hz						
1h 720/59.94p with ** are supported only by the HDMI noll of 1080/29.97PsF 10h 1080/29.97PsF 10h 1080/29.97P 10h 1080/29.97P 10h 1080/29.97P 10h 1080/25.95F 1080/50i 8h 1080/50i 8h 1080/50p ** 15h 1080/25PsF 11h 1080/25PsF 11h 1080/25PsF 11h 1080/25PsF 11h 1080/25PsF 11h 1080/25PsF 1090/25PsF 1090/25PsF 1090/25PsF 1090/25PsF 1090/25PsF 1090/25PsF 1090/25PsF 1090/25PsF(59.94Hz) 11h 1080/59.94p(59.94Hz) 11h 1080/59.94p(59.94Hz) 11h 1080/59.94p(59.94Hz) 11h 1080/59.94p(59.94Hz) 11h 1080/59.94p(59.94Hz) 11h 2160/25p(50Hz) 11h 2160/25p(50Hz) 11h 2160/25p(50Hz) 11h 2160/59(59.94Pc) 1210/25.94p(59.94Hz) 11h 2160/59(59.94Pc) 1210/25.94p(59.94Hz) 11h 2160/59(50Hz)				In the c		
4h 1080/59.94i only by the HDMI models 7h 1080/29.97PsF only by the HDMI models 14h 1080/29.97p				l		The formats marked
7h						with ** are supported
10h 1080/59.94p ** 14h 1080/29.97p [50Hz] 2h 720/50p 5h 1080/50i 8h 1080/25PsF 11h 1080/50p ** 15h 1080/5p ** 15h 1080/5p In the case of the AK-UB300 00h 720/60p 01h 720/50.94p(59.94Hz) 02h 720/50p(50Hz) 04h 1080/59.94i(59.94Hz) 05h 1080/50i(50Hz) 07h 1080/29.97PsF(59.94Hz) 07h 1080/29.97PsF(59.94Hz) 10h 1080/59.94p(59.94Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/50.94p(59.94Hz) 11h 1080/50.94p(59.94Hz) 11h 1080/50.94p(59.94Hz) 11h 1080/50.94p(59.94Hz) 11h 1080/23.98p(59.94Hz) 11h 1080/23.98p(59.94Hz) 11h 1080/23.98p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/59.94p(59.94Hz) 11h 2160/59.94p(59.94Hz) 11h 2160/59.94p(59.94Hz) 11h 2160/59.94p(59.94Hz) 11h 2160/59.94p(59.94Hz)						
14h 1080/29.97p [50Hz] 2h 720/50p 5h 1080/50i 8h 1080/25PsF 11h 1080/25p In the case of the AK-UB300 00h 720/60p 01h 720/50.94h(59.94Hz) 02h 720/50.9(50Hz) 04h 1080/25.9sF(50Hz) 07h 1080/29.97PsF(59.94Hz) 08h 1080/25.9sF(50Hz) 08h 1080/25.9sF(50Hz) 10h 1080/29.97PsF(59.94Hz) 10h 1080/29.97PsF(59.94Hz) 10h 1080/29.97PsF(59.94Hz) 11h 1080/59.94p(59.94Hz) 11h 1080/50.9(50Hz) 11h 1080/50.9(50Hz) 11h 1080/50.9(50Hz) 11h 1080/50.9(50Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/50.9(50Hz) 11h 2160/50.94p(59.94Hz) 11h 2160/50.94p(59.94Hz) 11h 2160/50.94p(59.94Hz) 11h 2160/50.94p(59.94Hz)						models
Color Colo						
2h 720/50p 5h 1080/50i 8h 1080/25PsF 11h 1080/50p *** 15h 1080/25p In the case of the AK-UB300 00h 720/60p 01h 720/59.94p(59.94Hz) 02h 720/50p(50Hz) 04h 1080/59.94i(59.94Hz) 05h 1080/50i(50Hz) 07h 1080/29.97PsF(59.94Hz) 08h 1080/25PsF(50Hz) 0Ah 1080/23.98PsF(59.94Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/59(50Hz) 11h 1080/59(50Hz) 16h 1080/23.98p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz)					-	
2h 720/50p 5h 1080/50i 8h 1080/25PsF 11h 1080/50p *** 15h 1080/25p In the case of the AK-UB300 00h 720/60p 01h 720/59.94p(59.94Hz) 02h 720/50p(50Hz) 04h 1080/59.94i(59.94Hz) 05h 1080/50i(50Hz) 07h 1080/29.97PsF(59.94Hz) 08h 1080/25PsF(50Hz) 0Ah 1080/23.98PsF(59.94Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/50p(50Hz) 11h 1080/50p(50Hz) 11h 1080/29.97p(59.94Hz) 11h 1080/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz) 11h 2160/29.97p(59.94Hz)					[50Hz]	
8h 1080/25PsF 11h 1080/50p ** 15h 1080/25p In the case of the AK-UB300 00h 720/60p 01h 720/50p,94p(59.94Hz) 02h 720/50p(50Hz) 04h 1080/59.94i(59.94Hz) 05h 1080/50i(50Hz) 07h 1080/29.97PsF(59.94Hz) 08h 1080/25PsF(50Hz) 0Ah 1080/25PsF(50Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/50p(50Hz) 11h 1080/50p(50Hz) 11h 1080/50p(50Hz) 16h 1080/23.98p(59.94Hz) 17h 2160/29.97p(59.94Hz) 18h 2160/5p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/50p(50Hz)				2h		
11h 1080/50p ** 15h 1080/25p In the case of the AK-UB300 00h 720/60p 01h 720/59,94p(59,94Hz) 02h 720/50p(50Hz) 04h 1080/59,94i(59,94Hz) 05h 1080/50i(50Hz) 07h 1080/29,97PsF(59,94Hz) 08h 1080/25PsF(50Hz) 0Ah 1080/23,98PsF(59,94Hz) 10h 1080/59,94p(59,94Hz) 11h 1080/59,94p(59,94Hz) 11h 1080/23,98p(59,94Hz) 11h 2160/29,97p(59,94Hz) 18h 2160/25p(50Hz) 19h 2160/59,94p(59,94Hz) 11Ah 2160/50p(50Hz) 11Ah 2160/50p(50Hz) 11Bh 2160/23,98p(59,94Hz)				5h	1080/50i	
15h 1080/25p						
In the case of the AK-UB300 00h 720/60p 01h 720/59.94p(59.94Hz) 02h 720/50p(50Hz) 04h 1080/59.94i(59.94Hz) 05h 1080/50i(50Hz) 07h 1080/29.97PsF(59.94Hz) 08h 1080/25PsF(50Hz) 0Ah 1080/23.98PsF(59.94Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/50p(50Hz) 16h 1080/23.98p(59.94Hz) 17h 2160/29.97p(59.94Hz) 18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/50p(50Hz)						
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04h 1080/59.94i(59.94Hz) 05h 1080/50i(50Hz) 07h 1080/29.97PsF(59.94Hz) 08h 1080/25PsF(50Hz) 0Ah 1080/23.98PsF(59.94Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/50p(50Hz) 16h 1080/23.98p(59.94Hz) 17h 2160/29.97p(59.94Hz) 18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)					- '	
05h						
07h					` '	
08h					, , ,	
0Ah 1080/23.98PsF(59.94Hz) 10h 1080/59.94p(59.94Hz) 11h 1080/50p(50Hz) 16h 1080/23.98p(59.94Hz) 17h 2160/29.97p(59.94Hz) 18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)					` ,	
10h 1080/59.94p(59.94Hz) 11h 1080/50p(50Hz) 16h 1080/23.98p(59.94Hz) 17h 2160/29.97p(59.94Hz) 18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)					, , ,	
11h					` ,	
16h 1080/23.98p(59.94Hz) 17h 2160/29.97p(59.94Hz) 18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)					1	
17h 2160/29.97p(59.94Hz) 18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)						
18h 2160/25p(50Hz) 19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)					,	
19h 2160/59.94p(59.94Hz) 1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)					. ` ,	
1Ah 2160/50p(50Hz) 1Bh 2160/23.98p(59.94Hz)						
1Bh 2160/23.98p(59.94Hz)					- '	
					. , , ,	
				1Ch	2160/29.97psF	
1Dh 2160/25psF					-	
1Eh 2160/23.98psF						
1Fh 2160/60p					-	
20h 1080/60p					•	
44h 1080/59.94i CROP					•	
45h 1080/50i CROP						
50h 1080/59.94p CROP(59.94Hz)						

Command name	Category	Command	Data value	Setting	Remarks
			51h	1080/50p CROP(50Hz)	
				ase of the AW-UE150	T
			01h	720/59.94p	
			02h	720/50p	
			04h 05h	1080/59.94i 1080/50i	
			07h	1080/29.97psF	
			0711 08h	1080/25psF	
			0Ah	1080/23.98psF	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p(over 59.94i/p)	
			17h	2160/29.97p	
			18h	2160/25p	
			19h	2160/59.94p	
			1Ah	2160/50p	
			1Bh	2160/23.98p	
			21h	2160/24p	
			22h	1080/24p	
			23h	1080/23.98p	
Format (SDI)	Control	OSD:B9:[Data]	In the c	ase of the AW-UE70/AW-HE42	
Control command				[59.94Hz]	
			1h	720/59.94p	
			4h	1080/59.94i	
			7h	1080/29.97psF	
			10h	1080/59.94p	
			14h	1080/29.97p	
				[50Hz]	
			2h	720/50p	
			5h	1080/50i	
			8h	1080/25psF	
			11h	1080/50p	
			15h	1080/25p	
	Response	OSD:B9:[Data]		·	
Format (SDI)	Request	QSD:B9		ase of the AW-UE70/AW-HE42	
Query command			None		
	Response	OSD:B9:[Data]	4.	[59.94Hz]	
			1h	720/59.94p	
			4h 7h	1080/59.94i 1080/29.97psF	
			10h	1080/59.94p	
			14h	1080/29.97p	
				[50Hz]	
			2h	720/50p	
1			5h	1080/50i	
1			8h	1080/25psF	
1			11h	1080/50p	1
			15h	1080/25p	

Command name	Category	Command	Data value	Setting	Remarks
Down-conversion	Control	OSE:20:[Data]	0	SideCut	※ Not supported by the
mode			1	Squeeze	AK-UB300/AW-HR140
control command			2	LetterBOX	/AW-UE150.
	D	005-00-10-4-1			
Down-conversion	Response	OSE:20:[Data]	Nama		NAT COLUMN
mode	Request Response	QSE:20 OSE:20:[<i>Data</i>]	None 0	SideCut	※ Not supported by the
query command	Response	OSE.20.[Data]	1	Squeeze	AK-UB300/AW-HR140 /AW-UE150.
4			2	LetterBOX	/AVV-UE 150.
HDMI color	Control	OSE:68:[Data]		ase of the AW-HE50/AW-HE60/AV	N-HE120
component			0	RGB-NOR	
control command			1	RGB-ENH	
			2	YCbCr422	
			3	YCbCr444	
	Response	OSE:68:[Data]			
			In the c	ase of the AW-UE150	
			2	YCbCr422	
			4	YPbPr420	
HDMI color	Request	QSE:68	None		
component	Response	OSE:68:[Data]		ase of the AW-HE50/AW-HE60/AN	N-HE120
query command			0	RGB-NOR	
			1	RGB-ENH	
			2	YCbCr422	
			3	YCbCr444 case of the AW-UE150	
			2	YCbCr422	
			4	YPbPr420	
Analog	Control	OSD:65:[Data]	00	YPbPr	※Only supported by the
component output	00	002.00.[24.4]	01	RGB	AW-HE120.
control command	Response	OSD:65:[Data]			
Analog	Request	QSD:65	None		※Only supported by the
component output	Response	OSD:65:[Data]	00	YPbPr	AW-HE120.
query command			01	RGB	
3G SDI Out	Control	OSI:29:[Data]	0	Level A	※Only supported by the
control command			1	Level B	AW-HR140/AW-UE150
	Response	OSI:29:[Data]			
3G SDI Out	Request	QSI:29	None		*Only supported by the
query command	Response	OSI:29:[Data]	0	Level A	AW-HR140/AW-UE150
DO 0:-4	0 t 1	001-00-10-4-1	1	Level B	WOods a comment address the
DC Out control command	Control	OSI:2B:[Data]	0	Off On	※Only supported by the AW-HR140
control command	Response	OSI:2B:[Data]	- '	Oll	AVV-FIX 140
DC Out	Request	QSI:2B	None		※Only supported by the
query command	Response	OSI:2B:[Data]	0	Off	AW-HR140
quory communa	response	OO1.2B.[Bata]	1	On	7.07 1.1.(1.10
12G SDI/Fiber Out	Control	OSJ:1E:[Data]		ase of the AW-UE150	
Output Format	Response	OSJ:1E:[Data]	01h	720/59.94p	
control command	·		02h	720/50p	
			04h	1080/59.94i	
			05h	1080/50i	
			07h	1080/29.97PsF	
			08h	1080/25PsF	
			0Ah	1080/23.98PsF	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p(over 59.94i/p)	

Command name	Category	Command	Data value	Setting	Remarks
			17h	2160/29.97p	
			18h	2160/25p	
			19h	2160/59.94p	
			1Ah	2160/50p	
			1Bh	2160/23.98p	
			21h	2160/24p	
			22h 23h	1080/24p 1080/23.98p	
12G SDI/Fiber Out	Request	QSJ:1E	None	1060/23.96р	
Output Format	Response	OSJ:1E:[Data]		ase of the AW-UE150	
query command	responde	000.12.[Bata]	01h	720/59.94p	
4			02h	720/50p	
			04h	1080/59.94i	
			05h	1080/50i	
			07h	1080/29.97PsF	
			08h	1080/25PsF	
			0Ah	1080/23.98PsF	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p(over 59.94i/p)	
			17h	2160/29.97p	
			18h 19h	2160/25p 2160/59.94p	
			1911 1Ah	2160/59.94p	
			1Bh	2160/23.98p	
			21h	2160/24p	
			22h	1080/24p	
			23h	1080/23.98p	
12G SDI/Fiber Out	Control	OSJ:1F:[Data]	0h	SDR	※Only supported by the
HDR Output	Response	OSJ:1F:[Data]	1h	HDR(2020)	AW-UE150
select			2h	HDR(709)	
control command				` ,	
12G SDI/Fiber Out	Request	QSJ:1F	None		
HDR Output	Response	OSJ:1F:[Data]	0h	SDR	
select			1h	HDR(2020)	
query command			2h	HDR(709)	
12G SDI/Fiber Out	Control	OSJ:20:[Data]	0h	Level A	※Only supported by the
/ 3G SDI Out	Response	OSJ:20:[Data]	1h	Level B	AW-UE150
control command	Danisat	00 1:00	Nisas		-
12G SDI/Fiber Out / 3G SDI Out	Request	QSJ:20	None	11 4	-
query command	Response	OSJ:20:[Data]	0h	Level A Level B	
3G SDI Out	Control	OSJ:21:[Data]	1h	ase of the AW-UE150	
Output Format	Response	OSJ:21:[Data]	01h	720/59.94p	
control command	Response	033.21.[Data]	02h	720/59.94p 720/50p	
oona or oon mana			04h	1080/59.94i	
			05h	1080/50i	
			07h	1080/29.97PsF	
			08h	1080/25PsF	
			0Ah	1080/23.98PsF	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p (over 59.94i/p)	
			22h	1080/24p	
			23h	1080/23.98p	

Command name	Category	Command	Data value	Setting	Remarks
3G SDI Out	Request	QSJ:21	None		
Output Format	Response	OSJ:21:[Data]		ase of the AW-UE150	
query command			01h 02h	720/59.94p	
			02h 04h	720/50p 1080/59.94i	
			05h	1080/59:941 1080/50i	
			07h	1080/29.97PsF	
			08h	1080/25PsF	
			0Ah	1080/23.98PsF	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p (over 59.94i/p)	
			22h	1080/24p	
00.001.0.4	0 1 1	0010010 + 1	23h	1080/23.98p	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3G SDI Out	Control	OSJ:22:[Data]	0h	SDR	*Only supported by the
HDR Output Select	Response	OSJ:22:[Data]	1h	HDR(2020)	AW-UE150
control command			2h	HDR(709)	
3G SDI Out	Request	QSJ:22	None		_
HDR Output	Response	OSJ:22:[Data]	0h	SDR	1
Select	Тоороноо	000.22.[Data]	1h	HDR(2020)	
query command			2h	HDR(709)	
MONI Out	Control	OSJ:23:[Data]		ase of the AW-UE150	
Output Format	Response	OSJ:23:[Data]	01h	720/59.94p	
control command	responde	000.20.[Bata]	02h	720/50p	
			04h	1080/59.94i	
			05h	1080/50i	
			07h	1080/29.97PsF	
			08h	1080/25PsF	
			0Ah	1080/23.98PsF	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p (over 59.94i/p)	
			22h	1080/24p	
MONI Out	Poguest	QSJ:23	23h None	1080/23.98p	
Output Format	Request Response	OSJ:23:[Data]		l ase of the AW-UE150	
query command	Response	000.20.[Data]	01h	720/59.94p	
quory communa			02h	720/50p	
			04h	1080/59.94i	
			05h	1080/50i	
			07h	1080/29.97PsF	
			08h	1080/25PsF	
			0Ah	1080/23.98PsF	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p (over 59.94i/p)	
			22h	1080/24p	
MONI Out	Control	OS 1:24:[Data]	23h	1080/23.98p	WOnly ounnaried by the
HDR Output	Control	OSJ:24:[Data]	0h	SDR	※Only supported by the AW-UE150
Select	Response	OSJ:24:[Data]	1h	HDR(2020)	AVV-UE 10U
control command			2h	HDR(709)	
MONI Out	Request	QSJ:24	None		
HDR Output	Response	OSJ:24:[Data]	0h	SDR	1
Select	. 100001100		1h	HDR(2020)	
query command			2h	HDR(709)	
1401 y John Maria			∠n	ן חטא(109)	1

Command name	Category	Command	Data value	Setting	Remarks
HDMI Out	Control	OSJ:25:[Data]	In the c	ase of the AW-UE150	
Output Format	Response	OSJ:25:[Data]	01h	720/59.94p	
control command			02h	720/50p	
			04h	1080/59.94i	
			05h	1080/50i	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p(over 59.94i/p)	
			17h	2160/29.97p	
			18h	2160/25p	
			19h	2160/59.94p	
			1Ah	2160/50p	
			1Bh	2160/23.98p	
			21h	2160/24p	
			22h	1080/24p	
			23h	1080/23.98p	
HDMI Out	Request	QSJ:25	None		
Output Format	Response	OSJ:25:[Data]	In the c	ase of the AW-UE150	
query command			01h	720/59.94p	
			02h	720/50p	
			04h	1080/59.94i	
			05h	1080/50i	
			10h	1080/59.94p	
			11h	1080/50p	
			14h	1080/29.97p	
			15h	1080/25p	
			16h	1080/23.98p(over 59.94i/p)	
			17h	2160/29.97p	
			18h	2160/25p	
			19h	2160/59.94p	
			1Ah	2160/50p	
			1Bh	2160/23.98p	
			21h	2160/24p	
			22h	1080/24p	
			23h	1080/23.98p	
HDMI Out	Control	OSJ:26:[Data]	0h	SDR	※Only supported by the
HDR Output	Response	OSJ:26:[Data]	1h	HDR(2020)	AW-UE150
Select		- >	2h	HDR(709)	
control command				1.2.4(100)	
HDMI Out	Request	QSJ:26	None		1
HDR Output	Response	OSJ:26:[Data]	0h	SDR	1
Select			1h	HDR(2020)	
query command			2h	HDR(709)	

•Format: 720/59.94p

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:87:01&res=1

[Response] AW-HE50 → PC 200 OK "OSA:87:01"

•Down-conversion mode: Squeeze

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:20:1&res=1

[Response] AW-HE50 → PC

200 OK "OSE:20:1"

HDMI color components: RGB-NOR
 [Control] PC → AW-HE50H
 http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:68:0&res=1

 [Response] AW-HE50H → PC
 200 OK "OSE:68:0"

Analog component output: RGB
 [Control] PC → AW-HE120
 http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:65:01&res=1
 [Response] AW-HE120 → PC
 200 OK "OSD:65:01"

3.2.19. Preset

3.2.19.1. Preset playback setting

These commands control the playback when the presets of the camera are to be played back and enable the current settings to be acquired.

Table 3.2.19.1. Preset playback range setting

Command name	Category	Command	Data value	Setting	Remarks
Preset playback	Control	OSE:71:[<i>Data</i>]	0	Mode A	Not supported by the AK-UB300.
range	Control	OOL.11.[Bala]	1	Mode R	A Not supported by the Air Oboot.
control command	Response	OSE:71:[<i>Data</i>]	2	Mode C	
Preset playback	Request	QSE:71	None		※ Not supported by the AK-UB300.
range	Response	OSE:71:[Data]	0	Mode A]
query command	•		1	Mode B	
			2	Mode C	
Preset zoom mode	Control	OSE:7D:[Data]	0	Mode A	※ Only supported by the
control command			1	Mode B	AW-HR140/AW-UE150.
					Mode A: Perform the zoom
					operation in line with the pan/tilt
					operation. Mode B :. Perform the zoom
					operation quicker than pan/tilt
					operation.
	Response	OSE:7D:[Data]	-		oporation.
Preset zoom mode	Request	QSE:7D	None		※ Only supported by the
query command	Response	OSE:7D:[Data]	0	Mode A	AW-HR140/AW-UE150.
	•		1	Mode B	
Preset Speed Unit	Control	OSJ:29:[Data]	0	Speed Table	※Only supported by the
control command	Response	OSJ:29:[Data]	1	Time	AW-UE150
Preset Speed Unit	Request	QSJ:29	None		
query command	Response	OSJ:29:[Data]	0	Speed Table	
			1	Time	
Preset Crop	Control	OSJ:2A:[Data]	0	Off	*Only supported by the
control command	Response	OSJ:2A:[Data]	1	On	AW-UE150
Preset Crop	Request	QSJ:2A	None	0"	-
query command	Response	OSJ:2A:[Data]	0	Off	
Preset Iris	Control	OS I-EB-IDatal	0	On Off	*Only supported by the
control command	Response	OSJ:5B:[Data] OSJ:5B:[Data]	1 1	On	※Only supported by the AW-UE150
Preset Iris	Reguest	QSJ:5B	None	OII	AVV-0L 100
query command	Response	OSJ:5B:[Data]	0	Off	1
	I VESPOUSE	CCU.JD.[Dala]	0	J 011	1

Example of use) Preset playback range: Mode A

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:71:0&res=1

[Response] AW-HE50 → PC

200 OK "OSE:71:0"

3.2.19.2. Preset name and thumbnail setting

These commands control the playback when the presets of the camera are to be played back and enable the current settings to be acquired.

Table 3.2.19.2. Preset playback range setting

0	0-1	Campus and			
Command name	Category	Command	Data value	Setting	Remarks
Preset name set	Control	OSJ:35:[Data1]:[[Data1]	[Data1]	※Only supported by the
control command	D	Data2]	00	Preset001	AW-UE150
	Response	OSJ:35:[Data1]:[99	- Preset100	
		Data2]	[Data2]	[Data2]	
			XXXXXXXXXXX	Preset Name	
			XXXX	(15	
				Charactors)	
Preset name set	Request	QSJ:35:[Data1]	None		※Only supported by the
query command	Response	OSJ:35:[Data1]:[[Data1]	[Data1]	AW-UE150
		Data2]	00	Preset001	
			~	-	
			99	Preset100	
			[Data2] Xxxxxxxxxx	[Data2] Preset Name	
			XXXXX	(15	
			XXXX	Charactors)	
Preset name	Control	OSJ:36:[Data1]	00	Preset001	※Only supported by the
delete	Response	OSJ:36:[Data1]	~	-	AW-UE150
control command	•		99	Preset100	
Preset name	Control	OSJ:37	None		※Only supported by the
delete (all)	Response	OSJ:37			AW-UE150
control command	Cantral	OC 1:20:[Dete 1]	00	Preset001	₩ Only augmented by the
Preset thumbnail set	Control Response	OSJ:39:[Data1] OSJ:39:[Data1]	~	- Preselou i	※Only supported by the AW-UE150
control command	rtesponse	000.09.[Data 1]	99	Preset100	7.WV 0E100
Preset thumbnail	Control	OSJ:3A:[Data1]	00	Preset001	※Only supported by the
delete	Response	OSJ:3A:[Data1]	~	-	AW-UE150
control command	•		99	Preset100	
Preset thumbnail	Control	OSJ:3B	None		※Only supported by the
delete (all)	Response	OSJ:3B			AW-UE150
control command Preset name	Request	QSJ:3C:[Data1]	[Data1]	[Data1]	※Only supported by the
/thumbnail counter	Response	OSJ:3C:[Data1]:[00h	Preset	AW-UE150
query command	response	Data2]	01h	001-009	7.00
		,	02h	Preset	Increment the corresponding bit by
			03h	010-018	1 when the preset name or
			04h	Preset	thumbnail is updated
			05h	019-027	
			06h	Preset	
			07h 08h	028-036	
			09h	Preset 037-045	
			0Ah	Preset	
			0Bh	046-054	
			[Data2]	Preset	
			000000000h	055-063	
			-	Preset	
			FFFFFFFF	064-072	
			h	Preset	
				073-081	
				Preset	

Command name	Category	Command	Data value	Setting	Remarks
				082-090 Preset 091-099 Preset 100 [Data2] 000000000h - FFFFFFFF	
Preset Thumbnail	Control	OSJ:2B:[Data]	0	Off	XOnly supported by the
control command	Response	OSJ:2B:[Data]	1	On	AW-UE150
Preset Thumbnail	Request	QSJ:2B	None		
query command	Response	OSJ:2B:[Data]	0	Off	
			1	On	
Preset Name	Control	OSJ:2C:[Data]	0	Reset	※Only supported by the
control command	Response	OSJ:2C:[Data]	1	Hold	AW-UE150
Preset Name	Request	QSJ:2C	None		
query command	Response	OSJ:2C:[Data]	0	Reset	
			1	Hold	

Example of use) Set preset name: ABCDE

[Control] PC → AW-UE150

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:35:00:ABCDE &res=1

[Response] AW-UE150 → PC 200 OK "OSJ:35:00:ABCDE

%[Data2] is fixed to 15 characters. If the preset name to be set is less than 15 characters please fill in the space

Example of use) Delete Preset name: Preset 01

[Control] PC \rightarrow AW-UE150

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:3A:00&res=1

[Response] AW-UE150 \rightarrow PC 200 OK "OSJ:3A:00"

3.2.20. Digital zoom settings

These commands control the digital zoom of the camera, and they enable the digital zoom settings to be acquired.

Table 3.2.20. Digital zoom settings

	_		.0. Digital 20		
Command name	Category	Command	Data value	Setting	Remarks
Digital zoom	Control	OSE:70:[<i>Data</i>]	0	Disable	※ Not supported by the AK-UB300.
On/Off	Response	OSE:70:[<i>Data</i>]	1	Enable	
control command	5 .	005.70			WALL ALL III ALCHEOLO
Digital zoom On/Off	Request	QSE:70	None	Districts	※ Not supported by the AK-UB300.
	Response	OSE:70:[Data]	0	Disable Enable	
query command Digital zoom	Control	OSE:7A:[<i>Data</i>]	02	x2	This command enables the
maximum	Response	OSE:7A:[Data]	} 02	\^2 \}	maximum digital zoom
magnification	rtesponse	OOL.TA.[Data]	10	x10	magnification to be set.
control command			1	₹	
			16	x16	* Only supported by the
Digital zoom	Request	QSE:7A	None		AW-HE120/AW-HE130/AW-HE40/
maximum	Response	OSE:7A:[Data]	02	x2	AW-UE70/AW-HE42/AW-HR140/A
magnification			₹	₹	W-UE150.
query command			10	x10	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}	*Max x12 magnification
			16	x16	for AW-UE70/AW-HE42
					*Max x10 magnification for
					AW-HE120/AW-HE130/AW-HR140
					/AW-UE150.
Digital zoom	Control	OSE:76:[Data]	0100	x1.00	This command enables the digital
magnification			₹	₹	zoom magnification to be set.
control command			1000	x10.00	
		00==01= / 1	. ≀	₹	※ Max x12 magnification for
	Response	OSE:76:[Data]	1600	x16.00	AW-UE70/AW-HE42
Digital zoom	Request	QSE:76	None	4.00	
magnification	Response	OSE:76:[Data]	0100	x1.00	Max x10 magnification for
query command				\	AW-UE150
			1000	₹10.00	Not supported by the AK-UB300.
			1600	x16.00	
Digital Extender	Control	ODE:[Data]	0	Off	※Only supported by the
control command	Response	ODE:[Data]	1	On	AW-HE130/AW-HE40/AW-UE70/A
Digital Extender	Request	QDE	None		W-HE42/AW-HR140/AW-UE150/A
query command	Response	ODE:[Data]	0	Off	K-UB300.
	_		1	On	
Digital Extender	Control	OSJ:4E:[Data]	0	OFF	*Only supported by the
control command	Response	OSJ:4E:[Data]	1	x1.4	AW-UE150
Divital Est	D	001.45	2	x2.0	•OSJ:4E is used instead of ODE in
Digital Extender	Request	QSJ:4E	None	OFF	V2.00 or later of AW-UE150.
query command	Response	OSJ:4E:[Data]	0	OFF	ODE:On work as "x1.4".
			1	x1.4	
Digital Extends:	l		2	x2.0	
		OCD-D0-ID-4-1	Λ .	V4 4	* ^ ~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Digital Extender		OSD:B8:[Data]	0	x1.4	*Only AW-UE70/AW-HE42
magnification control command	Control	OSD:B8:[Data]	0 1 2	x1.4 x2.0 x4.0	*Only AW-UE70/AW-HE42 supported

Command name	Category	Command	Data value	Setting	Remarks
	Response	OSD:B8:[Data]	3	x6.0	
			4	x8.0	
Digital Extender	Request	QSD:B8	None		
magnification	Response	OSD:B8:[Data]	0	x1.4	
query command	-		1	x2.0	
			2	x4.0	
			3	x6.0	
			4	x8.0	
iZoom	Control	OSD:B3:[Data]	0	Off	※Only supported by the
control command	Response	OSD:B3:[Data]	1	On	AW-HE40/
iZoom	Request	QSD:B3	None		AW-UE70/AW-HE42/AW-UE150.
query command	Response	OSD:B3:[Data]	0	Off	
			1	On	
Preset Digital	Control	OSE:7C:[Data]	0	Off	※ Only supported by the
Extender Enable	Response	OSE:7C:[Data]	1	On	AW-HE130(V2.00 or a
control command					later)/AW-HR140/AW-UE150.
Preset Digital	Request	QSE:7C	None		
Extender Enable	Response	OSE:7C:[Data]	0	Off	
query command			1	On	
Zoom	Request	QSJ:3D	None		※Only supported by the
magnification	Response	OSJ:3D:[Data]	000h	0	AW-UE150
query command			~	~	
			3E7h	999	

·Digital zoom: Enable

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:70:1&res=1

[Response] AW-HE50 → PC

200 OK "OSE:70:1"

Maximum digital zoom magnification: 10×

[Control] $PC \rightarrow AW-HE120$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7A:10&res=1

[Response] AW-HE120 → PC

200 OK "OSE:7A:10"

Digital zoom magnification: 1×

[Control] $PC \rightarrow AW-HE120$

http://192.168.0.10/cgi-bin/aw cam?cmd=OSE:76:0100&res=1

[Response] AW-HE120 → PC

200 OK "OSE:76:0100"

3.2.21. Camera information acquisition

These commands enable the current camera information of the camera to be acquired.

Table 3.2.21. Camera information acquisition

		labio dizizii. Gai	Camera information acquisition					
Command name	Category	Command	Data value	Setting	Remarks			
Model number	Request	QID	None					
query command	Response	OID:[Data]	In the case of the AW-HE50					
			AW-HE50		Model number of camera			
			In the case of	the AW-HE60				
			AW-HE60		Model number of camera			
			In the case of	the AW-HE120				
			AW-HE120		Model number of camera			
			In the case of	the AW-HE130				
			AW-HE130		Model number of camera			
			In the case of	the AW-HE40				
			AW-HE40		Model number of camera			
			In the case of	the AW-UE70				
			AW-UE70		Model number of camera			
			In the case of	the AW-HE42				
			AW-HE42		Model number of camera			
			In the case of	the AK-UB300				
			AK-UB300		Model number of camera			
			In the case of	the AW-HR140				
			AW-HR140		Model number of camera			
			In the case of	the AW-UE150				
			AW-UE150		Model number of camera			
Camera	Request	QSV	None		※ Not supported by the			
microcontroller					AK-UB300.			
software version	Response	OSV:[Data]			Camera Microcontroller			
query command					software version			
					Example: V01.28			
Camera Title	Control	OSJ:5C:[Data]	XXXXXXX	Camera Title	※ Only supported by the			
Control command	ontrol command Response OSJ:5C:[Data]			(Fixed 40	AW-UE150.			
				Charactors:	*Support only			
			1	ASCII CODE)	0123456789			
Camera Title	Request	QSJ:5C	None	_	ABCDEFGHIJKLMNOPQRST			
query command	Response	OSJ:5C:[Data]	XXXXXXX	Camera Title	UVWXYZ			
				(Fixed 40	abcdefghijklmnopqrstuvwxyz !#\$%´()*+,/:;<=>?@[]^_`{ }?\			
				Charactors:	:#\pu /0 () \pi,=./.,\-\!\@[]^_ { }}!\			
				ASCII CODE)				

Example of use)

Model number acquisition

[Control] PC → AW-HE50/AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=QID&res=1

[Response] AW-HE50/AW-HE120 → PC

200 OK "OID:AW-HE50"

200 OK "OID:AW-HE120"

※In the case of the AW-HE120

Camera microcontroller software version acquisition

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=QSV&res=1

[Response] AW-HE50 → PC

200 OK "OSV:V01.00"

3.2.22. OSD menu

These commands exercise control over the OSD menu of the camera and enable the current settings to be acquired.

Table 3.2.22. OSD menu

Command name	Category	Command	Data value	Setting	Remarks
OSD menu On/Off control command	Control	DUS:[Data]	0	Menu Off Menu On	The camera OSD menu is turned On or Off.
	Response	DUS:[Data]			
OSD menu On/Off	Request	QUS	None		
query command	Response	OUS:[Data]	0	Menu Off	
			1	Menu On	
MENU switch On	Control	DPG	None		
control command		DPG:[Data]	1		This cancels the (blinking) settings that are not confirmed yet.
	Response	DPG:[Data]			
ITEM switch On	Control	DIT	None		
control command		DIT:[Data]	1		Entered.
	Response	DIT:[Data]	1		
YES switch On	Control	DUP	None		
control command		DUP:[Data]	1h Ah	1Step 10Step	The cursor moves up (the value is changed) %1h (1Step) is supported by the AK-UB300/AW-UE150.
	Response	DUP:[Data]	+		AK-0B300/AW-0E130.
NO switch On	Control	DDW DDW	None		
control command		DDW:[Data]	1h Ah	1Step 10Step	The cursor moves down (the value is changed). %1h (1Step) is supported by the AK-UB300/AW-UE150.
	Response	DDW:[Data]			
RIGHT switch control command	Control	DRT:[Data]	1h Ah	1Step 10Step	**Only supported by the AW-HE120/AW-HE130/AK-UB30 0/AW-UE150.**1h (1Step) is supported by the AK-UB300/AW-UE150.
	Response	DRT:[Data]			
LEFT switch control command	Control	DLT:[Data]	1h Ah	1Step 10Step	※Only supported by the AW-HE120/AW-HE130/AK-UB30 0/AW-UE150.※1h (1Step) is supported by the AK-UB300/AW-UE150.
	Response	DLT:[Data]			
OSD Off With R-TALLY control command	Control	OSE:75:[<i>Data</i>]	0 1	Off On	The OSD menus are not displayed when "On" is selected as this setting and R-TALLY is On.
	Response	OSE:75:[Data]			※ Not supported by the AK-UB300.
OSD Off With	Request	QSE:75	None		Not supported by the AK-UB300.

Command name	Category	Command	Data	Setting	Remarks
			value		Kemarks
R-TALLY	Response	OSE:75:[<i>Data</i>]	0	Off	
query command			1	On	
OSD Mix	Control	OSE:7B:[Data]	In the cas	se of the AW-HE120	
control command	00	0022.[20.0]	00h	OSD Mix Off	Bit0: SD1, bit1: HDMI, bit2:
			01h	SDI On	Analog, bit3: Video — On or Off
			02h	HDMI On	settings for each of the above
			04h	Component On	can be selected and combined.
			08h	Video On se of the AW-HE130	
			00h	OSD Mix Off	On or Off settings for each of the
			01h	SDI On	above can be selected and
			02h	HDMI On	combined.
			08h	Video On	
			10h	IP On	
			00h	os of the AW-HR140 OSD Mix Off	• On or Off acttings for each of the
			00h 01h	SDI On	On or Off settings for each of the above can be selected and
			10h	IP On	combined.
				se of the AK-UB300(V	
			00h	OSD Mix Off	On or Off settings for each of the
	Response	OSE:7B:[Data]	01h	SDI On	above can be selected and
			10h	IP On	combined.
				se of the AW-UE150	0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
			00h 01h	OSD Mix Off 01h:SDI On	On or Off settings for each of the above can be selected and
			0111 02h	02h:HDMI On	combined.
			10h	10h:IP On	combined.
			20h	20h:12G	
			401	SDI/OPTICAL	
OSD Mix	Poguest	QSE:7B	40h None	MONI	※Only supported by the
query command	Request	QSE./B	None		AW-HE120/AW-HE130/AW-HR14
4					0/AK-UB300(V7.20 or a later).
	Response	OSE:7B:[Data]		e of the AW-HE120	
				OSD Mix Off	
			01h	SDI On	
			02h 04h	HDMI On Component On	
			08h	Video On	
			In the cas	se of the AW-HE130	
			00h	OSD Mix Off	
			01h	SDI On	
			02h 08h	HDMI On Video On	
			10h	IP On	
				se of the AW-HR140	
			00h	OSD Mix Off	
			01h	SDI On	
			10h	IP On	7 20 or a later\
			00h	se of the AK-UB300(V OSD Mix Off	r.zu or a later)
			00h 01h	SDI On	
			10h	IP On	
			In the cas	se of the AW-UE150	
			00h	OSD Mix Off	
			01h	01h:SDI On	
			02h	02h:HDMI On	

Command name	Category	Command	Data value	Setting	Remarks
			10h 20h 40h	10h:IP On 20h:12G SDI/OPTICAL MONI	
CHARACTER MIX control command	Control	OSD:98: [Data1]:[Data2]	[Data1] 0 1 [Data2] 0 1	[Data1]Output Browser/Video SDI/HDMI,COMP [Data2]MixSelect Off On	 **Only supported by the AW-HE60. • The Off By Browser setting takes effect only when SDI/HDMI or COMP has been selected as the Output setting.
	Response	OSD:98: [Data1]:[Data2]	2	Off By Browser	
CHARACTER MIX query command	Request	QSD:98:[Data1]	[Data1] 0 1	[Data1] Output Browser/Video SDI/HDMI,COMP	**Only supported by the AW-HE60.
	Response	OSD:98: [Data1]:[Data2]	[Data1] 0 1 [Data2] 0 1	[Data1] Output Browser/Video SDI/HDMI,COMP [Data2] MixSelect Off On Off By Browser	**Only supported by the AW-HE60.

OSD menu: On

[Control] PC → AW-HE50

http://192.168.0.10/cgi-bin/aw_cam?cmd=DUS:1&res=1

[Response] AW-HE50 → PC

200 OK "DUS:1"

·OSD Off With R-TALLY: On

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:75:1&res=1

[Response] AW-HE120 → PC

200 OK "OSE:75:1"

OSD Mix: Off

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:7B:00&res=1

[Response] AW-HE120 → PC

200 OK "OSE:7B:00"

-SDI/HDMI, COMP CHARACTER MIX: Off

[Control] PC → AW-HE60

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:98:1:0&res=1

[Response] AW-HE60 → PC

200 OK "OSD:98:1:0"

3.2.23. Smart picture flip information

This command enables the status of the camera's smart picture flip to be acquired.

Table 3.2.23. Smart picture flip information

	rable 0.2.20. Smart plotare inp information					
Command name	Category	Command	Data value	Setting	Remarks	
Smart picture flip status query command	Request	QFS	None		 Basically, the information is generated by the camera itself, and posted. The current status is posted at startup as well. Current status queries are also supported by the query command. Normal is switched to Flip or vice versa depending on the Install Position setting. ※Only supported by the AW-HE120/AW-HE130/AW-HR140 /AW-UE150. 	
	Response	OFS:[Data]	0	Normal Flip		

Example of use)

·Smart picture flip status acquisition

[Control] PC → AW-HE120 http://192.168.0.10/cgi-bin/aw_cam?cmd=QFS&res=1

[Response] AW-HE120 → PC 200 OK "OFS:[Data]"

3.2.24. PTZ operation setting

These commands control the setting during Pan/Tilt/Zoom operation.

Table 3.2.24. PTZ operation setting

Command name	Category	Command	Data value	Setting	Remarks
Focus ADJ With	Control	OAZ:[Data]	0	Off	※ Not supported by the AK-UB300.
PTZ			1	On	
control command	Response	OAZ:[Data]			
Focus ADJ With	Request	QAZ	None		※ Not supported by the AK-UB300.
PTZ	Response	OAZ:[Data]	0	Off	
query command			1	On	
P/T Speed	Control	OSJ:2D:[Data]	0	Normal	※Only supported by the
control command	Response	OSJ:2D:[Data]	1	Fast	AW-UE150
P/T Speed	Request	QSJ:2D	None		
query command	Response	OSJ:2D:[Data]	0	Normal	
			1	Fast	

Example of use) Focus Adjust with PTZ: On

[Control] $PC \rightarrow AW-HE50$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OAZ:1&res=1

[Response] AW-HE50 \rightarrow PC

200 OK "OAZ:1"

3.2.25. Frequency setting

These commands enable the system frequency to be switched and the current setting to be acquired.

Table 3.2.25. Frequency

	Table 5.2.25. I requeries					
Command name	Category	Command	Data value	Setting	Remarks	
Frequency	Control	OSE:77:[Data]	In the case of the			
control command			AW-HE50/AW-HE60/AW-HE40/AW-UE70/AW-HE42AW-HE12			
			/AW-HI	E130/AW-HR140		
			0	59.94Hz	※The AW-HE50 is supported by	
			1	50Hz	Ver.2 or a later version.	
	Response	OSE:77:[Data]				
			In the cas	se of the AW-UE150		
			0	59.94Hz		
			1	50Hz		
			2	24Hz		
			3	23.98Hz		
Frequency	Request	QSE:77	None			
query command	Response	OSE:77:[Data]	In the cas	se of the		
			AW-HE	50/AW-HE60/AW-H	E40/AW-UE70/AW-HE42AW-HE120	
			/AW-HI	E130/AW-HR140		
			0	59.94Hz	*The AW-HE50 is supported by	
			1	50Hz	Ver.2 or a later version.	
			In the cas	se of the AW-UE150		
			0	59.94Hz		
			1	50Hz		
			2	24Hz		
			3	23.98Hz		

Example of use) Frequency: 50Hz

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:77:1&res=1

[Response] AW-HE120 → PC

200 OK "OSE:77:1"

3.2.26. Error information

This command acquires the error information mainly of the camera.

Table 3.2.26. Error information

Command name	Category	Command	Data value	Setting	Remarks
Error information	Request	QER	None		
query command	Response	OER:[Data]	In the cas	e of the AW-HE120/	AK-UB300/AW-HR140.
			0	Normal	
			1	Fan Error	
			In the cas	e of the AW-UE150	
			0	Normal	in it in it is in it in it is in it in it is in it
			1	Fan Error	
			2	Other Error	
Error information	Request	QSI:46	None		※Only supported by the
query command	Response	OSI:46:[Data]	0000000	No Error	AW-UE150
			0h		
			0000000	Fan Error	it0:Fan Error, bit1:High
			1h		Temperature,
			0000000	High	bit2:Lens Error, bit3:Pan/Tilt Error,
			2h	Temperature	bit4:Sensor Error
			0000000	Lens Error	
			4h	Lons Error	
			0000000	Pan/Tilt Error	
				Faii/ IIIL EIIOI	
			8h	0	
			0000001	Sensor Error	
			0h		

Example of use)

·Error information acquisition

[Control] PC → AW-HE120

http://192.168.0.10/cgi-bin/aw_cam?cmd=QER&res=1

[Response] AW-HE120 \rightarrow PC 200 OK "OER:[Data]"

3.2.27. Night mode settings

These commands control the On/Off of the night mode.

Table 0. Night mode

	5						
Command name	Category	Command	Data value	Setting	Remarks		
Night mode selection	Control	OSD:B2:[Data]	0	Manual Auto	**Only supported by the AW-HE40/ AW-UE70/AW-HE42.		
control command	Response	OSD:B2:[Data]	<u> </u>	7.50	7		
Night mode	Request	QSD:B2	None		※Only supported by the		
selection	Response	OSD:B2:[Data]	0	Manual	AW-HE40/ AW-UE70/AW-HE42.		
query command			1	Auto			
Night mode level	Control	OSD:B7:[Data]	0	Low	※Only supported by the		
control command			1	Mid	AW-HE40/		
			2	High	AW-UE70/AW-HE42.		
	Response	OSD:B7:[Data]		· ·			
Night mode level	Request	QSD:B7	None		※Only supported by the		
query command	Response	OSD:B7:[Data]	0	Low	AW-HE40/		
			1	Mid	AW-UE70/AW-HE42.		
			2	High			

Example of use)

·Night mode: AUTO

[Control] PC → AW-HE40

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:B2:1&res=1

[Response] AW-HE40 \rightarrow PC

200 OK "OSD:B2:1"

3.2.28. Audio settings

These commands control over audio functions.

Table 3.2.28. Audio settings

	Table 3.2.28. Audio settings						
Command name	Category	Command	Data value	Setting	Remarks		
Audio settings control command	Control	OSA:D0:[Data]	0 1	OFF ON	**Only supported by the AW-HE130/AW-HE40/AW-UE70/A W-HE42/AW-HR140 /AW-UE150.		
	Response	OSA:D0:[Data]					
Audio settings	Request	QSA:D0	None				
query command	Response	OSA:D0:[Data]	0	OFF			
			1	ON			
Audio Input	Control	OSA:D1:[Data]	In the cas		W-HE40/AW-UE70/AW-HE42		
Volume			0	Mic High			
control command	Response	OSA:D1:[Data]	1	Mic Middle			
			2	Mic Low			
			3	Line High Line Middle			
			5	Line Low			
				se of the AW-UE150			
			0	Mic			
			3	Line			
Audio Input	Request	QSA:D1	None				
Volume	Response	OSA:D1:[Data]	1	se of the AW-HE130/A	W-HE40/AW-UE70/AW-HE42		
query command	'		0	Mic High			
			1	Mic Middle			
			2	Mic Low			
			3	Line High			
			4	Line Middle			
			5	Line Low			
				se of the AW-UE150			
			0	Mic			
		004 50 55 4 5	3	Line			
Audio Plugin Power	Control	OSA:D2:[Data]	0	OFF ON	※Only supported by the AW-HE130/AW-HE40/AW-UE70/A		
control command	Response	OSA:D2:[Data]	1	ON	W-HE42 /AW-UE150.		
Audio Plugin	Request	QSA:D2	None		VV-11E42 /AVV-0E100.		
Power	Response	OSA:D2:[Data]	0	OFF			
query command	rtooponoo	007 (102.[50.10]	1	ON			
Audio auto level	Control	OSD:BB:[Data]	0	OFF	*AW-UE70/AW-HE42,		
adjust	2 - 1 1 1 1		1	ON	AW-HE40		
control command					· · · · · <u>-</u> · · ·		
	Response	OSD:BB:[Data]					
Audio auto level	Request	QSD:BB	None				
adjust	Response	OSD:BB:[Data]	0	OFF			
query command			1	ON			
Audio equalizer	Control	OSD:BC:[Data]	0	OFF			
control command	Control	JOD.DO.[Data]	1	LowCUT			
Some of community			2	VOICE			
	Response	OSD:BC:[Data]	1 -	V 0.02			
Audio ogualizar		QSD:BC	None				
Audio equalizer	Request		None	OFF			
control command	Response	OSD:BC:[Data]	0	OFF			
			1	LowCUT			
A coalling I for the	0 - 1 - 1	004-04-50-4-43	2	VOICE	WOods some and all the		
Audio Line Input	Control	OSA:D4:[Data1]:	[Data1]	CH1/CH2	※Only supported by the		
Level		[Data2]	0	CH1/CH3	AW-HR140		

Query command	Command name	Category	Command	Data value	Setting	Remarks
Audio Line Input Level query command Response OSA:D4:[Data1] [Data2] Response OSA:D4:[Data1] [Data2] Response OSA:D5:[Data1]: [Data2] OH CH2 CH2 CH3 CH4 CH2 CH3 CH4 CH4 CH4 CH4 CH4 CH4 CH4	control command	Response	OSA:D4:[Data1]:	1	CH2/CH4	
Audio Line Input Level query command Response			[Data2]			
Audio Line Input Level query command Response OSA-D4:[Data1] Data1] Data1 CH1/CH3 CH2/CH4						
Response Response Control Co						
Level query command Response OSA-D4:[Data1]: Data2] Data1] Data2 CH1/CH3 CH2/CH4 Data2 Data2 Data2 Data3 Data3 Data4 Da	Audio Lino Input	Poguest	OSA:D4:[Data1]		-200B	
Response CSA-D4:[Data1]: [Data2] (Data2) (Data1) (Data2) (Da		rtequest	QOA.D4.[Data1]		CH1/CH3	
Response CSA.D4:[Data1] [Data2]						
Audio Output Volume control command Audio Output Volume control command Response Response Audio Output Volume control command Response OSA:D5:[Data1]: [Data2] OSA:D5:[Data1]: [Data2]: S8h	,	Response	OSA:D4:[Data1]:	[Data1]		
Audio Output Volume control command Audio Output Volume Control command Response Audio Output Volume Control command Response OSA-D5:[Data1]:			[Data2]			
Audio Output Volume control command Audio Output Volume Control command Response OSA:D5:[Data1]: [Data2]: OSA:D5:[Data1]: [Data2]: OSA:D5:[Data1]: [Data2]: In the case of the AW-HR140 [Data2]: Sh					CH2/CH4	
Audio Output Volume control command Control Data2 Control Data3 Data2 Data2 Data2 Data3 Data3 Data4 Data3 Data3 Data4 Dat					1.4.dD	
Audio Output Volume Control command Response Control command Control com						
Audio Output Volume control command Audio Output Volume Audio Output Volume Response Audio Output Volume query command uery command query command query						
Data2 Ch1	Audio Output	Control	OSA:D5:[Data1]:			
Data2 1						
Audio Output Volume query command Response OSA:D5:[Data1] O	control command	Response		0		
Audio Output Volume query command			[Data2]			
Clata2 58h						
S8h					СП 4	
Request Part					-40dB	
Response OSA:D5:[Data1] O				-	-	
In the case of the AW-UE150				80h	0dB	
In the case of the AW-UE150				-	-	
Request QSA:D5:[Data1] O						
Request QSA:D5:[Data1] O					Se of the AVV-UE 150	
Request QSA:D5:[Data1] In the case of the AW-UE150 [Data2] CH1 CH2 CH3 CH4 CH2 CH3 CH4 CH2 CH3 CH4 CH2 CH3 CH4 CH2 CH4					CH1	
Audio Output Volume query command Request OSA:D5:[Data1] In the case of the A W-HR140 [Data1] O CH1 1 CH2 2 CH3 3 CH4 In the case of the AW-UE150 [Data1] O CH1 1 CH2 2 CH3 3 CH4 In the case of the AW-HR140 [Data1] O CH1 1 CH2 2 CH3 3 CH4 [Data1] O CH1 1 CH2 2 CH3 3 CH4 [Data2] Fraction of the AW-HR140 [Data1] O CH1 1 CH2 2 CH3 3 CH4 [Data2] 58h -40dB 80h 0dB 80h 0dB 80h 0dB 80h 12dB In the case of the AW-UE150 [Data1] In the case of the AW-UE150 [Data2]						
Audio Output Volume query command Request QSA:D5:[Data1] In the case of the A W-HR140					-36dB	
Audio Output Volume query command Request Volume query command Response OSA:D5:[Data1] In the case of the A W-HR140 CH1 CH2 2				-		
Audio Output Volume query command Request Volume query command Response OSA:D5:[Data1] O				80h	0dB	
Audio Output Volume query command Request Volume query command Response OSA:D5:[Data1] O				aCh	12dB	
Volume query command Data1	Audio Output	Request	QSA:D5:[Data1]			
Query command	Volume					
Response OSA:D5:[Data1]:	query command					
Response OSA:D5:[Data1]:						
In the case of the AW-UE150 [Data 1] 0 CH1						
Data 1						
Response OSA:D5:[Data1]:						
Response OSA:D5:[Data1]:					CH1	
[Data2] [Data1] 0 CH1 1 CH2 2 CH3 3 CH4 [Data2] 58h -40dB 80h 0dB 8Ch 12dB In the case of the AW-UE150 [Data1]		Response	OSA:D5:[Data1]:	In the cas		
1 CH2 2 CH3 3 CH4 [Data2] 58h -40dB 80h 0dB - 12dB In the case of the AW-UE150 [Data1]						
2 CH3 3 CH4 [Data2] 58h -40dB 80h 0dB 8Ch 12dB In the case of the AW-UE150 [Data1]						
3 CH4 [Data2] 58h -40dB 80h 0dB 8Ch 12dB In the case of the AW-UE150 [Data1]						
[Data2]						
58h -40dB 80h 0dB 8Ch 12dB In the case of the AW-UE150 [Data1]					O 17	
80h 0dB 8Ch 12dB In the case of the AW-UE150 [Data1]					-40dB	
				-	-	
In the case of the AW-UE150 [Data1]				80h	0dB	
In the case of the AW-UE150 [Data1]				- 0Ch	- 124B	
[Data1]						
					Se of the AVV-UE 150	
, , , , , , , , , , , , , , , , , , ,				0	CH1	

Command name	Category	Command	Data value	Setting	Remarks
			[Data2]		
			5Ch	-36dB	
			-	-	
			80h	0dB	
			-	-	
			8Ch	12dB	
Audio Head Room	Control	OSA:D6:[Data]	0	FS-12dB	※Only supported by the
control command	Response	OSA:D6:[Data]	1	FS-18dB	AW-HR140
	·		2	FS-20dB	
Audio Head Room	Request	QSA:D6	None		
query command	Response	OSA:D6:[Data]	0	FS-12dB	
			1	FS-18dB	
			2	FS-20dB	
Audio Line CH	Control	OSA:D7:[Data]	0	All	※Only supported by the
Select	Response	OSA:D7:[Data]	1	CH1/CH2	AW-HR140
control command			2	CH3/CH4	
			3	Non	
Audio Line CH	Request	QSA:D7	None		
Select	Response	OSA:D7:[Data]	0	All	
query command			1	CH1/CH2	
			2	CH3/CH4	
			3	Non	

· Audio settings: ON

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D0:1&res=1

[Response] AW-HE130→ PC

200 OK "OSA:D0:1"

3.2.29. Tally Brightness settings

These commands control the brightness of the tally LEDs.

Table 3.2.29. Tally Brightness settings

	14.5.5 G.E.E.E. 14.5.9 E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E						
Command name	Category	Command	Data value	Setting	Remarks		
Tally Brightness settings control command	Control	OSA:D3:[Data]	0 1 2	LOW MID HIGH	**Only supported by the AW-HE130 /AW-UE150. **Effective for R-Tally, G-Tally		
	Response	OSA:D3:[Data]	-				
Tally Brightness	Request	QSA:D3	None		※Only supported by the AW-HE130		
settings	Response	OSA:D3:[Data]	0	LOW	/AW-UE150.		
query command			1	MID			
			2	HIGH			

Example of use)

•Tally Brightness settings: MID

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:D3:1&res=1

[Response] AW-HE130 \rightarrow PC

200 OK "OSA:D3:1"

3.2.30. Knee settings

These commands control over Knee.

Table 3.2.30. Knee settings

			Data	ee settings	
Command name	Category	Command	value	Setting	Remarks
Knee Mode	Control	OSA:2D:[Data]	0	OFF	**Only supported by the
control command			1 2	MANUAL AUTO	AW-HE130/AW-HR140/AW-UE150/
			2	AUTO	AK-UB300. •When DRS is set to On, the knee
	Response	OSA:2D:[Data]	1		setting is disabled.
Knee Mode	Request	QSA:2D	None		
query command	Response	OSA:2D:[Data]	0	OFF	AW-HE130/AW-HR140/AW-UE150/
			1	MANUAL	AK-UB300.
MA OTED LOUE	0	004 00 10 4 1	2	AUTO	MANUTATION AND A STATE OF THE ASSOCIATION AND A STATE OF THE A
MASTER KNEE POINT	Control	OSA:20:[Data]		e of the AW-HE130/AV	
control command	Doononoo	OSA:20:[Data]	_ 22h _ ≀	70.00%	(1step=0.5%)
Control Command	Response	USA.20.[Data]	80h	93.50%	
			}	}	
			B6h	107.00%	
			In the cas	e of the AK-UB300	
			4Ah	80.00%	(1step=0.5%)
			₹	₹	
			80h	93.50%	
			}	\	
			C2h	110.00%	
MASTER KNEE	Request	QSA:20	None	f th - A\A/	M LID440/004/ LIE450
POINT query command	Response	OSA:20:[Data]	22h	se of the AW-HE130/AV 70.00%	(1step=0.5%)
query command			2211	70.00%	(1step=0.5%)
			80h	93.50%	
			₹	₹	
			B6h	107.00%	
			In the cas	e of the AK-UB300	
			4Ah	80.00%	(1step=0.5%)
			₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			80h	93.50%	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	140,000/	
MASTER KNEE	Control	OSA:24:[Data]	C2h	110.00% se of the AW-HE130/AV	M HD140/00/ LIE150
SLOPE	Control	USA.24.[Data]	00h		V-HR 140/AVV-0E 150
	Response	OSA:24:[Data]	- 0011	lĭ≀	
	. 100p000	00/[2 a.a.]	63h	99	
			In the cas	e of the AK-UB300	
			00h	0	
			₹	₹	
			C7h	199	
MASTER KNEE	Request	QSA:24	None	(II A)A() T (OC (1)	
SLOPE query command	Response	OSA:24:[Data]		se of the AW-HE130/AV	/V-HK14U/AVV-UE15U
query command			00h ≀	0	
			63h	99	
				se of the AK-UB300	
			00h	0	
			₹	≀	
			C7h	199	
AUTO KNEE	Control	OSG:97:[Data]	1	1	※Only supported by the

Command name	Category	Command	Data value	Setting	Remarks
RESPONSE	Response	OSG:97:[Data]	}	`	AK-UB300/AW-UE150
control command	D	000.07	8 Name	8	-
AUTO KNEE RESPONSE	Request Response	QSG:97 OSG:97:[Data]	None 1	1	-
query command	Response	USG.97.[Data]	'≀	'	
quory command			8	8	
HLG KNEE SW	Control	OSI:40:[Data]	0	OFF	※Only supported by the
control command	Response	OSI:40:[Data]	1	ON	AK-UB300/AW-UE150
HLG KNEE SW	Request	QSI:40	None		
query command	Response	OSI:40:[Data]	0	OFF	
LILO KNEE DOINT	Control	OCI:44:[Detel	1	ON ON LIBROR	
HLG KNEE POINT control command	Control	OSI:41:[Data]	30h	e of the AK-UB300 60.00%	(1step=0.25%)
Control Communa			}	00.0070	(13tep=0.2370)
			80h	80.00%	
			₹	}	
			D0h	100.00%	
				se of the AW-UE150	
			1Ch	55.00%	(1step=0.25%)
			₹	₹	Valid for 4 step units only: 1%
	D	OOL44-(D-4-1	80h	80.00%	increments
	Response	OSI:41:[Data]	₹	₹	
			D0h	100.00%	
HLG KNEE POINT	Request	QSI:41	None	f th - AIC LIDOOO	
query command	Response	OSI:41:[Data]	30h	se of the AK-UB300 60.00%	(1step=0.25%)
			30H	00.00%	(1step=0.2370)
			80h	80.00%	
			₹	}	
			D0h	100.00%	
			In the cas	se of the AW-UE150	
			1Ch	55.00%	(1step=0.25%)
			₹	₹	Valid for 4 step units only: 1%
			80h	80.00%	increments
			₹	₹	
111 0 10155	0	001.40.50 / 1	D0h	100.00%	
HLG KNEE SLOPE	Control	OSI:42:[Data]		se of the AK-UB300	
control command			00h ≀	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			C7h	199	
				se of the AW-UE150	
			00h	0	
	Response	OSI:42:[Data]	≀	₹	
			64h	100	
HLG KNEE	Request	QSI:42	None		
SLOPE	Response	OSI:42:[Data]		se of the AK-UB300	
query command			00h	0	
			l ≀ C7h	≀ 199	
				se of the AW-UE150	
			00h	0	
			₹		
			64h	100	
R KNEE POINT	Control	OSA:22:[Data]	1Ch	-25.00%	※Only supported by the
control command	Response	OSA:22:[Data]	≀	₹ .	AK-UB300
i			80h	0.00%	

Command name	Category	Command	Data value	Setting	Remarks
			}	}	(1step=0.25%)
			E4h	+25.00%	
R KNEE POINT	Request	QSA:22	None		
query command	Response	OSA:22:[Data]	1Ch	-25.00%	
			\ \ \ \	0.00%	
			80h ≀	0.00%	
			E4h	+25.00%	
B KNEE POINT	Control	OSA:23:[Data]	1Ch	-25.00%	※Only supported by the
control command	Response	OSA:23:[Data]		₹	AK-UB300
			80h	0.00%	(4.4. 0.050()
			}	₹	(1step=0.25%)
			E4h	+25.00%	
B KNEE POINT	Request	QSA:23	None	05.000/	
query command	Response	OSA:23:[Data]	1Ch	-25.00%	
			≀ 80h	0.00%	
			\ \ \ \	0.00%	
			E4h	+25.00%	
R KNEE SLOPE	Control	OSA:26:[Data]	1Dh	-99	%Only supported by the
control command	Response	OSA:26:[Data]	}	₹	AK-UB300
			80h	0	
			}	₹	
			E3h	+99	
R KNEE SLOPE	Request	QSA:26	None		
query command	Response	OSA:26:[Data]	1Dh	-99	
			≀ 80h	0	
			\ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			E3h	+99	
B KNEE SLOPE	Control	OSA:27:[Data]	1Dh	-99	%Only supported by the
control command	Response	OSA:27:[Data]	}	₹	AK-UB300
			80h	0	
			}	₹	
		004.07	E3h	+99	
B KNEE SLOPE	Request	QSA:27	None	00	
query command	Response	OSA:27:[Data]	1Dh ≀	-99	
			80h	0	
			}	₁	
			E3h	+99	
AUTO KNEE	Control	OSA:28:[Data]	4Ah	80.00%	XOnly supported by the
POINT	Response	OSA:28:[Data]	}	}	AK-UB300
control command			80h	93.50%	(1step=0.25%)
) DCI-	107.000/	(13lep-0.20/0)
AUTO KNEE	Doguest	QSA:28	B6h	107.00%	_
POINT	Request Response	OSA:28:[Data]	None 4Ah	80.00%	\dashv
query command	response	JOA.20.[Data]	4An }	80.00%	
, - -			80h	93.50%	
			}	₹	
			B6h	107.00%	
AUTO KNEE	Control	OSA:29:[Data]	7Ch	100%	※Only supported by the
LEVEL	Response	OSA:29:[Data]	≀	₹	AK-UB300
control command			85h	109%	

Command name	Category	Command	Data value	Setting	Remarks
AUTO KNEE	Request	QSA:29	None		(1step=1%)
LEVEL	Response	OSA:29:[Data]	7Ch	100%	
query command			₹	₹	
			85h	109%	

Example of use)

Knee Mode: MANUAL

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2D:1&res=1

[Response] AW-HE130→ PC

200 OK "OSA:2D:1"

•MASTER KNEE POINT: 93.50%

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:20:80&res=1

[Response] AW-HE130→ PC 200 OK "OSA:20:80"

•MASTER KNEE SLOPE: 0

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:24:00&res=1

[Response] AW-HE130→ PC 200 OK "OSA:24:00"

3.2.31. White Clip settings

These commands control over White Clip.

Table 3.2.31. White Clip settings

Command name	Category	Command	Data value	Setting	Remarks
White Clip settings	Control	OSA:2E:[Data]	0	OFF	※Only supported by the
control command			1	ON	AW-HE130/AW-HR140/AW-UE150.
	Response	OSA:2E:[Data]			
White Clip settings	Request	QSA:2E	None		※Only supported by the
query command	Response	OSA:2E:[Data]	0	OFF	AW-HE130/AW-HR140/AW-UE150
			1	ON	
White Clip Level	Control	OSA:2A:[Data]	00h	90%	※Only supported by the
control command			₹	₹	AW-HE130/AW-HR140/AW-UE150
			13h	109%	When [Knee Mode] is set to Auto
	Response	OSA:2A:[Data]			and the White Clip value is
					changed, the Knee value will also
White Clip Level	Request	QSA:2A	None		change. XOnly supported by the
query command	Response	OSA:2A:[Data]	00h	90%	AW-HE130/AW-HR140/AW-UE150
	•		₹	}	
			13h	109%	

Example of use)

•White Clip settings: ON

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2E:1&res=1

[Response] AW-HE130→ PC

200 OK "OSA:2E:1"

•White Clip Level: 90%

[Control] PC → AW-HE130

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:2A:00&res=1

[Response] AW-HE130→ PC

200 OK "OSA:2A:00"

3.2.32. OIS settings

These commands control over OIS.

Table 3.2.32. OIS settings

Command name	Category	Command	Data	Setting	Remarks
OIS settings	Control	OIS:[Data]	value	e of the AW-HE130/AW-HE	540/AW/ LIE70/AW/ HE42
control command	Control	Olo.[Data]	0	Off	•Models AW-HE40 provide
denti di dentinana			1	On	electronic image stabilization
			2	On(Mode2) **	instead.
					•The formats marked with ** are supported only by the AW-UE70/AW-HE42.
			In the case	e of the AW-HR140	
			0	Off	
	Response	OIS:[Data]	1	OIS	
			2	Dynamic I.S. System	
			0	e of the AW-UE150 Off	
			1	On	
OIS settings	Request	QIS	None	<u> </u>	
query command	Response	OIS:[Data]	In the case	e of the AW-HE130/AW-HE	40/AW-UE70/AW-HE42
			0	Off	 Models AW-HE40 provide
			1 2	On On(Mode2) **	electronic image stabilization instead.
					•The formats marked with **
					are supported only by the AW-UE70/AW-HE42.
			In the case	e of the AW-HR140	
			0	Off	
			1	OIS	
			2	Dynamic I.S. System	
				e of the AW-UE150	
			0	Off On	
L.	1		l I	UII	

Example of use)

•OIS settings: On

[Control] $PC \rightarrow AW-HE130$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OIS:1&res=1

[Response] AW-HE130→ PC

200 OK "OIS:1"

3.2.33. HDR settings

These commands control over HDR.

Table 3.2.33. HDR settings

Command name	Category	Command	Data value	Setting	Remarks
HDR settings	Control	OSD:B4:[Data]	In the case	of the AW-HE40/AW-L	JE70/AW-HE42
control command			0	Off	
			1	Low	
			3	High	
	Response	OSD:B4:[Data]			
HDR settings	Request	QSD:B4	None		
query command	Response	OSD:B4:[Data]	In the case	of the AW-HE40/AW-L	JE70/AW-HE42
			0	Off	
			1	Low	
LIDD 014/ (1441b))		0010075 1	3	High	
HDR SW (MAIN)	Control	OSI:2C:[Data]	0	OFF	*Only supported by the
control command	Response	OSI:2C:[Data]	1	ON	AK-UB300
HDR SW (MAIN)	Request	QSI:2C	None	OFF	-
query command	Response	OSI:2C:[Data]	0	OFF	
COLORIMETRY	0 t 1	OCI-0D-ID-4-1	1	ON	WOod by a compared to the other
control command	Control	OSI:2D:[Data]	00h 01h	no effect BT.709	**Only supported by the
COLORIMETRY	Response	OSI:2D:[Data]	ļ	B1.709	AK-UB300
query command	Request	QSI:2D OSI:2D:[Data]	None 00h	no effect	-
query command	Response	USI.ZD.[Data]	00h 01h	BT.709	
HDR SW (SDI1)	Control	OSI:2E:[Data]	0	OFF	※Only supported by the
control command	Response	OSI:2E:[Data]	1	ON	AK-UB300
HDR SW (SDI1)	Request	QSI:2E.[Data]	None	OIV	_ AR-0B300
query command	Response	OSI:2E:[Data]	0	OFF	-
query communa	Response	OOI.ZE.[Data]	1	ON	
HDR SW (IP)	Control	OSI:2F:[Data]	0	OFF	※Only supported by the
control command	Response	OSI:2F:[Data]	1 1	ON	AK-UB300
HDR SW (IP)	Request	QSI:2F	None		
query command	Response	OSI:2F:[Data]	0	OFF	1
	'		1	ON	
HDR SW (SDI2)	Control	OSI:31:[Data]	0	OFF	%Only supported by the
control command	Response	OSI:31:[Data]	1	ON	AK-UB300
HDR SW (SDI2)	Request	QSI:31	None		1
query command	Response	OSI:31:[Data]	0	OFF]
	-		1	ON	
HLG MODE	Control	OSI:39:[Data]	0	FIX	※Only supported by the
control command	Response	OSI:39:[Data]	1	VAR	AK-UB300
HLG MODE	Request	QSI:39	None		
query command	Response	OSI:39:[Data]	0	FIX	
			1	VAR	
HLG SDR	Control	OSI:3A:[Data]	0	FIX	※Only supported by the
CONVERT MODE	Response	OSI:3A:[Data]	1	VAR	AK-UB300
control command	Б .	001:04			-
HLG SDR CONVERT MODE	Request	QSI:3A	None	FIV	-
query command	Response	OSI:3A:[Data]	0	FIX	
HLG TYPE SELECT	0-1-41	OCI-3B-(D-4-1	1	VAR	WOnly name of the live the
TILG ITPE SELECT	Control	OSI:3B:[Data]	0	NORMAL	※Only supported by the

Command name	Category	Command	Data value	Setting	Remarks
control command	Response	OSI:3B:[Data]	1	STRETCH	AK-UB300
HLG TYPE SELECT	Request	QSI:3B	None		
query command	Response	OSI:3B:[Data]	0	NORMAL	
			1	STRETCH	
HLG BLACK	Control	OSI:3C:[Data]	0	OFF	
GAMMA SW control command	Response	OSI:3C:[Data]	1	ON	AK-UB300
HLG BLACK	Request	QSI:3C	None		\dashv
GAMMA SW	Response	OSI:3C:[Data]	0	OFF	\dashv
query command	response	001.00.[Data]	1	ON	
HLG MASTER	Control	OSI:3D:[Data]	60h	-32	※Only supported by the
BLACK GAMMA	Response	OSI:3D:[Data]	} }	1	AK-UB300
control command			80h	0	
			}	₹	
			A0h	+32	
HLG MASTER	Request	QSI:3D	None		
BLACK GAMMA	Response	OSI:3D:[Data]	60h	-32	
query command			₹	₹	
			80h	0	
			\	₹	
			A0h	+32	
HLG R BLACK	Control	OSI:3E:[Data]	60h	-32	※Only supported by the
GAMMA	Response	OSI:3E:[Data]	\	≀	AK-UB300
control command			80h	0	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(
LILO D DI ACK	Б	OCUAE	A0h	+32	_
HLG R BLACK GAMMA	Request	QSI:3E	None	20	_
query command	Response	OSI:3E:[Data]	60h ≀	-32 ≀	
quory communa			80h	0	
			\ \{\}	₹	
			A0h	+32	
HLG B BLACK	Control	OSI:3F:[Data]	60h	-32	※Only supported by the
GAMMA	Response	OSI:3F:[Data]	} }	1	AK-UB300
control command			80h	0	
			}	₹	
			A0h	+32	
HLG B BLACK	Request	QSI:3F	None		
GAMMA	Response	OSI:3F:[Data]	60h	-32	
query command			\	₹	
			80h	0	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
1 II O ODD		0014075 : 7	A0h	+32	
HLG SDR CONVERT GAIN	Control	OSI:43:[Data]	74h	-12	*Only supported by the
control command	Response	OSI:43:[Data]	77h 7Ah	-9 -6	AK-UB300
Some of command			7An 7Dh	-6 -3	
			80h	0	
HLG SDR	Request	QSI:43	None		\dashv
CONVERT GAIN	Response	OSI:43:[Data]	74h	-12	\dashv
query command	Позронае	Joi. 40.[Data]	77h	-9	
-			7Ah	-6	
			7Dh	-3	
			80h	0	

Command name	Category	Command	Data value	Setting	Remarks
HLG SDR	Control	OSI:44:[Data]	0	LOW	※Only supported by the
CONVERT CLIP	Response	OSI:44:[Data]	1	MID	AK-UB300
control command			2	HIGH	
HLG SDR	Request	QSI:44	None		
CONVERT CLIP	Response	OSI:44:[Data]	0	LOW	
query command			1	MID	
			2	HIGH	

Example of use)

·HDR settings: Off

[Control] $PC \rightarrow AW-HE40$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:B4:0&res=1

[Response] AW-HE40 → PC 200 OK "OSD:B4:0"

3.2.34. Software version information

This command enables the software version information to be acquired.

Table 3.2.34. Software version information

Command name	Category	Command	Data value	Setting	Remarks
Software version	Request	QSI:19:[Data1]	[Data1]		※ Only
information			0	SYSTEM VERSION	supported by
query command			1	CAM MAIN	the AK-UB300.
			2	NETWORK	
			3	ROM TABLE	
			4	CAM FPGA	
			5	AVIO FPGA	
			6	OPTION FPGA	
	Response	OSI:19:[Data1]:[Data2]	[Data1]		※ Only
			0	SYSTEM VERSION	supported by
			1	CAM MAIN	the AK-UB300.
			2	NETWORK	
			3	ROM TABLE	
			4	CAM FPGA	
			5	AVIO FPGA	
			6	OPTION FPGA	
			[Data2]		
			(Ver. String)	EX) 01.00-000-00.00	

Example of use)

Software version information acquisition: CAM MAIN

[Control] PC → AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=QSI:19:1&res=1

[Response] AK-UB300 \rightarrow PC

200 OK "OSI:19:1:01.00-000-00.00"

3.2.35. Tally settings

These commands perform ON/OFF controls for tallies.

Table 3.2.35. Tally settings

Command name	Category	Command	Data value	Setting	Remarks
RED tally settings control command	Control	TLR:[Data]	0	Off On	※ Only supported by the AK-UB300/AW-UE150.
	Response	TLR:[Data]			
RED tally settings	Request	QLR	None		
query command	Response	OLR:[Data]	0	Off	
			1	On	
GREEN tally settings	Control	TLG:[Data]	0	Off	※ Only supported by the
control command			1	On	AK-UB300/AW-UE150.
	Response	TLG:[Data]			
GREEN tally settings	Request	QLG	None		
query command	Response	OLG:[Data]	0	Off	
			1	On	

Example of use)

•RED tally settings: On

[Control] $PC \rightarrow AK-UB300$

http://192.168.0.10/cgi-bin/aw_cam?cmd=TLR:1&res=1

[Response] AK-UB300 → PC

200 OK "TLR:1"

3.2.36. SKIN TONE DETAIL settings

These commands configure the skin tone detail settings and acquire the current setting values.

Table 3.2.36. SKIN TONE DETAIL settings

Command name	Category	Command	Data value	Setting	Remarks
SKIN TONE DETAIL	Control	OSA:40:[Data]	0	Off	※ Only supported by the
control command			1	On	AK-UB300/AW-UE150.
	Response	OSA:40:[Data]	-		
SKIN TONE DETAIL	Request	QSA:40	None		1
query command	Response	OSA:40:[Data]	0	Off	-
quory communa	response	OO/ (.40.[Data]	1	On	
SKIN GET	Control	OSA:41:[Data]	0	Off	Only supported by the AK-UB300.
control command			1	On	, , , , ,
			2	Get	
	Response	OSA:41:[Data]	-		
SKIN GET	Request	QSA:41	None		1
query command	Response	OSA:41:[Data]	0	Off	1
, ,			1	On	
			2	Get	
MEMORY SELECT	Control	OSG:42:[Data]	0	Α	Only supported by the AK-UB300.
control command			1	В	
			2	С	
	Response	OSG:42:[Data]			
MEMORY SELECT	Request	QSG:42	None]
query command	Response	OSG:42:[Data]	0	Α	
			1	В	
			2	С	
H POSITION	Control	OSG:44:[Data]	000h	0%	X Only supported by the AK-UB300.
control command			₹	\ \	•0.25% steps
			190h	100.00%	
	Response	OSG:44:[Data]			
H POSITION	Request	QSG:44	None		
query command	Response	OSG:44:[Data]	000h	0%	
			₹	₹	
			190h	100.00%	
V POSITION	Control	OSG:45:[Data]	000h	0%	Only supported by the AK-UB300.
control command			≀ 190h	100.00%	•0.25% steps
			19011	100.00%	
	Response	OSG:45:[Data]			
V POSITION .	Request	QSG:45	None	100/	1
query command	Response	OSG:45:[Data]	000h	0%	
			} 100h	100.000/	
SKIN TONE ZEBRA	Control	OSA:49:[Data]	190h 0	100.00% Off	※ Only supported by the AK-UB300.
control command	Control	OSA.48.[Data]	1	On	M Only supported by the AK-00300.
Control Command			'		
	D.	004:40.55 1.3	4		
OZINI TONE ZEDDA	Response	OSA:49:[Data]	NI a · · ·		-
SKIN TONE ZEBRA	Request	QSA:49	None	0#	-
query command	Response	OSA:49:[Data]	0	Off	
			1	On	

Re ZEBRA EFFECT R MEMORY query command SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT R R MEMORY Re SKIN TONE EFFECT R R MEMORY query command	esponse Request esponse	OSG:47:[Data] OSG:47:[Data] QSG:47 OSG:47:[Data] OSG:48:[Data] QSG:48 OSG:48:[Data]	0 1 2 3 4 5 6 None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	A B C A+B A+C B+C A+B+C A B C A+B A+C B+C A+B+C A B C A+B A+C A+B+C A+B+C A B C A+B A+C B+C A+B+C	X Only supported by the AK-UB300. X Only supported by the AK-UB300.
Control command Resident Services Scientific Command Resident Scientifi	Control esponse	QSG:47 OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	2 3 4 5 6 None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 None 0 1 2 3 4 5 6 6 0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C A+B A+C B+C A+B+C A B C A+B A+C B+C A+B+C A B C A+B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
ZEBRA EFFECT MEMORY query command SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command Re SKIN TONE EFFECT MEMORY query command	Control esponse	QSG:47 OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	3 4 5 6 None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 None 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A+B A+C B+C A+B+C A B C A+B A+C B+C A+B+C A B C A+B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
ZEBRA EFFECT MEMORY query command SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command Re SKIN TONE EFFECT MEMORY query command	Control esponse	QSG:47 OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	4 5 6 None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 None	A+C B+C A+B+C A B C A+B A+C B+C A+B+C A B C A+B+C A+B+C A B C A+B A+C B+C A+B A+C B+C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
ZEBRA EFFECT MEMORY query command SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command Re SKIN TONE EFFECT MEMORY query command	Control esponse	QSG:47 OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	5 6 None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 1 2 3 4 5 6 6 7 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	B+C A+B+C A B C A+B A+C B+C A+B+C A+B+C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
ZEBRA EFFECT MEMORY query command SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command Re SKIN TONE EFFECT MEMORY query command	Control esponse	QSG:47 OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	6 None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 None 0 None 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A+B+C A B C A+B A+C B+C A+B+C A B C A+B C A+B A+C B+C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
ZEBRA EFFECT MEMORY query command SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command Re SKIN TONE EFFECT MEMORY query command	Control esponse	QSG:47 OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	None 0 1 2 3 4 5 6 0 1 2 3 4 5 6 None 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A B C A+B A+C B+C A+B+C A B C A+B A+C B+C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
MEMORY query command SKIN TONE EFFECT MEMORY control command Results of the service of the ser	Control esponse	OSG:47:[Data] OSG:48:[Data] OSG:48:[Data] QSG:48	0 1 2 3 4 5 6 0 1 2 3 4 5 6 None	B C A+B A+C B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command SKIN TONE CRISP O O O O O O O O O O O O O	Control esponse	OSG:48:[Data] OSG:48:[Data] QSG:48	1 2 3 4 5 6 0 1 2 3 4 5 6 None 0 1	B C A+B A+C B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
SKIN TONE EFFECT MEMORY control command Re SKIN TONE EFFECT MEMORY query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	2 3 4 5 6 0 1 2 3 4 5 6 None	C A+B A+C B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
MEMORY control command Re SKIN TONE EFFECT R MEMORY Red query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	3 4 5 6 0 1 2 3 4 - 5 6 None	A+B A+C B+C A+B+C A B C A+B A+C B+C A+B A+C B+C A+B+C	** Only supported by the AK-UB300.
MEMORY control command Re SKIN TONE EFFECT R MEMORY Red query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	4 5 6 0 1 2 3 4 - 5 6 None 0 1	A+C B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
MEMORY control command Re SKIN TONE EFFECT R MEMORY Red query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	5 6 0 1 2 3 4 - 5 6 None 0 1	B+C A+B+C A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
MEMORY control command Re SKIN TONE EFFECT R MEMORY Red query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	6 0 1 2 3 4 5 6 None	A+B+C A B C A+B A+C B+C A+B+C A+B+C	※ Only supported by the AK-UB300.
MEMORY control command Re SKIN TONE EFFECT R MEMORY Red query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	0 1 2 3 4 5 6 None 0 1	A B C A+B A+C B+C A+B+C	※ Only supported by the AK-UB300.
MEMORY control command Re SKIN TONE EFFECT R MEMORY Red query command SKIN TONE CRISP C	esponse Request	OSG:48:[Data] QSG:48	1 2 3 4 5 6 None 0 1	B C A+B A+C B+C A+B+C	* Only supported by the AK-UB300.
Control command Re SKIN TONE EFFECT MEMORY query command SKIN TONE CRISP C	lequest	QSG:48	2 3 4 - 5 6 None 0 1	C A+B A+C B+C A+B+C	
SKIN TONE EFFECT Remarks Resulting R	lequest	QSG:48	3 4 - 5 6 None 0 1	A+B A+C B+C A+B+C	
SKIN TONE EFFECT MEMORY query command SKIN TONE CRISP COMMAND C	lequest	QSG:48	4 - 5 6 None 0 1	A+C B+C A+B+C	
SKIN TONE EFFECT MEMORY query command SKIN TONE CRISP COMMAND C	lequest	QSG:48	5 6 None 0 1	B+C A+B+C A B	
SKIN TONE EFFECT MEMORY query command SKIN TONE CRISP COMMAND C	lequest	QSG:48	6 None 0	A+B+C A B	
MEMORY query command SKIN TONE CRISP C			None 0 1	A B	
MEMORY query command SKIN TONE CRISP C			0	В	
query command SKIN TONE CRISP C	ssponse	OOG.40.[Data]	1	В	
SKIN TONE CRISP C					
			1 7	С	
			3	A+B	
			4	A+C	
			5	B+C	
			6	A+B+C	
	Control	OSG:49:[Data]	41h	-63	※ Only supported by the AK-UB300.
			} ````	\	// Ciny supported by mer in 52555
			80h	0	
		000.40.[D-4-1	- ≀	₹	
l Re	esponse	OSG:49:[Data]	BFh	+63	
SKIN TONE CRISP R	equest	QSG:49	None		
	esponse	OSG:49:[Data]	41h	-63	
	·		₹	₹	
			80h	0	
			₹	₹	
			BFh	+63	
	Control	OSA:45:[Data]	00h	0	※ Only supported by the AK-UB300.
I CENTER			₹	₹	
control command			FFh	255	
Re	esponse	OSA:45:[Data]			
	lequest	QSA:45	None		
	esponse	OSA:45:[Data]	00h	0	1
query command	•		₹		
-			FFh	255	
				1	1

Command name	Category	Command	Data value	Setting	Remarks
SKIN TONE DTL	Control	OSA:46:[Data]	00h	0	※ Only supported by the AK-UB300.
I WIDTH			}	}	
control command	Response	OSA:46:[Data]	FFh	255	
SKIN TONE DTL	Request	QSA:46	None		
I WIDTH	Response	OSA:46:[Data]	00h	0	
query command			₹	₹	
			FFh	255	
SKIN TONE DTL	Control	OSA:47:[Data]	00h	0	※ Only supported by the AK-UB300.
Q WIDTH			}	}	
control command	Response	OSA:47:[Data]	FFh	255	
SKIN TONE DTL	Request	QSA:47	None		
Q WIDTH	Response	OSA:47:[Data]	00h	0	
query command			₹	₹	
			FFh	255	
SKIN TONE	Control	OSG:4F:[Data]	000h	0	※ Only supported by the AK-UB300.
Q PHASE			₹	}	
control command	Response	OSG:4F:[Data]	167h	359	
SKIN TONE	Request	QSG:4F	None		
Q PHASE	Response	OSG:4F:[Data]	000h	0	
query command			}	₹	
			167h	359	

Example of use)

•SKIN TONE DETAIL settings: On

[Control] PC \rightarrow AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:40:1&res=1

[Response] AK-UB300 → PC

200 OK "OSA:40:1"

3.2.37. Haze reduction

These commands configure the haze reduction settings and acquire the current setting values.

Table 3.2.37. Haze reduction

Command name	Category	Command	Data value	Setting	Remarks
HAZE REDUCTION	Control	OSG:B6:[Data]	0	Off	※ Only supported by the
control command			1	On	AK-UB300/AW-HR140.
	Response	OSG:B6:[Data]			
HAZE REDUCTION	Request	QSG:B6	None		
query command	Response	OSG:B6:[Data]	0	Off	
			1	On	
HAZE REDUCTION	Control	OSG:B7:[Data]	1	1	※ Only supported by the
LEVEL			₹	₹	AK-UB300/AW-HR140.
control command	Response	OSG:B7:[Data]	3	3	
HAZE REDUCTION	Request	QSG:B7	None		
LEVEL	Response	OSG:B7:[Data]	1	1	
query command			₹	₹	
			3	3	

Example of use)

•HAZE REDUCTION settings: On

[Control] $PC \rightarrow AK-UB300$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSG:B6:1&res=1

[Response] AK-UB300 → PC

200 OK "OSG:B6:1"

3.2.38.4K crop

These commands configure the 4K crop settings and acquire the current setting values.

Table 3.2.38. 4K crop

Command name	Category	Command	Data value	Setting	Remarks
CROP OUT SEL	Control	OSI:16:[Data]	1	YL	※ Only supported by
control command	00		2	G	the
			3	MG	AK-UB300/AW-UE150.
	Response	OSI:16:[Data]			4
CROP OUT SEL	Request	QSI:16	None		
query command	Response	OSI:16:[Data]	1	YL	
			2	G	
			3	MG	
CROP ADJ SEL	Control	OSI:17:[Data]	1	YL	Only supported by
control command			2	G	the
	Response	OSI:17:[Data]	3	MG	AK-UB300/AW-UE150.
CROP ADJ SEL	Request	QSI:17	None		_
query command	Response	OSI:17:[Data]	1	YL	
			2	G	
			3	MG	
CROP H/V	Control	OSI:15:[Data1]:	[Data1]	[Data1]	※ Only supported by
POSITION		[Data2]	01	Left Max. Speed	the
Speed Control			₹	\	AK-UB300/AW-UE150.
control command			50	Stop	
			₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			99	Right Max. Speed	
			[Data2]	[Data2]	
			01	Down Max. Speed	
			50	Stop	
			30) Stop	
	Response	OSI:15:[Data1]:	99	Up Max. Speed	
	rtooponoo	[Data2]			
CROP MARKER	Control	OSI:1A:[Data]	In the case of	the AK-UB300	
SEL			1	YL	
control command			2	G	
			3	MG	
			4	YL+G	
			5	YL+MG	
			6	G+MG	
	Response	OSI:1A:[Data]	7	YL+G+MG	
			In the case of	the AW-UE150	
			0	Off	
			1	YL	
			2	G	
			3	MG	
			4	YL+G	
			5	YL+MG G+MG	
			6	YL+G+MG	
CROP MARKER	Request	QSI:1A	None	I LTUTIVIU	
SEL SEL	Response	OSI:1A:[Data]	In the case of	the AK-I IR300	
OLL	response	OSI. IA.[Data]	in the case of	IIIE AK-ODOOO	

Command name	Category	Command	Data value	Setting	Remarks
query command	<u></u>		1	YL	
' '			2	G	
			3	MG	
			4	YL+G	
			5	YL+MG	
			6	G+MG	
			7	YL+G+MG	
			In the case of	the AW-UE150	
			0	Off	
			1	YL	
			2	G	
			3	MG	
			4 5	YL+G YL+MG	
			6	G+MG	
			7	YL+G+MG	
CROP H	Control	OSI:1B:[Data]	738h	-50%	※ Only supported by
POSITION	2311101	J 5 D.[Data]	73011	-30 /0	the AK-UB300.
control command			800h	0%	•0.25% units
			₹	}	
			8C8h	+50%	
	Response	OSI:1B:[Data]			
CROP H	Request	QSI:1B	None		
POSITION	Response	OSI:1B:[Data]	738h	-50%	
query command			₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			800h	0%	
CROP V	Control	OSI:1C:[Data]	738h	-50%	※ Only supported by
POSITION	Control	OOI. TO.[Data]	73011	-30 70 }	the AK-UB300.
control command			800h	0%	•0.25% units
			1	≀	
	D	001:40:10-4-1	8C8h	+50%	
ODOD V	Response	OSI:1C:[Data]	Nisasa		-
CROP V POSITION	Request	QSI:1C	None	E00/	-
query command	Response	OSI:1C:[Data]	738h	-50% ≀	
query command			800h	0%	
			₹	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
			8C8h	+50%	
Crop SDI Out	Control	OSI:32:[Data]	0	FULL	※Only supported by the
Select	Response	OSI:32:[Data]	1	CROP	AK-UB300/AW-UE150
control command					
Crop SDI Out	Request	QSI:32:[Data]	None		
Select	Response	OSI:32:[Data]	0	FULL	
query command		00 1:05 15 1 1	1	CROP	WO 1
UHD Crop	Control	OSJ:2E:[Data]	0	Off	*Only supported by the
control command	Response	OSJ:2E:[Data]	1 2	Crop(1080)	AW-UE150
LIUD Cros	Dog::t	OS I:2E		Crop(720)	4
UHD Crop	Request	QSJ:2E	None	Off	-
query command	Response	OSJ:2E:[Data]	0		
			1 2	Crop(1080) Crop(720)	
Crop H POS. (YL)	Control	OSJ:2F:[Data]	000h	0	※Only supported by the
control command	Response	OSJ:2F:[Data]	~	~	AW-UE150
2011. O. Oommiana	1 (CSPONSE	JOU.ZI .[Data]	780h	1920	Even only
			70011	1020	*[Crop(1080)]
		<u> </u>	<u> </u>		[(/]

Command name	Category	Command	Data value	Setting	Remarks
	<u> </u>		A00h	2560	0-1920
Crop H POS. (YL)	Request	QSJ:2F	None		[Crop(720)]
query command	Response	OSJ:2F:[Data]	000h ~	0 ~	0-2560
			780h	1920	
Crop V POS. (YL)	Control	OSJ:30:[Data]	000h	0	※Only supported by the
control command	Response	OSJ:30:[Data]	~	~	AW-UE150
			438h ≀	1080 ≀	※[Crop(1080)] 0-1080
			5A0h	1440	[Crop(720)]
Crop V POS. (YL)	Request	QSJ:30	None		0-1440
query command	Response	OSJ:30:[Data]	000h ~	0 ~	
			438h	1080	
			₹	₹	
			5A0h	1440	
Crop H POS. (G)	Control	OSJ:31:[Data]	000h	0	*Only supported by the
control command	Response	OSJ:31:[Data]	~	~	AW-UE150
			780h ≀	1920 ≀	
			A00h	2560	0-1920
Crop H POS. (G)	Request	QSJ:31	None		[Crop(720)] 0-2560
query command	Response	OSJ:31:[Data]	000h ~	0 ~	0-2560
			780h	1920	
			} A00h	} 2560	
Crop V POS. (G)	Control	OSJ:32:[Data]	000h	0	※Only supported by the
control command	Response	OSJ:32:[Data]	~	~	AW-UE150
			438h ≀	1080 ≀	※[Crop(1080)] 0-1080
			5A0h	1440	[Crop(720)]
Crop V POS. (G)	Request	QSJ:32	None		0-1440
query command	Response	OSJ:32:[Data]	000h ∼	0 ~	
			438h	1080	
			5A0h	1440	
Crop H POS. (MG)	Control	OSJ:33:[Data]	000h	0	※Only supported by the
control command	Response	OSJ:33:[Data]	1~	~	AW-UE150
			780h	1920	Even only
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	※[Crop(1080)] 0-1920
Crop H POS. (MG)	Request	QSJ:33	A00h None	2560	[Crop(720)]
query command	Response	OSJ:33:[Data]	000h	0	0-2560
440.7 00	rtooponoo	o o o o o o o o o o o o o o o o o o o	~	~	
			780h	1920	
Crop V POS. (MG)	Control	OSJ:34:[Data]	000h	0	※Only supported by the
control command	Response	OSJ:34:[Data]] ~	~	AW-UE150
			438h ≀	1080	※[Crop(1080)] 0-1080
			5A0h		[Crop(720)]
Crop V POS. (MG)	Request	QSJ:34	None		0-1440
query command	Response	OSJ:34:[Data]	000h	0	
			~	~	

Command name	Category	Command	Data value	Setting	Remarks
			438h	1080	
Crop IP Out Select	Control	OSI:33:[Data]	0	FULL	※Only supported by the
control command	Response	OSI:33:[Data]	1	CROP	AK-UB300/AW-UE150
Crop IP Out Select query command	Request Response	QSI:33 OSI:33:[Data]	None 0	FULL	
	Пооролю		1	CROP	
CROP H/V POSITION (YL) Speed	Control Response	OSJ:5D:[Data1]:[Data2] OSJ:5D:[Data1	[Data1] 01	[Data1] Left Max. Speed	**Only supported by the AW-UE150
control command	Тезропас]:[Data2]	50 -	Stop	
			99	Right Max. Speed	
			[Data2] 01	[Data2] Down Max. Speed	
			50 -	Stop	
			99	UP Max. Speed	
CROP H/V POSITION (G) Speed	Control Response	OSJ:5E:[Data1]:[Data2] OSJ:5E:[Data1	[Data1] 01	[Data1] Left Max. Speed	※Only supported by the AW-UE150
control command	Тезропас]:[Data2]	50	Stop	
			99	Right Max. Speed	
			[Data2] 01	[Data2] Down Max. Speed	
			50 -	Stop	
			99	UP Max. Speed	
CROP H/V POSITION (MG) Speed	Control Response	OSJ:5F:[Data1]:[Data2] OSJ:5F:[Data1	[Data1] 01	[Data1] Left Max. Speed	
control command]:[Data2]	50	Stop	
			99	Right Max. Speed	
			[Data2] 01 -	[Data2] Down Max. Speed	
			50 -	Stop -	
0 5 ::		00 1:00	99	UP Max. Speed	WO 1
Crop Position (YL, G, MG) query command	Request QSJ:60 Response OSJ:60:[Data1]:[Data2]:[Data 3]:[Data4]:[Dat a5]:[Data6]		None [Data1] 000h - 780h	[Data1] H POS (YL) 0 - 1920	<pre>%Only supported by the AW-UE150 %[Crop(1080)] H POSISION : 0-1920 V POSISION : 0-1080 [Crop(720)]</pre>
			- A00h [Data2] 000h	2560 [Data2] V POS (YL) 0	H POSISION : 0-2560 V POSISION : 0-1440

Command name	Category	Command	Data value	Setting	Remarks
			438h	1080	
			5A0h [Data3] 000h	1440 [Data3] H POS (G) 0	
			780h	- 1920 -	
			- A00h [Data4] 000h	2560 [Data4] V POS (G) 0	
			438h	1080	
			- 5A0h [Data5] 000h	1440 [Data5] H POS (MG) 0	
			- 780h	- 1920	
			- A00h [Data6] 000h	- 2560 [Data6] V POS (MG) 0	
			438h	1080	
			5A0h	- 1440	
CROP H/V POSITION	Control Response	OSJ:A0:[Data1]:[Data2]	[Data1] 01	[Data1] (YL) Left Max. Speed	※Only supported by the AW-UE150
Speed Control (YL/G/MG)		3]:[Data4]:[Dat a5]:[Data6]	- 50	- Stop	
			-	-	
			99 [Data2] 01	Right Max. Speed [Data2] (YL) Down Max. Speed	
			50	Stop	
			99 [Data3] 01	UP Max. Speed [Data3] (G) Left Max. Speed	
			50	Stop	
			- 99 [Data4] 01	Right Max. Speed [Data4] (G) Down Max. Speed	
			50	- Stop	
			- 99 [Data5] 01	UP Max. Speed [Data5] (MG) Left Max. Speed	
			50 -	Stop	

Command name	Category	Command	Data value	Setting	Remarks
			99	Right Max. Speed	
			[Data6]	[Data6] (MG)	
			01	Down Max. Speed	
			-	-	
			50	Stop	
			-	-	
			99	UP Max. Speed	

Example of use)

•CROP OUT SEL settings: YL [Control] PC → AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:16:1&res=1

[Response] AK-UB300 \rightarrow PC

200 OK "OSI:16:1"

3.2.39. Intelligent

These commands configure the Intelligent settings and acquire the current setting values.

Table 3.2.39. Intelligent

Command name	Category	Command	Data value	Setting	Remarks
Intelligent	Control	OSI:21:[Data]	0	Off	※ Only supported by the AW-HR140.
control command			1	On	
	Response	OSI:21:[Data]	2	Lock	
Intelligent	Request	QSI:21	None		
query command	Response	OSI:21:[Data]	0	Off	
			1	On	
			2	Lock	
Intelligent Mode	Control	OSI:22:[Data]	0	AE	X Only supported by the AW-HR140.
control command			1	AE+ATW	
	Response	OSI:22:[Data]			
Intelligent Mode	Request	QSI:22	None		
query command	Response	OSI:22:[Data]	0	AE	
			1	AE+ATW	
Intelligent ND Filter	Control	OSI:23:[Data]	0	Through	※ Only supported by the AW-HR140.
control command			1	1/8	
	Response	OSI:23:[Data]	2	1/64	
			3	Auto	
Intelligent ND Filter	Request	QSI:23	None		
query command	Response	OSI:23:[Data]	0	Through	
			1	1/8	
			2	1/64	
			3	Auto	
Intelligent AGC Mode	Control	OSI:24:[Data]	0	Normal	※ Only supported by the AW-HR140.
control command			1	Sports	
	Response	OSI:24:[Data]	2	SN	
Intelligent AGC Mode	Request	QSI:24	None		
query command	Response	OSI:24:[Data]	0	Normal	
			1	Sports	
			2	SN	

Example of use)

·Intelligent settings: On

[Control] PC → AW-HR140

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:21:1&res=1

[Response] AW-HR140 → PC

200 OK "OSI:21:1"

3.2.40. Shooting mode

These commands configure the shooting mode.

Table 3.2.40. Shooting mode

Command name	Category	Command	Data value	Setting	Remarks
Shooting Mode	Control	OSI:30:[Data]	0	NORMAL	※Only supported by the
control command	Response	OSI:30:[Data]	1	HIGH SENS.	AK-UB300/AW-UE150
Shooting Mode	Request	QSI:30	None		AIX-00000/AVV-02100
query command	Response	OSI:30:[Data]	0	NORMAL	
			1	HIGH SENS.	

Example of use)

•Shooting mode: HIGH SENS.

[Control] PC \rightarrow AW-UE150

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:30:1&res=1

[Response] AW-UE150 → PC

200 OK "OSI:30:1"

3.2.41. Operation lock

These commands configure the Operation lock mode.

Table 3.2.41. Operation lock

Command name	Category	Command	Data value	Setting	Remarks
Operation Lock control command	Control Response	OSJ:3E:[Data] OSJ:3E:[Data]	xxxx(40 Charactors)	xxxx(40 Charactors)	%Only supported by the
oona or command	Тооролоо	Occ.oz.[Bata]	onarasis;		AW-UE150 •Only "a∼z,A∼Z, ,
					(space)" can be used.
Release Operation Lock	Control	OSJ:3F	None		
control command	Response	OSJ:3F			AW-UE150
Operation Lock Status	Request	QSJ:40	None		
query command	Response	OSJ:40:[Data1	[Data1]	[Data1]	AW-UE150
]:[Data2]	0	Unlock	
			1	Lock	
			[Data2]	[Data2]	
			xxxx(40	xxxx(40 Charactors)	
			Charactors)		

Example of use)

·Operation lock: On

[Control] PC → AW-UE150

[Response] AW-UE150 → PC

200 OK "OSJ:3E:0123456789012345678901234567890123456789"

3.2.42. External output

These commands configure the external output.

Table 3.2.42. External output

Command name	Category	Command	Data value	Setting	Remarks
External Output1	Control	OSJ:41:[Data]	0	Off	※Only supported by the AW-UE150
control command	Response	OSJ:41:[Data]	1	R-Tally	, , , , , ,
			2	G-Tally	
External Output1	Request	QSJ:41	None		
query command	Response	OSJ:41:[Data]	0	Off	
			1	R-Tally	
			2	G-Tally	
External Output2	Control	OSJ:42:[Data]	0	Off	※Only supported by the AW-UE150
control command	Response	OSJ:42:[Data]	1	R-Tally	, , , , , , , , , , , , , , , , , , , ,
			2	G-Tally	
External Output2	Request	QSJ:42	None		
query command	Response	OSJ:42:[Data]	0	Off	
			1	R-Tally	
			2	G-Tally	

Example of use)

•External output1 : R-Tally

[Control] PC → AW-UE150

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:41:1&res=1

[Response] AW-UE150 → PC

200 OK "OSJ:41:1"

3.2.43. Power on position

These commands configure the power on position.

Table 3.2.43. Power on position

Command name	Category	Command	Data value	Setting	Remarks
Power on position control command	Control Response	OSJ:45:[Data] OSJ:45:[Data]	0 1 2 2	None Standby Home Preset	**Only supported by the AW-UE150
Power on position query command	Request Response	QSJ:45 OSJ:45:[Data]	3 None 0 1 2 3	None Standby Home Preset	
Power on preset number control command	Control Response	OSJ:46:[Data] OSJ:46:[Data]	00 ~ 99	Preset001 - Preset100	**Only supported by the AW-UE150
Power on preset number query command	Request Response	QSJ:46 OSJ:46:[Data]	None 00 ~ 99	Preset001 - Preset100	

Example of use)

•Power on position : Standby

[Control] PC \rightarrow AW-UE150

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:45:1&res=1

[Response] AW-UE150 → PC

200 OK "OSJ:45:1"

3.2.44. FLARE

These commands configure the Flare.

Table 3.2.44. FLARE

		1	.2.77. L/\		
Command name	Category	Command	Data value	Setting	Remarks
FLARE SW	Control	OSA:11:[Data]	0	OFF	※Only supported by the
control command	Response	OSA:11:[Data]	1	ON	AK-UB300
FLARE SW	Request	QSA:11	None		74K GBGGG
query command	Response	OSA:11:[Data]	0	OFF	
			1	ON	
MASTER FLARE	Control	OSG:96:[Data]	1Ch	-100	※Only supported by the
control command			~	~	AK-UB300
	Response	OSG:96:[Data]	80h	0	7 02000
	'	,	~	~	
			E4h	100	
MASTER FLARE	Request	QSG:96	None		
query command	Response	OSG:96:[Data]	1Ch	-100	
			~	~	
			80h	0	
			~	~	
			E4h	100	
R FLARE	Control	OSD:35:[Data]	9Ch	-100	※Only supported by the
control command			~	~	AK-UB300
	Response	OSD:35:[Data]	FFh	-1	1
			00h	0	
			01h	+1	
			~	~	
		222.22	64h	+100	
R FLARE	Request	QSD:35	None		
query command	Response	OSD:35:[Data]	9Ch	-100	
			~	~	
			FFh	-1	
			00h	0	
			01h	+1 ~	
			~ 64b		
O EL ADE	O a sa tira d	OCD-26-[D-4-1	64h 9Ch	+100	
G FLARE control command	Control	OSD:36:[Data]	9Cn ~	-100 ~	※Only supported by the
control command			FFh	-1	AK-UB300
	Response	OSD:36:[Data]	00h	0	
			01h	+1	
			~	~	
			64h	+100	
G FLARE	Request	QSD:36	None	100	\dashv
query command	Response	OSD:36:[Data]	9Ch	-100	-
quory communu	Response	COD.00.[Data]	~	~	
			FFh	-1	
			00h	0	
			01h	+1	
			~	~	
			64h	+100	
	1	1	1	1	İ

Command name	Category	Command	Data value	Setting	Remarks
B FLARE	Control	OSD:37:[Data]	9Ch	-100	※Only supported by the
control command			~	~	AK-UB300
	Response	OSD:37:[Data]	FFh	-1	7111 00000
		002.0[20.0.]	00h	0	
			01h	+1	
			~	~	
			64h	+100	
B FLARE	Request	OSD:37	None		
query command	Response	OSD:37:[Data]	9Ch	-100	
			~	~	
			FFh	-1	
			00h	0	
			01h	+1	
			~	~	
			64h	+100	

Example of use)

•FLARE SW: On

[Control] PC → AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd= OSA:11:1&res=1

[Response] AK-UB300 → PC

200 OK "OSA:11:1"

3.2.45. Option Device Type

These commands configure the option device type.

Table 3.2.45. Option Device Type

Command name	Category	Command	Data	Setting	Remarks
Option Device Type	Request	QSI:2A	None		※Only supported by the
query command	Response	OSI:2A:[Data]	0	no option	AK-UB300
			1	4K default	7111 02000
			2	12G option	
			3	TICO option	

Example of use)

Option Device Type: 4K default

[Request] PC → AK-UB300

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSI:2A&res=1

[Response] AK-UB300 \rightarrow PC

200 OK "OSI:2A:1"

3.2.46. Tracking Data Output

These commands configure Tracking Data Output.

Table3.2.46 Tracking Data Output

Command name	Category	Command	Data	Setting	Remarks
Tracking Data Output (Serial) control command	Control Response	OSJ:54:[Data] OSJ:54:[Data]	0	Off On	**Only supported by the AW-UE150
Tracking Data Output	Request	QSJ:54	None		
(Serial) query command	Response	OSJ:54:[Data]	0	Off On	
Tracking Data Output (IP) control command	Control Response	OSJ:55:[Data] OSJ:55:[Data]	0	Off On	**Only supported by the AW-UE150
Tracking Data Output	Request	QSJ:55	None		
(IP) query command	Response	OSJ:55:[Data]	0	Off On	

Example of use)

Tracking Data Output (Serial): On
 [Control] PC → AW-UE150
 http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:54:1&res=1

 [Response] AW-UE150 → PC
 200 OK "OSJ:54:1"

3.2.47. V-Log

These commands configure V-Log.

Table 3.2.47 Tracking Data Output

Command name	Category	Command	Data	Setting	Remarks
Color Setting control command	Control Response	OSJ:56:[Data] OSJ:56:[Data]	0 1	Normal V-Log	
Color Setting guery command	Request Response	QSJ:56 OSJ:56:[Data]	None 0	Normal	- AW-0E130
		0 001001[2 010]	1	V-Log	
12G SDI/Fiber Out V-Log Output Select control command	Control Response	OSJ:57:[Data] OSJ:57:[Data]	0 1	V-Log V-709	**Only supported by the AW-UE150
12G SDI/Fiber Out V-Log Output Select query command	Request Response	QSJ:57 OSJ:57:[Data]	None 0 1	V-Log V-709	_
3G SDI Out V-Log Output Select control command	Control Response	OSJ:58:[Data] OSJ:58:[Data]	0	V-Log V-709	**Only supported by the AW-UE150
3G SDI Out V-Log Output Select query command	Request Response	QSJ:58 OSJ:58:[Data]	None 0 1	V-Log V-709	1
MONI Out V-Log Output Select control command	Control Response	OSJ:59:[Data] OSJ:59:[Data]	0 1	V-Log V-709	**Only supported by the AW-UE150
MONI Out V-Log Output Select query command	Request Response	QSJ:59 OSJ:59:[Data]	None 0 1	V-Log V-709	
HDMI Out V-Log Output Select control command	Control Response	OSJ:5A:[Data] OSJ:5A:[Data]	0	V-Log V-709	**Only supported by the AW-UE150
HDMI Out V-Log Output Select query command	Request Response	QSJ:5A OSJ:5A:[Data]	None 0 1	V-Log V-709	

Example of use)

•Color Setting : V-Log

[Control] $PC \rightarrow AW-UE150$

http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:56:1&res=1

[Response] AW-UE150 → PC

200 OK "OSJ:56:1"

4. Camera information update notification

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

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

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

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

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

This chapter uses the term "update notification" to refer to this function.

4.1. Procedure for receiving the update notifications

4.1.1. Procedure of start/end of the update notifications reception

An HTTP message is sent to the camera to start or stop the reception of the update notification from the camera.

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.

The ① update notification receive start steps and ② update notification receive end steps are each described below.

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)

Given below is the sequence which is followed when receiving the update notifications is started.

[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.

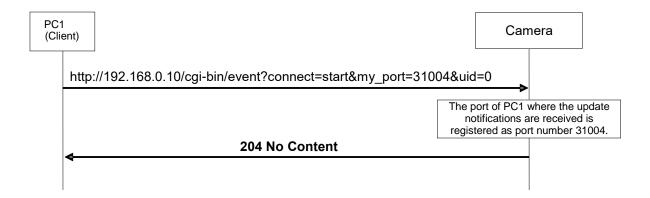


Fig.4-1 Update notification receive start sequence

[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)

Given below is the sequence which is followed when receiving the update notifications is to be ended.

[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.

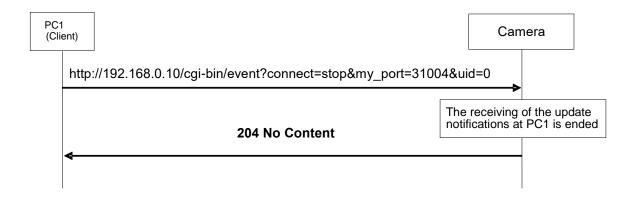


Fig.4-2 Update notification receive end sequence

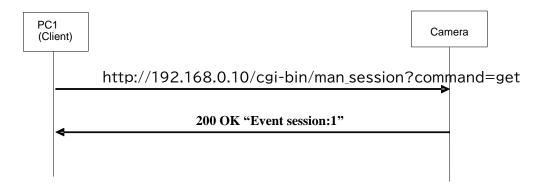
4.1.2. Registered number of update notifications

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.

Request	Response
/cgi-bin/man_session?command=get	Event session:* (*: Registered number)

[sequence of request registered number of update notifications]



4.2. Data format for update notifications

The data received in the update notifications will be described next.

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	Size	Reserve	Update notification information	Reserve
(22 bytes)	(2 bytes)	(4 bytes)	(Variable length: Max. 504 bytes)	(24 bytes)

Fig.4-3 Receive data format

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

The updates of the camera are described in the update notification information.

The format used for the update notification information received from the camera is given below.

[Update notification information format]

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

[CR]:0x0d, [LF]:0x0a

Example 1) Power: On [CR][LF]**p1**[CR][LF]

Example 2) Color bar: On [CR][LF]**DCB:1**[CR][LF]

4.3. Setting change sequence

Update notifications are sent when the settings or statuses of the camera have been changed. Given below is an example of the update notification sequence.

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.

4.3.1. Changing the settings from a terminal

[Changing the settings from the local terminal]

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.

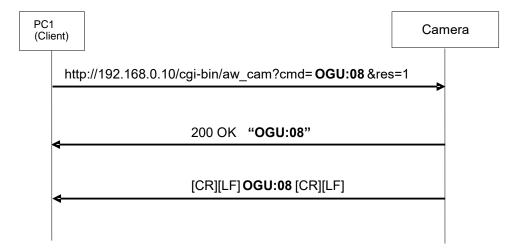


Fig.4-4 Changing the settings from the local terminal

[Changing the settings from another terminal]

When a camera setting has been changed from another terminal (PC2), the local terminal (PC1) is also notified of the change.

In addition to the HTTP response to the command, the other terminal (PC2) is notified of the change by an update notification as well.

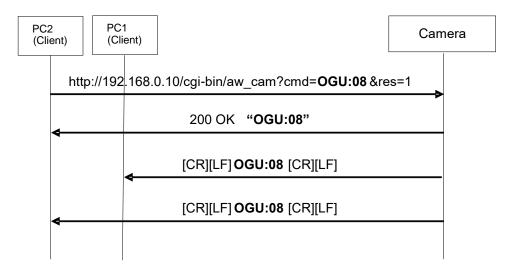


Fig.4-5 Changing the settings from another terminal

(Remarks)

When the camera receives the control command and its setting is changed, it gives an update notification.

(It does not give an update notification if a query command has been received.)

However, when any of the following commands have been received, the update notification is not given.

① OSD menu

Table 4-1

Command name		Command
OSD menu Off/On	control command	DUS:[Data]
MENU switch On	control command	DPG
ITEM switch On	control command	DIT
YES switch On	control command	DUP
NO switch On	control command	DDW
RIGHT switch On	control command	DRT
LEFT switch On	control command	DLT

**The RIGHT/LEFT switch On control command is supported only by the AW-HE120.

② Pan, tilt, zoom, focus and iris operation commands <Pan-tilt head control commands>

Table 4-2

	Command name	Command
Pan/tilt	control command	#APC[Data1][Data2]
		#P[Data]
		#T[Data]
		#PTS[Data1][Data2]
Zoom	control command	#AXZ[Data]
		#Z[Data]
Focus	control command	#AXF[Data]
		#F[Data]
Iris position	control command	#I [Data]
		#AXI [Data]

<Camera control commands>

Table 4-3

Command name		Command	
One-touch focus	control command	OSE:69:[Data]	
Contrast level	control command	OSD:48:[Data]	
(Picture level)			
Iris volume	control command	ORV:[Data]	

4.3.2. Setting value initialization

The contents of the table below are posted in succession by the update notifications when the settings have been initialized using the OSD menu of the camera or from the web screen. However, in the case of the AK-UB300, when the setting values are initialized from the web screen, the camera information is not changed so the update notification will not be sent. (The update notification will be sent during initialization from the OSD menu.)

Table 4-4-1 (In the case of the AW-HE50/AW-HE60)

Notification	Remarks	,
XSF	Scene file	
ORS	Iris (Auto/Manual)	
OSD:48	Contrast level	
OSH	Shutter	
OMS	Synchro scan	
OGU	Gain	
OSA:65	Frame mix	
OSD:69	Maximum gain value	
OSE:74	Maximum frame mix value	
OCG	Chroma level	
OAW	AWB (AWC) mode	
ODT	Detail	
OSA:B1	TOTAL DTL LEVEL HIGH **Supported only by AW-HE60 Camer	raMain V3.05 or subsequent versions.
OSA:30	TOTAL DTL LEVEL	raMain V3.05 or subsequent versions.
OSE:32	Flesh Tone Mode	
OSE:31	Color matrix	
OSD:3A	Digital noise reduction (DNR)	
OTD	Pedestal	
OSE:72	Gamma type	
OSD:50	Gamma level	
OSE:73	Backlight compensation	
OSE:33	DRS	
OHP	Horizontal sync phase	
OSC	Subcarrier sync phase (coarse)	
OSN	Subcarrier sync phase (fine)	
OSE:20	Down-conversion mode	
OSE:68	HDMI color component	
iNS	Installation position	
uPVS	Pan preset speed	
OSE:71	Preset playback range	
OSE:70	Digital zoom On/Off	
sWZ	Zoom position-linked pan/tilt speed adjustment On/Off	
OAF	Focus Auto/Manual	
OAZ	Auto focus On/Off during zooming	
tAE	Tally input enable/disable	
OSA:88	OSD Status	
wLC	Wireless Control	
OSE:75	OSD Off With TALLY	
d6	Option switch	※Only supported by the AW-HE60.
OSD:98:1	CHARACTER MIX (SDI/HDMI, COMP)	*Only supported by the AW-HE60.
OSD:98:0	CHARACTER MIX (Browser/Video)	*Only supported by the AW-HE60.

Table 4-4-2 (In the case of the AW-HE120)

Notification	Remarks
XSF	Scene file
iNS	Installation position
ORS	Iris (Auto/Manual)
sPF	Smart Picture Flip
OSD:48	Picture level
fDA	Flip Detect Angle
OSH	Shutter
uPVS	Pan preset speed
OMS	Synchro scan
sWZ	Zoom position-linked pan/tilt speed adjustment On/Off
OGU	Gain
wLC	Wireless Control
OSA:65	Frame mix
OSD:69	Maximum gain value
OSE:74	Maximum frame mix value
OCG	Chroma level
OAW	AWB (AWC) mode
ODT	Detail
OSE:31	Color matrix
OSD:3A	Digital noise reduction (DNR)
ORI	R GAIN
OBI	B GAIN
OTP	Pedestal
ORP	R PEDESTAL
OBP	B PEDESTAL
OSE:72	Gamma type
OSD:50	Gamma level
OSD:2F	Linear Matrix (R-G)
OSD:30	Linear Matrix (R-B)
OSD:31	Linear Matrix (G-R)
OSD:32	Linear Matrix (G-B)
OSD:33	Linear Matrix (B-R)
OSD:34	Linear Matrix (B-G)
OSD:0A	H Detail Level H
OSD:0E	V Detail Level H
OSD:12	H Detail Level L
OSD:16	V Detail Level L
OSD:1E	Detail Band
OSD:22	Noise Suppress
OSD:4B	FleshTone Noise Suppress
OSD:80	Color Correction (B_Mg GAIN/SATURATION)
OSD:81	Color Correction (B_Mg PHASE)
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)

Table 4-4-2 (In the case of the AW-HE120) (continued)

Notification	Remarks
OSD:84	Color Correction (Mg R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:88	Color Correction (R YI GAIN/SATURATION)
OSD:89	Color Correction (R YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8C	Color Correction (YI G GAIN/SATURATION)
OSD:8D	Color Correction (YI G PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G_Cy GAIN/SATURATION)
OSD:91	Color Correction (G Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:94	Color Correction (Cy_B GAIN/SATURATION)
OSD:95	Color Correction (Cy_B PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OFT	ND Filter
OSE:33	DRS
OAF	Focus Auto/Manual
OSE:7B	OSD Mix
OHP	Horizontal sync phase
ORV	Iris Mode (AUTO/MANUAL)
OSA:87	Format
OSA:88	OSD Status
OSE:20	Down-conversion mode
OSE:68	HDMI color component
OSE:70	Digital zoom On/Off
OSE:71	Preset playback range
OSE:75	OSD Off With TALLY
OSE:77	Frequency
OSE:7A	Maximum Digital Zoom
DCB	COLOR BAR/CAMERA
OAZ	Auto focus On/Off during zooming
DCS	Color Bars Setup
OSD:65	OUTPUT SELECT

Table 4-4-3 (In the case of the AW-HE130)

Notification	Remarks
XSF	Scene file
OSD:48	Picture Level
ORS	Iris Mode
OSH	Shutter Mode
OMS	Step/Synchro
OGU	Gain
OSD:69	AGC Max Gain
OSA:65	Frame Mix
OFT	ND Filter
d6	Day/Night
OSD:B0	Chroma Level
OAW	White Balance Mode
OSD:B1	Color Temperature
ORI	R Gain
OBI	B Gain
OTP	Pedestal
ORP	R Pedestal
OBP	B Pedestal
ODT	Detail
OSA:30	Master Detail
OSD:A1	V Detail Level
OSD:A2	Detail Band
OSD:22	Noise Suppress
OSD:A3	FleshTone NoiseSUP.
OSE:72	Gamma Type
OSA:6A	Gamma
OSE:33	DRS
OSA:2D	Knee Mode
OSA:20	MASTER KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSA:2E	White Clip
OSA:2A	White Clip Level
OSD:3A	DNR
OSE:31	Matrix Type
OSD:A4	Linear Matrix (R-G)
OSD:A5	Linear Matrix (R-B)
OSD:A6	Linear Matrix (G-R)
OSD:A7	Linear Matrix (G-B)
OSD:A8	Linear Matrix (B-R)
OSD:A9	Linear Matrix (B-G)
OSD:80	Color Correction (B_Mg GAIN/SATURATION)
OSD:81	Color Correction (B_Mg PHASE)
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)

Table 4-4-3 (In the case of the AW-HE130) (continued)

Notification	Remarks
OSD:84	Color Correction (Mg R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:9A	Color Correction (Mg R R GAIN/SATURATION)
OSD:9B	Color Correction (Mg_R_R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:9C	Color Correction (R R YI GAIN/SATURATION)
OSD:9D	Color Correction (R R YI PHASE)
OSD:88	Color Correction (R_YI GAIN/SATURATION)
OSD:89	Color Correction (R YI PHASE)
OSD:9E	Color Correction (R_YI_YI_GAIN/SATURATION)
OSD:9F	Color Correction (R_YI_YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8C	Color Correction (YL G GAIN/SATURATION)
OSD:8D	Color Correction (YI_G GAIN/SATORATION) Color Correction (YI_G PHASE)
OSD:8E	Color Correction (TI_G FTIAGE) Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:07	Color Correction (G Cy GAIN/SATURATION)
OSD:90	Color Correction (G_Cy PHASE)
OSD:91	Color Correction (Cy GAIN/SATURATION)
OSD:92 OSD:93	Color Correction (Cy PHASE)
OSD:93	Color Correction (Cy B GAIN/SATURATION)
OSD:94	Color Correction (Cy_B GAIN/SATURATION) Color Correction (Cy_B PHASE)
OSD:95	Color Correction (Cy_B FNASE) Color Correction (B GAIN/SATURATION)
OSD:90	Color Correction (B PHASE)
OSD.91	Horizontal Phase
OSE:20	Down CONV. Mode
DCS	
iNS	Color Bars Setup Installation position
	1
sPF	Smart Picture Flip
fDA	Flip Detect Angle
pST	Preset Speed Table
uPVS OSE:71	Preset Speed
	Preset Scope Freeze During Preset
pRF sWZ	Speed With Zoom POS.
OAF	Focus Mode
OAZ	
OSE:70	Focus ADJ With PTZ.
	Digital Zoom
OSE:7A	Max Digital Zoom
ODE	Digital Extender
OIS	OIS

Table 4-4-3 (In the case of the AW-HE130) (continued)

Notification	Remarks
tAE	Tally Enable
OSA:D3	Tally Brightness
wLC	Wireless Control
OSE:7B	OSD Mix
OSE:75	OSD Off With Tally
OSA:88	OSD Status
OSA:D0	Audio Enable
OSA:D1	Audio Input Volume
OSA:D2	Audio Plugin Power
OVP:01	Model Select
OSE:7C	Preset Digital Extender Enable
IMP	Status Display Lamp

Table 4-4-4 (In the case of the AW-HE40/AW-UE70/AW-HE42)

Notification	Remarks
XSF	Scene file
OSE:70	Digital Zoom
OSE:7A	Max Digital Zoom
OSD:B3	i.Zoom
ODE ODE	Digital Extender
OSD:B8	Digital Extender Magnification *only AW-UE70/AW-HE42
OAF	Focus Mode
d1	Extender/AF Control
OAZ	Focus ADJ With PTZ.
ORS	Iris Mode
d3	Iris Auto/Manual
ORV	Iris Mode (AUTO/MANUAL)
OSH	Shutter Mode
OMS	Step/Synchro
OSD:BF	AutoShutterLimit *only AW-UE70/AW-HE42
OGU.BF	Gain
OSD:69	AGC Max Gain
OSA:65	Frame Mix
OSE:74	Maximum frame mix value
OSE.74	ND Filter *only AW-UE70/AW-HE42
OCG	Chroma Level
OSD:48	Picture Level
OSD.46	OIS
OAW	White Balance Mode
OSD:B1	Color Temperature
OTD	Pedestal
ODT	Detail
OSA:30	Master Detail
OSA:B1	TOTAL DTL LEVEL HIGH
OSE:72	Gamma Type
OSD:50	Gamma Level
OSE:33	DRS
OSD:3A	DNR
d6	Day/Night
OSD:B2	Night Mode Sel
OSD:B7	NIGHT-DAY LEVEL
OSD:B4	HDR
OSD:31	Matrix Type
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)
OSD:84	Color Correction (Mg_R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:9C	Color Correction (R_R_YI GAIN/SATURATION)
OSD:9C	Color Correction (R R YI PHASE)
OSD:9E	Color Correction (R_K_TTPHASE) Color Correction (R_YI_YI GAIN/SATURATION)
JOD.8L	Toolor confection (IZ_II_II GAIN/OATOINATION)

Notification	Remarks
OSD:9F	Color Correction (R_YI_YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G_Cy GAIN/SATURATION)
OSD:91	Color Correction (G_Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OSD:AA	Color Correction (Cy_Cy_B GAIN/SATURATION)
OSD:AB	Color Correction (Cy_Cy_B PHASE)
OSD:AC	Color Correction (Cy_B_B GAIN/SATURATION)
OSD:AD	Color Correction (Cy_B_B PHASE)
OSD:C0	Color Correction (B_B_Mg GAIN/SATURATION)
OSD:C1	Color Correction (B_B_Mg PHASE)
OSD:C2	Color Correction (B_Mg_Mg GAIN/SATURATION)
OSD:C3	Color Correction (B_Mg_Mg PHASE)
OSD:C4 OSD:C5	Color Correction (YI_YI_G GAIN/SATURATION) Color Correction (YI_YI_G PHASE)
OSD:C6	Color Correction (YI G G GAIN/SATURATION)
OSD:C0	Color Correction (YI G G PHASE)
OHP	H PHASE *only AW-UE70/AW-HE42
OSD:B9	Format SDI *only AW-UE70/AW-HE42
DCB	COLOR BAR/CAMERA
OSD:BA	Color Bars Type *only AW-UE70/AW-HE42 or need AW-SFU01
OSD:BE	Bars Title *only AW-UE70/AW-HE42 or need AW-SFU01
OSA:D0	Audio Enable
OSA:D1	Audio Input Volume
OSA:D2	Audio Plugin Power
OSD:BB	Audio ALC *only AW-UE70/AW-HE42 or need AW-SFU01
OSD:BC	Audio Equalize *only AW-UE70/AW-HE42 or need AW-SFU01
sWZ	Speed With Zoom POS.
pST	Preset Speed Table
uPVS	Preset Speed
uTVS	Preset Speed
OSE:71	Preset Scope
pRF	Freeze During Preset
iNS	Installation position
OSA:88	OSD Status
OSE:75	OSD Off With Tally
wLC	Wireless Control
rID	Wireless Controller ID
rZL	IP image resolution
OVP:01	Model Select

Table 4-4-5 (In the case of the AK-UB300)

Notification	Remarks
OSA:87	Format
DCB	COLOR BAR/CAMERA
OSI:1D	Auto iris level
OFT	ND filter
XSF	Scene file
OSG:59	Shutter SW
OSG:5A	Shutter Mode
OSG:5D	Shutter Speed
OSA:65	Frame Mix
OGS	Gain select
OSA:50	LOW Gain
OSA:51	MID Gain
OSA:52	HIGH Gain
OSA:60	Super gain mode
OSG:39	R GAIN
OSG:3A	B GAIN
OSG:4A	Pedestal
OSG:4C	R PEDESTAL
OSG:4E	B PEDESTAL
OSG:A0	Color matrix
OSA:00	Matrix table
OSG:A5:N	Linear Matrix R-G(N)
OSG:A5:P	Linear Matrix R-G(P)
OSG:A6:N	Linear Matrix R-B(N)
OSG:A6:P	Linear Matrix R-B(P)
OSG:A7:N	Linear Matrix G-R(N)
OSG:A7:P	Linear Matrix G-R(P)
OSG:A8:N	Linear Matrix G-B(N)
OSG:A8:P	Linear Matrix G-B(P)
OSG:A9:N	Linear Matrix B-R(N)
OSG:A9:P	Linear Matrix B-R(P)
OSG:AA:N	Linear Matrix B-G(N)
OSG:AA:P	Linear Matrix B-G(P)
OSA:85	Color Correction
OSG:A4	Color correct table
OSD:86	Color Correction R GAIN SATURATION
OSD:87	Color Correction R PHASE
OSD:88	Color Correction R_YI GAIN SATURATION
OSD:89	Color Correction R_YI PHASE
OSD:8A	Color Correction YI GAIN SATURATION
OSD:8B	Color Correction YI PHASE
OSD:8C	Color Correction YI_G GAIN SATURATION
OSD:8D	Color Correction YI_G PHASE
OSD:8E	Color Correction G GAIN/ SATURATION

Table 4-4-5 (In the case of the AK-UB300) (Continued)

Notification	Remarks
OSD:8F	Color Correction G PHASE
OSD:90	Color Correction G_Cy GAIN SATURATION
OSD:91	Color Correction G Cy PHASE
OSD:91	Color Correction Cy GAIN SATURATION
OSD:93	
OSD:94	Color Correction Cy PHASE Color Correction Cy_B GAIN SATURATION
OSD:95	Color Correction Cy B PHASE
OSD:95	Color Correction B GAIN SATURATION
OSD:96	Color Correction B PHASE
OSD:80	
	Color Correction B_Mg GAIN SATURATION
OSD:81	Color Correction B_Mg PHASE
OSD:82	Color Correction Mg GAIN SATURATION
OSD:83	Color Correction Mg PHASE
OSD:84	Color Correction Mg_R GAIN SATURATION
OSD:85	Color Correction Mg_R PHASE
OSG:B0	Skin area SW
OSG:B1	Skin area table
OSG:B2	Skin area HUE
OSG:B3	Skin area TONE
OSG:93	Chroma Level SW
OSD:B0	Chroma Level
OSI:20	Color Temperature
ODT	Detail
OSA:30	TOTAL DTL LEVEL
OSA:31	H.DTL LEVEL
OSG:32	V.DTL LEVEL
OSG:30	PEAK FREQUENCY
OSG:35	V DETAIL FREQUENCY
OSD:22	NOISE SUPPRESS/CRISP
OSA:38	DETAIL (+)
OSA:39	DETAIL (-)
OSG:40	DETAIL +CLIP
OSG:41	DETAIL -CLIP
OSA:3B	DETAIL SOURCE
OSG:3F	KNEE APERTURE LEVEL
OSG:3E	LEVEL DEPENDENT SW
OSD:26	LEVEL DEPENDENT
OSA:40	SKIN TONE DETAIL
OSA:41	SKIN GET
OSG:42	MEMORY SELECT
OSG:44	H POSITION
OSG:45	V POSITION
OSA:49	SKIN TONE ZEBRA
OSG:47	ZEBRA EFFECT MEMORY

Table 4-4-5 (In the case of the AK-UB300) (Continued)

Notification	Remarks
OSG:48	SKIN TONE EFFECT MEMORY
OSG:49	SKIN TONE CRISP
OSA:45	SKIN TONE DTL I CENTER
OSA:46	SKIN TONE DTL I WIDTH
OSA:47	SKIN TONE DTL Q WIDTH
OSG:4F	SKIN TONE Q PHASE
OSD:3A	DNR
OSG:B5	DNR LEVEL
OSG:B6	HAZE REDUCTION
OSG:B7	HAZE REDUCTION LEVEL
OSG:CA	GEN-LOCK INPUT
OSG:CB	H PHASE-COARSE
OSG:CC	H PHASE-FINE
OSI:16	CROP OUT SEL
OSI:17	CROP ADJ SEL
OSI:1A	CROP MARKER SEL
OSI:1B	CROP H POSITION
OSI:1C	CROP V POSITION
OSE:7B	OSD Mix
OSA:88	OSD Status
ORS	IRIS AUTO/MANUAL
ORV	MANUAL IRIS VOLUME
OSD:48	IRIS OFFSET
OSA:84	MATRIX TABLE (LINEAR MATRIX)
OSI:32	Crop SDI Out Select
OSI:33	Crop IP Out Select
OSI:2C	HDR SW (MAIN)
OSI:2D	COLORIMETRY
OSI:2E	HDR SW (SDI1)
OSI:2F	HDR SW (IP)
OSA:0D	DRS SW
OSI:30	Shootong Mode
OSI:31	HDR SW (SDI2)
OSA:11	FLARE SW
OSG:96	MASTER FLARE
OSD:35	R FLARE
OSD:36	G FLARE
OSD:37	B FLARE
OSA:0A	GAMMA SW
OSG:86	GAMMA MODE SELECT
OSI:34	MASTER GAMMA

Table 4-4-5 (In the case of the AK-UB300) (Continued)

Notification	Remarks
OSI:35	R GAMMA
OSI:36	B GAMMA
OSA:0F	F-REC Black STR LVL
OSA:10	F-REC Dynamic LVL
OSA:21	V-REC Knee Point
OSA:25	V-REC Knee Slope
OSA:0B	BLACK GAMMA SW
OSA:07	MASTER BLACK GAMMA
OSA:08	R BLACK GAMMA
OSA:09	B BLACK GAMMA
OSA:2D	KNEE SW
OSA:20	MASTER KNEE POINT
OSA:22	R KNEE POINT
OSA:23	B KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSA:26	R KNEE SLOPE
OSA:27	B KNEE SLOPE
OSA:28	AUTO KNEE POINT
OSA:29	AUTO KNEE LEVEL
OSG:97	AUTO KNEE RESPONSE
OSI:39	HLG MODE
OSI:3A	HLG SDR CONVERT MODE
OSI:3B	HLG TYPE SELECT
OSI:3C	HLG BLACK GAMMA SW
OSI:3D	HLG MASTER BLACK GAMMA
OSI:3E	HLG R BLACK GAMMA
OSI:3F	HLG B BLACK GAMMA
OSI:40	HLG KNEE SW
OSI:41	HLG KNEE POINT
OSI:42	HLG KNEE SLOPE
OSI:43	HLG SDR CONVERT GAIN
OSI:44	HLG SDR CONVERT CLIP
ODE	Digital Extender

Table 4-4-6 (In the case of the AW-HR140)

Notification	Remarks
XSF	Scene file
OSD:48	Picture Level
ORS	Iris Mode
OSH	Shutter Mode
OMS	Step/Synchro
OGU	Gain
OSD:69	AGC Max Gain
OSA:65	Frame Mix
OFT	ND Filter
d6	Day/Night
OSD:B0	Chroma Level
OAW	White Balance Mode
OSD:B1	Color Temperature
ORI	R Gain
OBI	B Gain
OTP	Pedestal
ORP	R Pedestal
OBP	B Pedestal
ODT	Detail
OSA:30	Master Detail
OSD:A1	V Detail Level
OSD:A2	Detail Band
OSD:22	Noise Suppress
OSD:A3	FleshTone NoiseSUP.
OSE:72	Gamma Type
OSA:6A	Gamma
OSE:33	DRS
OSA:2D	Knee Mode
OSA:20	MASTER KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSA:2E	White Clip
OSA:2A	White Clip Level
OSD:3A	DNR
OSE:31	Matrix Type
OSD:A4	Linear Matrix (R-G)
OSD:A5	Linear Matrix (R-B)
OSD:A6	Linear Matrix (G-R)
OSD:A7	Linear Matrix (G-B)
OSD:A8	Linear Matrix (B-R)
OSD:A9	Linear Matrix (B-G)
OSD:80	Color Correction (B Mg GAIN/SATURATION)
OSD:81	Color Correction (B_Mg PHASE)
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)

Table 4-4-6 (In the case of the AW-HR140) (continued)

Notification	Remarks
OSD:84	Color Correction (Mg R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:9A	Color Correction (Mg_R_R GAIN/SATURATION)
OSD:9B	Color Correction (Mg_R_R_R PHASE)
OSD:86	Color Correction (Nig_IN_FINAL) Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:07	Color Correction (R R YI GAIN/SATURATION)
OSD:9D	Color Correction (R_R_H GAIN/SATURATION) Color Correction (R_R_YI PHASE)
OSD:88	Color Correction (R_N_TTFTIASE) Color Correction (R_YI GAIN/SATURATION)
OSD:89	Color Correction (R_YI PHASE)
OSD:9E	Color Correction (R_TFFHASE) Color Correction (R_YI_YI GAIN/SATURATION)
	, = = ,
OSD:9F	Color Correction (R_YI_YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8C	Color Correction (YI_G GAIN/SATURATION)
OSD:8D	Color Correction (YI_G PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G_Cy GAIN/SATURATION)
OSD:91	Color Correction (G_Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:94	Color Correction (Cy_B GAIN/SATURATION)
OSD:95	Color Correction (Cy_B PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OHP	Horizontal Phase
iNS	Installation position
sPF	Smart Picture Flip
fDA	Flip Detect Angle
pST	Preset Speed Table
uPVS	Preset Speed
OSE:71	Preset Scope
pRF	Freeze During Preset
sWZ	Speed With Zoom POS.
OAF	Focus Mode
OAZ	Focus ADJ With PTZ.
OSE:70	Digital Zoom
OSE:7A	Max Digital Zoom
ODE	Digital Extender
OIS	OIS

Table 4-4-6 (In the case of the AW-HR140) (continued)

Notification	Remarks
OSE:7B	OSD Mix
OSE:75	OSD Off With Tally
OSA:88	OSD Status
OSA:D0	Audio Enable
OSA:D1	Audio Input Volume
OSA:D2	Audio Plugin Power
OVP:01	Model Select
OSG:B6	HAZE REDUCTION
OSG:B7	HAZE REDUCTION LEVEL
OSE:7C	Preset Digital Extender Enable
OSE:7D	Preset Zoom Mode
OSI:28	Super Gain
OSI:25	ATW Speed
OSI:26	ATW Width
OSI:21	Intelligent
OSI:22	Intelligent Mode
OSI:23	Intelligent ND Filter
OSI:24	Intelligent AGC Mode
OSI:29	3G SDI Out
OSA:D4	Audio Line Input Level
OSA:D5	Audio Output Volume
OSA:D6	Audio Head Room
OSA:D7	Audio Line CH Select
OSI:2B	DC Out
d7	Defroster Control
d8	Wiper Control
d9	Heater Control
fAN	FAN
wIP	Wiper
wAS	Washer
fS1	Fan Status1
fS2	Fan Status2
hS	Heater Status
dS	Defroster Status
wPT	Washer PT Position
wPR	Washer PT Position Reset

Table 4-4-7 (In the case of the AW-UE150)

Notification	Remarks
XSF	Scene File
OSD:48	Picture Level
ORS	Iris Mode
d3	Iris Mode
OSJ:01	Auto Iris Speed
OSJ:02	Auto Iris Opeeu Auto Iris Window
OSJ:03	Shutter Mode
OSJ:06	Step VAL
OSJ:09	Synchro VAL
	ELC Limit (AutoShutterLimit)
OSD:BF	Gain
OGU OSI:28	Super Gain
OSD:69	AGC Max Gain
OSD:09	Fram Mix
OSA.05	
d6	ND Filter
OAW	Day/Night
OSI:20	White Balance Mode
	COLOR TEMPERATURE
OSG:39	R Gain
OSG:3A	B Gain
OSJ:0C	AWB Gain Offset
OSI:25	ATW Speed
OSJ:0D	ATW Target R
OSJ:0E	ATW Target B
OSD:B0	Chroma Level
OSJ:0B	Chroma Phase
OSJ:0F	Master Pedestal
ORP	R Pedestal
OSJ:10	R Pedestal
OBP	B Pedestal
OSJ:11	Pedestal Offset
ODT	Detail
OSA:30	Master Detail
OSJ:12	Detail Coring
OSD:A1	V Detail Level
OSD:A2	Detail Frequency
OSJ:13	Level Depend.
OSG:3F	Knee Ape. Level
OSA:38	Detail Gain(+)
OSA:39	Detail Gain(-)
OSA:40	Skin Detail
OSD:A3	Skin Detail Effect
OSJ:14	DownCon Detail
OSJ:15	DC. Master Detail
OSJ:16	DC. Detail Coring
OSJ:17	DC. V Detail Level
OSJ:18	DC. Detail Frequency

Notification	Remarks
OSJ:19	DC. Level Depend.
OSJ:1A	DC. Knee Ape Level
OSE:72	Gamma Mode
OSA:6A	Gamma
OSA:10	F-REC Dynamic LVL
OSA:0F	F-REC Black STR LVL
OSA:25	V-REC Knee Slope
OSA:21	V-REC Knee Point
OSA:07	MASTER BLACK GAMMA
OSJ:1B	B.Gamma Range
OSE:33	DRS
OSA:2D	Knee Mode
OSG:97	AUTO KNEE RESPONSE
OSA:20	MASTER KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSI:40	HLG KNEE SW
OSI:41	HLG KNEE POINT
OSI:42	HLG KNEE SLOPE
OSA:2E	White Clip
OSA:2A	White Clip Level
OSD:3A	DNR
OSE:31	MATRIX TYPE
OSD:A4	MATRIX(R-G)
OSD:A5	MATRIX(R-B)
OSD:A6	MATRIX(G-R)
OSD:A7	MATRIX(G-B)
OSD:A8	MATRIX(B-R)
OSD:A9	MATRIX(B-G)
OSD:80	B_Mg (SATURATION)
OSD:81	B_Mg (PHASE)
OSD:82	Mg (SATURATION)
OSD:83	Mg (PHASE)
OSD:84	Mg_R (SATURATION)
OSD:85	Mg_R (PHASE)
OSD:9A	Mg_R_R (SATURATION)
OSD:9B	Mg_R_R (PHASE)
OSD:86	R (SATURATION)
OSD:87	R (PHASE)
OSD:9C	R_R_YI (SATURATION)
OSD:9D	R_R_YI (PHASE)
OSD:88	R_YI (SATURATION)
OSD:89	R_YI (PHASE)
OSD:9E	R_YI_YI (SATURATION)
OSD:9F	R_YI_YI (PHASE)
OSD:8A	YI (SATURATION)
OSD:8B	YI (PHASE)
OSJ:1C	YI_YI_G Saturation
OSJ:1D	YI_YI_G Phase

Notification	Remarks
OSD:8C	YI_G (SATURATION)
OSD:8D	YI_G (PHASE)
OSD:8E	G (SATURATION)
OSD:8F	G (PHASE)
OSD:90	G_Cy (SATURATION)
OSD:91	G_Cy (PHASE)
OSD:92	Cy (SATURATION)
OSD:93	Cy (PHASE)
OSD:94	Cy_B (Saturation)
OSD:95	Cy_B (PHASE)
OSD:96	B (SATURATION)
OSD:97	B (PHASE)
OAF	FOCUS MODE
d1	Extender/AF Control
OSE:70	Digital Zoom Disable/Enable
OSD:B3	i.zoom
OSE:7A	MAXIMUM DIGITAL ZOOM
ODE	Digital Extender Off/On XNotyfy for previous version compatibility
OSJ:4E	Digital Extender
OIS	OIS
ORV	MANUAL IRIS VOLUME
OSE:76	D-Zoom Magnification
OSI:30	Shooting Mode
OSJ:56	Color Setting
OHP	Horizontal Phase
wLC	Wireless Control
fAN	FAN
fA2	FAN2
rZL	Resolution Control
OSJ:54	Tracking Data Output (Serial)
OSJ:55	Tracking Data Output (IP)
OSJ:1E	12G SDI/Fiber Out Format
OSJ:20	3G SDI Out
OSJ:57	12G SDI/Fiber Out V-Log Output Select
OSJ:21	3G SDI Out Format
OSJ:22	HDR Output Select
OSI:29	3G SDI Out
OSJ:58	3G SDI Out V-Log Output Select
OSJ:23	MONI Out Format
OSJ:24	HDR Output Select
OSJ:59	MONI Out V-Log Output Select
OSJ:25	HDMI Out Format
OSJ:26	HDR Output Select
OSE:68	Video Sampling (HDMI COLOR)
OSJ:5A	HDMI Out V-Log Output Select
DCB	Bar
OSD:BA	Color Bar Type
OSJ:27	Tone

Notification	Remarks
OSA:D0	Audio
OSA:D1	Input Type
OSA:D5	Volume Level
OSA:D2	Plugin Power
OSE:7B	OSD Mix
OSE:75	OSD Off With R-Tally
OSA:88	OSD Status
tAE	Tally Enable
OSA:D3	Tally Brightness
IMP	Status Lamp
OSJ:41	Output1
OSJ:42	Output2
OSJ:2E	UHD Crop
OSI:32	Crop SDI Out Select
OSI:16	Crop Out
OSI:1A	Crop Marker
OSI:17	Crop Adjust.
OSJ:2F	Crop H POS. (YL)
OSJ:30	Crop V POS. (YL)
OSJ:31	Crop H POS. (G)
OSJ:32	Crop V POS. (G)
OSJ:33	Crop H POS. (MG)
OSJ:34	Crop V POS. (MG)
iNS	Install Position
sPF	Smart Picture Flip
fDA	Flip Detect Angle
OSJ:2D	PT. Speed Mode
sWZ	Speed With Zoom POS.
OAZ	Focus ADJ With PTZ
OSJ:45	Power On Position
OSJ:46	Power On Preset Number
OSJ:29	Preset Speed Unit
pST	Preset Speed Table
uTVS	Preset Speed
uPVS	Preset Speed
OSE:71	Preset Scope
OSE:7C	Preset D-Extender
OSJ:2A	Preset Crop
OSJ:2B	Preset Thumbnail Update
OSJ:2C	Preset Name
OSE:7D	Preset Zoom Mode
pRF	Freeze During Preset
OSJ:5B	Preset Iris
OSJ:4F	Adaptive Matrix
OSJ:1F	12G SDI/Fiber Out HDR Output Select
OSI:33	Crop IP Out Select
OSJ:4A	AWB COLOR TEMPERATURE
OSJ:4B	AWB R Gain

Notification	Remarks
OSJ:4C	AWB B Gain
OSJ:4D	AWB G Axis

The sequence during setting value initialization is as follows.

[Setting value initialization sequence]

The items whose settings have been changed by initialization are notified in succession when the settings are initialized using the OSD menu of the camera or from the web screen.

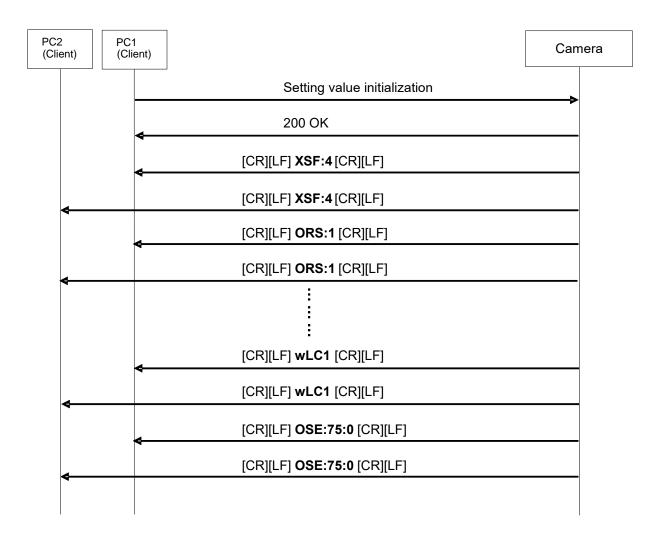


Fig.4-6 Setting value initialization

4.3.3. Scene file selection

The contents of the table below are posted in succession by the update notifications when scene files have been switched.

Table 4-5-1 (In the case of the AW-HE50/AW-HE60)

Notification	Remarks
XSF	Scene file
ORS	Iris (Auto/Manual)
OSD:48	Contrast level
OSH	Shutter
OMS	Synchro scan
OGU	Gain
OSA:65	Frame mix
OSD:69	Maximum gain value
OSE:74	Maximum frame mix value
OCG	Chroma level
OAW	AWB (AWC) mode
ODT	Detail
OSA:B1	TOTAL DTL LEVEL HIGH **Supported only by AW-HE60 CameraMain V3.05 or subsequent versions.
OSA:30	TOTAL DTL LEVEL **Supported only by AW-HE60 CameraMain V3.05 or subsequent versions.
OSE:32	Flesh Tone Mode
OSE:31	Color matrix
OSD:3A	Digital noise reduction (DNR)
ORG	R GAIN %The AW-HE50 is supported by Ver.2 or a later version.
OBG	B GAIN
OTD	Pedestal
OSE:72	Gamma type
OSD:50	Gamma level
OSE:73	Backlight compensation
OSE:33	DRS
d6	Option switch **Only supported by the AW-HE60.

Table 4-5-2 (In the case of the AW-HE120)

Notification	Remarks
XSF	Scene file
ORS	Iris (Auto/Manual)
OSD:48	Picture level
OSH	Shutter
OMS	Synchro scan
OGU	Gain
OSA:65	Frame mix
OSD:69	Maximum gain value
OSE:74	Maximum frame mix value
OCG	Chroma level
OAW	AWB (AWC) mode
ODT	Detail
OSE:31	Color matrix
OSD:3A	Digital noise reduction (DNR)
ORI	R GAIN
OBI	B GAIN
OTP	Pedestal
ORP	R PEDESTAL
OBP	B PEDESTAL
OSE:72	Gamma type
OSD:50	Gamma level
OSD:2F	Linear Matrix (R-G)
OSD:30	Linear Matrix (R-B)
OSD:31	Linear Matrix (G-R)
OSD:32	Linear Matrix (G-B)
OSD:33	Linear Matrix (B-R)
OSD:34	Linear Matrix (B-G)
OSD:0A	H Detail Level H
OSD:0E	V Detail Level H
OSD:12	H Detail Level L
OSD:16	V Detail Level L
OSD:1E	Detail Band
OSD:22	Noise Suppress
OSD:4B	FleshTone Noise Suppress
OSD:80	Color Correction (B_Mg GAIN/SATURATION)
OSD:81	Color Correction (B_Mg PHASE)
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)
OSD:84	Color Correction (Mg_R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:88	Color Correction (R_YI GAIN/SATURATION)
OSD:89	Color Correction (R_YI PHASE)

Table 4-5-2 (In the case of the AW-HE120) (continued)

Notification	Remarks
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8C	Color Correction (YI_G GAIN/SATURATION)
OSD:8D	Color Correction (YI_G PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G_Cy GAIN/SATURATION)
OSD:91	Color Correction (G_Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:94	Color Correction (Cy_B GAIN/SATURATION)
OSD:95	Color Correction (Cy_B PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OFT	ND Filter
OSE:33	DRS
OAF	Focus Auto/Manual
OSE:7B	OSD Mix
OHP	Horizontal Phase
ORV	Iris Mode (AUTO/MANUAL)
OSA:87	Format
OSA:88	OSD Status
OSE:20	DownCONV.Mode
OSE:68	HDMI COLOR
OSE:70	DIGITAL ZOOM ENABLE
OSE:71	PRESET SCOPE
OSE:75	OSD Off With Tally
OSE:77	Frequency
OSE:7A	Maximum Digital Zoom
DCB	COLOR BAR/CAMERA
OAZ	Focus ADJ with PTZ
DCS	Color Bars Setup
OSD:65	OUTPUT SELECT

Table 4-5-3 (In the case of the AW-HE130)

Notification	Remarks
XSF	Scene file
OSD:48	Picture Level
ORS	Iris Mode
OSH	Shutter Mode
OMS	Step/Synchro
OGU	Gain
OSD:69	AGC Max Gain
OSA:65	Frame Mix
OFT	ND Filter
d6	Day/Night
OSD:B0	Chroma Level
OAW	White Balance Mode
OSD:B1	Color Temperature
ORI	R Gain
OBI	B Gain
OTP	Pedestal
ORP	R Pedestal
OBP	B Pedestal
ODT	Detail
OSA:30	Master Detail
OSD:A1	V Detail Level
OSD:A2	Detail Band
OSD:22	Noise Suppress
OSD:A3	FleshTone NoiseSUP.
OSE:72	Gamma Type
OSA:6A	Gamma
OSE:33	DRS
OSA:2D	Knee Mode
OSA:20	MASTER KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSA:2E	White Clip
OSA:2A	White Clip Level
OSD:3A	DNR
OSE:31	Matrix Type
OSD:A4	Linear Matrix (R-G)
OSD:A5	Linear Matrix (R-B)
OSD:A6	Linear Matrix (G-R)
OSD:A7	Linear Matrix (G-B)
OSD:A8	Linear Matrix (B-R)
OSD:A9	Linear Matrix (B-G)
OSD:80	Color Correction (B_Mg GAIN/SATURATION)
OSD:81	Color Correction (B_Mg PHASE)
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)

Table 4-5-3 (In the case of the AW-HE130) (continued)

Notification	Remarks
OSD:84	Color Correction (Mg_R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:9A	Color Correction (Mg_R_R GAIN/SATURATION)
OSD:9B	Color Correction (Mg_R_R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:9C	Color Correction (R_R_YI GAIN/SATURATION)
OSD:9D	Color Correction (R_R_YI PHASE)
OSD:88	Color Correction (R_YI GAIN/SATURATION)
OSD:89	Color Correction (R_YI PHASE)
OSD:9E	Color Correction (R_YI_YI GAIN/SATURATION)
OSD:9F	Color Correction (R_YI_YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8C	Color Correction (YI_G GAIN/SATURATION)
OSD:8D	Color Correction (YI_G PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G_Cy GAIN/SATURATION)
OSD:91	Color Correction (G_Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:94	Color Correction (Cy_B GAIN/SATURATION)
OSD:95	Color Correction (Cy_B PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OSE:7C	Preset Digital Extender Enable
IMP	Status Display Lamp

Table 4-5-4 (In the case of the AW-HE40/AW-UE70/AW-HE42)

Notification	Remarks
XSF	Scene file
ORS	Iris Mode
d3	Iris Auto/Manual
OSH	Shutter Mode
OMS	Step/Synchro
OSD:BF	AutoShutterLimit
OGU	Gain
OSD:69	AGC Max Gain
OSA:65	Frame Mix
OSE:74	Maximum frame mix value
OFT	ND Filter
OCG	Chroma Level
OSD:48	Picture Level
OSE:73	BACK LIGHT COMPENSATION
OAW	White Balance Mode
OSD:B1	Color Temperature
OTD	Pedestal
ODT	Detail
OSA:30	Master Detail
OSA:B1	TOTAL DTL LEVEL HIGH
OSE:32	SOFT SKIN
OSE:72	Gamma Type
OSD:50	Gamma Level
OSE:33	DRS
OSD:3A	DNR
d6	Day/Night
OSD:B2	Night Mode Sel
OSD:B7	NIGHT-DAY LEVEL
OSD:B4	HDR
OSE:31	Matrix Type
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)
OSD:84	Color Correction (Mg_R GAIN/SATURATION)
OSD:85	Color Correction (Mg R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:9C	Color Correction (R R YI GAIN/SATURATION)
OSD:9D	Color Correction (R R YI PHASE)
OSD:9E	Color Correction (R YI YI GAIN/SATURATION)
OSD:9F	Color Correction (R YI YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G Cy GAIN/SATURATION)
OSD:91	Color Correction (G_Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OSD:AA	Color Correction (Cy_Cy_B GAIN/SATURATION)
OSD:AB	Color Correction (Cy_Cy_B PHASE)
OSD:AC	Color Correction (Cy B B GAIN/SATURATION)

Notification	Remarks
OSD:AD	Color Correction (Cy_B_B PHASE)
OSD:C0	Color Correction (B_B_Mg GAIN/SATURATION)
OSD:C1	Color Correction (B_B_Mg PHASE)
OSD:C2	Color Correction (B_Mg_Mg GAIN/SATURATION)
OSD:C3	Color Correction (B_Mg_Mg PHASE)
OSD:C4	Color Correction (YI_YI_G GAIN/SATURATION)
OSD:C5	Color Correction (YI_YI_G PHASE)
OSD:C6	Color Correction (YI_G_G GAIN/SATURATION)
OSD:C7	Color Correction (YI_G_G PHASE)

Table 4-5-5 (In the case of the AK-UB300)

Notification	Table 4-5-5 (In the case of the AK-UB300) Remarks
OFT	ND filter
XSF	Scene file
OSG:59	Shutter SW
OSG:5A	Shutter Mode
OSG:5D	Shutter Speed
OSA:65	Frame mix
OGS	Gain select
OSA:50	LOW Gain
OSA:51	MID Gain
OSA:52	HIGH Gain
OSA:60	Super gain mode
OSG:39	R GAIN
OSG:3A	B GAIN
OSG:4A	Pedestal
OSG:4C	R PEDESTAL
OSG:4E	B PEDESTAL
OSG:A0	Color Matrix
OSA:00	Matrix Table
OSG:A5:N	Linear Matrix R-G(N)
OSG:A5:P	Linear Matrix R-G(P)
OSG:A6:N	Linear Matrix R-B(N)
OSG:A6:P	Linear Matrix R-B(P)
OSG:A7:N	Linear Matrix G-R(N)
OSG:A7:P	Linear Matrix G-R(P)
OSG:A8:N	Linear Matrix G-B(N)
OSG:A8:P	Linear Matrix G-B(P)
OSG:A9:N	Linear Matrix B-R(N)
OSG:A9:P	Linear Matrix B-R(P)
OSG:AA:N	Linear Matrix B-G(N)
OSG:AA:P	Linear Matrix B-G(P)
OSA:85	Color Correction
OSG:A4	Color correct table
OSD:86	Color Correction R GAIN SATURATION
OSD:87	Color Correction R PHASE
OSD:88	Color Correction R_YI GAIN SATURATION
OSD:89	Color Correction R_YI PHASE
OSD:8A	Color Correction YI GAIN SATURATION
OSD:8B	Color Correction YI PHASE
OSD:8C	Color Correction YI_G GAIN SATURATION
OSD:8D	Color Correction YI_G PHASE
OSD:8E	Color Correction G GAIN/ SATURATION
OSD:8F	Color Correction G PHASE
OSD:90	Color Correction G_Cy GAIN SATURATION
OSD:91	Color Correction G_Cy PHASE

Table 4-5-5 (In the case of the AK-UB300) (Continued)

Notification	Remarks
OSD:92	Color Correction Cy GAIN SATURATION
OSD:93	Color Correction Cy PHASE
OSD:94	Color Correction Cy B GAIN SATURATION
OSD:95	Color Correction Cy B PHASE
OSD:96	Color Correction B GAIN SATURATION
OSD:97	Color Correction B PHASE
OSD:80	Color Correction B_Mg GAIN SATURATION
OSD:81	Color Correction B_Mg PHASE
OSD:82	Color Correction Mg GAIN SATURATION
OSD:83	Color Correction Mg PHASE
OSD:84	Color Correction Mg_R GAIN SATURATION
OSD:85	Color Correction Mg_R PHASE
OSG:B0	Skin area SW
OSG:B1	Skin area table
OSG:B2	Skin area HUE
OSG:B3	Skin area TONE
OSG:93	Chroma Level SW
OSD:B0	Chroma Level
OSI:20	Color Temperature
ODT	Detail
OSA:30	TOTAL DTL LEVEL
OSA:31	H.DTL LEVEL
OSG:32	V.DTL LEVEL
OSG:30	PEAK FREQUENCY
OSG:35	V DETAIL FREQUENCY
OSD:22	NOISE SUPPRESS/CRISP
OSA:38	DETAIL (+)
OSA:39	DETAIL (-)
OSG:40	DETAIL +CLIP
OSG:41	DETAIL -CLIP
OSA:3B	DETAIL SOURCE
OSG:3F	KNEE APERTURE LEVEL
OSG:3E	LEVEL DEPENDENT SW
OSD:26	LEVEL DEPENDENT
OSA:40	SKIN TONE DETAIL
OSA:41	SKIN GET
OSG:42	MEMORY SELECT
OSG:44	H POSITION
OSG:45	V POSITION
OSA:49	SKIN TONE ZEBRA
OSG:47	ZEBRA EFFECT MEMORY
OSG:48	SKIN TONE EFFECT MEMORY
OSG:49	SKIN TONE CRISP
OSA:45	SKIN TONE DTL I CENTER

Table 4-5-5 (In the case of the AK-UB300) (Continued)

Notification	Remarks
OSA:46	SKIN TONE DTL I WIDTH
OSA:47	SKIN TONE DTL Q WIDTH
OSG:4F	SKIN TONE Q PHASE
OSD:3A	DNR
OSG:B5	DNR LEVEL
OSG:B6	HAZE REDUCTION
OSG:B7	HAZE REDUCTION LEVEL
OSE:7B	OSD Mix
OSA:88	OSD Status
ODE	Digital Extender
OSA:11	FLARE SW
OSA:0A	GAMMA SW
OSA:0B	BLACK GAMMA SW
OSA:2D	Knee Mode
OSA:0D	DRS SW
OSG:96	MASTER FLARE
OSD:35	R FLARE
OSD:36	G FLARE
OSD:37	B FLARE
OSG:86	GAMMA MODE SELECT
OSI:34	MASTER GAMMA
OSI:35	R GAMMA
OSI:36	B GAMMA
OSA:0F	F-REC Black STR LVL
OSA:10	F-REC Dynamic LVL
OSA:21	V-REC Knee Point
OSA:25	V-REC Knee Slope
OSA:07	MASTER BLACK GAMMA
OSA:08	R BLACK GAMMA
OSA:09	B BLACK GAMMA
OSA:22	R KNEE POINT
OSA:23	B KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSA:26	R KNEE SLOPE
OSA:27	B KNEE SLOPE
OSA:28	AUTO KNEE POINT
OSA:29	AUTO KNEE LEVEL
OSG:97	AUTO KNEE RESPONSE
OSD:22	CRISP
OSA:3B	DETAIL SOURCE
OSG:3F	KNEE APERTURE LEVEL
OSG:3E	LEVEL DEPENDENT SWITCH
OSD:26	LEVEL DEPENDENT

Table 4-5-5 (In the case of the AK-UB300) (Continued)

Notification	Remarks
OSA:40	SKIN TONE DETAIL
OSA:41	SKIN GET
OSG:A0	MATRIX
OSA:84	LINEAR MATRIX
OSA:85	COLOR CORRECT
OSI:39	HLG MODE
OSI:3A	HLG SDR CONVERT MODE
OSI:3B	HLG TYPE SELECT
OSI:3C	HLG BLACK GAMMA SW
OSI:3D	HLG MASTER BLACK GAMMA
OSI:3E	HLG R BLACK GAMMA
OSI:3F	HLG B BLACK GAMMA
OSI:40	HLG KNEE SW
OSI:41	HLG KNEE POINT
OSI:42	HLG KNEE SLOPE
OSI:43	HLG SDR CONVERT GAIN
OSI:44	HLG SDR CONVERT CLIP

Table 4-5-6 (In the case of the AW-HR140)

Notification	Remarks
XSF	Scene file
OSD:48	Picture Level
ORS	Iris Mode
OSH	Shutter Mode
OMS	Step/Synchro
OGU	Gain
OSD:69	AGC Max Gain
OSA:65	Frame Mix
OFT	ND Filter
d6	Day/Night
OSD:B0	Chroma Level
OAW	White Balance Mode
OSD:B1	Color Temperature
ORI	R Gain
OBI	B Gain
OTP	Pedestal
ORP	R Pedestal
OBP	B Pedestal
ODT	Detail
OSA:30	Master Detail
OSD:A1	V Detail Level
OSD:A2	Detail Band
OSD:22	Noise Suppress
OSD:A3	FleshTone NoiseSUP.
OSE:72	Gamma Type
OSA:6A	Gamma
OSE:33	DRS
OSA:2D	Knee Mode
OSA:20	MASTER KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSA:2E	White Clip
OSA:2A	White Clip Level
OSD:3A	DNR
OSE:31	Matrix Type
OSD:A4	Linear Matrix (R-G)
OSD:A5	Linear Matrix (R-B)
OSD:A6	Linear Matrix (G-R)
OSD:A7	Linear Matrix (G-B)
OSD:A8	Linear Matrix (B-R)
OSD:A9	Linear Matrix (B-G)
OSD:80	Color Correction (B_Mg GAIN/SATURATION)
OSD:81	Color Correction (B_Mg PHASE)
OSD:82	Color Correction (Mg GAIN/SATURATION)
OSD:83	Color Correction (Mg PHASE)

Table 4-5-6 (In the case of the AW-HR140) (continued)

Notification	Remarks
OSD:84	Color Correction (Mg_R GAIN/SATURATION)
OSD:85	Color Correction (Mg_R PHASE)
OSD:9A	Color Correction (Mg_R_R GAIN/SATURATION)
OSD:9B	Color Correction (Mg_R_R PHASE)
OSD:86	Color Correction (R GAIN/SATURATION)
OSD:87	Color Correction (R PHASE)
OSD:9C	Color Correction (R_R_YI GAIN/SATURATION)
OSD:9D	Color Correction (R_R_YI PHASE)
OSD:88	Color Correction (R_YI GAIN/SATURATION)
OSD:89	Color Correction (R_YI PHASE)
OSD:9E	Color Correction (R_YI_YI GAIN/SATURATION)
OSD:9F	Color Correction (R_YI_YI PHASE)
OSD:8A	Color Correction (YI GAIN/SATURATION)
OSD:8B	Color Correction (YI PHASE)
OSD:8C	Color Correction (YI_G GAIN/SATURATION)
OSD:8D	Color Correction (YI_G PHASE)
OSD:8E	Color Correction (G GAIN/SATURATION)
OSD:8F	Color Correction (G PHASE)
OSD:90	Color Correction (G_Cy GAIN/SATURATION)
OSD:91	Color Correction (G_Cy PHASE)
OSD:92	Color Correction (Cy GAIN/SATURATION)
OSD:93	Color Correction (Cy PHASE)
OSD:94	Color Correction (Cy_B GAIN/SATURATION)
OSD:95	Color Correction (Cy_B PHASE)
OSD:96	Color Correction (B GAIN/SATURATION)
OSD:97	Color Correction (B PHASE)
OSG:B6	HAZE REDUCTION
OSG:B7	HAZE REDUCTION LEVEL
OSE:7C	Preset Digital Extender Enable
OSE:7D	Preset Zoom Mode
OSI:28	Super Gain
OSI:25	ATW Speed
OSI:26	ATW Width
OSI:21	Intelligent
OSI:22	Intelligent Mode
OSI:23	Intelligent ND Filter
OSI:24	Intelligent AGC Mode
OSI:29	3G SDI Out
OSA:D4	Audio Line Input Level
OSA:D5	Audio Output Volume
OSA:D6	Audio Head Room
OSA:D7	Audio Line CH Select
OSI:2B	DC Out
d7	Defroster Control
d8	Wiper Control
d9	Heater Control
fAN	FAN
	I

Notification	Remarks
wIP	Wiper
wAS	Washer
fS1	Fan Status1
fS2	Fan Status2
hS	Heater Status
dS	Defroster Status
wPT	Washer PT Position
wPR	Washer PT Position Reset

Table 4-5-7 (In the case of the AW-UE150)

Notification	Remarks
XSF	Scene File
OSD:48	Picture Level
ORS	Iris Mode
d3	Iris Mode
OSJ:01	Auto Iris Speed
OSJ:02	Auto Iris Window
OSJ:03	Shutter Mode
OSJ:06	Step VAL
OSJ:09	Synchro VAL
OSD:BF	ELC Limit (AutoShutterLimit)
OGU	Gain
OSI:28	Super Gain
OSD:69	AGC Max Gain
OSA:65	Fram Mix
OFT	ND Filter
d6	Day/Night
OAW	White Balance Mode
OSI:20	COLOR TEMPERATURE
OSG:39	R Gain
OSG:3A	B Gain
OSJ:0C	AWB Gain Offset
OSI:25	ATW Speed
OSJ:0D	ATW Target R
OSJ:0E	ATW Target B
OSD:B0	Chroma Level
OSJ:0B	Chroma Phase
OSJ:0F	Master Pedestal
ORP	R Pedestal
OSJ:10	R Pedestal
OBP	B Pedestal
OSJ:11	Pedestal Offset
ODT	Detail
OSA:30	Master Detail
OSJ:12	Detail Coring
OSD:A1	V Detail Level

Notification	Remarks
OSD:A2	Detail Frequency
OSJ:13	Level Depend.
OSG:3F	Knee Ape. Level
OSA:38	Detail Gain(+)
OSA:39	Detail Gain(-)
OSA:40	Skin Detail
OSD:A3	Skin Detail Effect
OSJ:14	DownCon Detail
OSJ:15	DC. Master Detail
OSJ:16	DC. Detail Coring
OSJ:17	DC. V Detail Level
OSJ:18	DC. Detail Frequency
OSJ:19	DC. Level Depend.
OSJ:1A	DC. Knee Ape Level
OSE:72	Gamma Mode
OSA:6A	Gamma
OSA:10	F-REC Dynamic LVL
OSA:0F	F-REC Black STR LVL
OSA:25	V-REC Knee Slope
OSA:21	V-REC Knee Point
OSA:07	MASTER BLACK GAMMA
OSJ:1B	B.Gamma Range
OSE:33	DRS
OSA:2D	Knee Mode
OSG:97	AUTO KNEE RESPONSE
OSA:20	MASTER KNEE POINT
OSA:24	MASTER KNEE SLOPE
OSI:40	HLG KNEE SW
OSI:41	HLG KNEE POINT
OSI:42	HLG KNEE SLOPE
OSA:2E	White Clip
OSA:2A	White Clip Level
OSD:3A	DNR
OSE:31	MATRIX TYPE
OSD:A4	MATRIX(R-G)
OSD:A5	MATRIX(R-B)
OSD:A6	MATRIX(G-R)
OSD:A7	MATRIX(G-B)
OSD:A8	MATRIX(B-R)
OSD:A9	MATRIX(B-G)
OSD:80	B_Mg (SATURATION)
OSD:81	B_Mg (PHASE)
OSD:82	Mg (SATURATION)
OSD:83	Mg (PHASE)
OSD:84	Mg_R (SATURATION)
OSD:85	Mg_R (PHASE)
OSD:9A	Mg_R_R (SATURATION)
OSD:9B	Mg_R_R (PHASE)

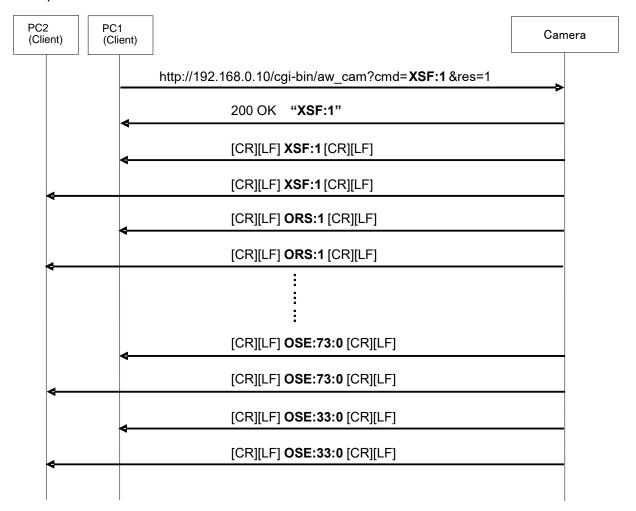
Notification	Remarks
OSD:86	R (SATURATION)
OSD:87	R (PHASE)
OSD:9C	R_R_YI (SATURATION)
OSD:9D	R_R_YI (PHASE)
OSD:88	R_YI (SATURATION)
OSD:89	R_YI (PHASE)
OSD:9E	R_YI_YI (SATURATION)
OSD:9F	R_YI_YI (PHASE)
OSD:8A	YI (SATURATION)
OSD:8B	YI (PHASE)
OSJ:1C	YI_YI_G Saturation
OSJ:1D	YI_YI_G Phase
OSD:8C	YI_G (SATURATION)
OSD:8D	YI_G (PHASE)
OSD:8E	G (SATURATION)
OSD:8F	G (PHASE)
OSD:90	G_Cy (SATURATION)
OSD:91	G_Cy (PHASE)
OSD:92	Cy (SATURATION)
OSD:93	Cy (PHASE)
OSD:94	Cy_B (Saturation)
OSD:95	Cy_B (PHASE)
OSD:96	B (SATURATION)
OSD:97	B (PHASE)
OSJ:4F	Adaptive Matrix
OSJ:4A	AWB COLOR TEMPERATURE
OSJ:4B	AWB R Gain
OSJ:4C	AWB B Gain
OSJ:4D	AWB G Axis

Given below is the sequence which is followed when scene files are selected.

[Scene file selection sequence]

The sequence below is followed if the scene file is changed to "Manual1".

When "XSF:1" is returned in the response to the scene selection command and the scene file change is completed, the settings changed by the change in the scene file are posted in sequence by update notifications.



**The backlight compensation response (OSE:73:[Data]) is not supported by the AW-HE120.

Fig.4-7 Scene file selection

Described below are sequences which differ from the ones described in the previous pages.

4.4. 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.

4.4.1. Version information notification

The version information is posted in 60-second cycles. (Version information notifications are not supported for the AK-UB300.)

The information posted is given below.

Table 4-6

Notification	Version information
qSV3V**.*****	qSV3V01.00L.002

Given below is the sequence which is followed when the version information is received.

[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.

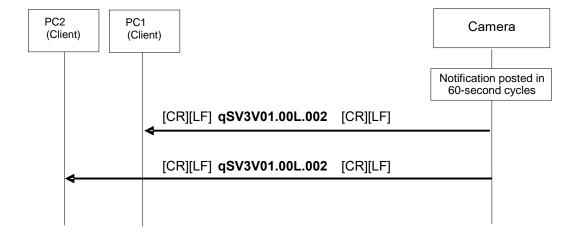


Fig.4-8 Sequence when the version information is received

4.4.2. Error information

In cases where the camera has detected error information, the error information is posted in 30-second cycles. (Error information notifications are not supported for the AK-UB300.)

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

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

Given below is the information which is posted.

Table 4-7

Notification	Error Code
rER[Error Code]	In the case of the AW-HE50/AW-HE60
	00h: Normal
	03h: Motor Driver Error
	04h: Pan Sensor Error
	05h: Tilt Sensor Error
	06h: Controller RX Over run Error
	07h: Controller RX Framing Error
	08h: Network RX Over run Error
	09h: Network RX Framing Error
	17h: Controller RX Command Buffer Overflow
	19h: Network RX Command Buffer Overflow
	21h: System Error
	22h: Spec Limit Over
	23h: FPGA Config Error
	24h: Network communication Error
	25h: Lens Initialize Error
	30h:Lvds_Adjustment_NG
	31h:Bar_Signal_Check_NG 32h:H_Sync_Check_NG
	33h:HDMI Check NG
	In the case of the AW-HE120/AW-HE130
	00h:Normal
	01h:-
	02h:-
	03h:Motor Driver Error
	04h:Pan Sensor Error
	05h:Tilt Sensor Error
	06h:Controller RX Over run Error
	07h:Controller RX Framing Error
	08h:Network RX Over run Error
	09h:Network RX Framing Error
	0Ah:-
	0Bh:-
	17h:Controller RX Command Buffer Overflow
	19h:Network RX Command Buffer Overflow
	21h:System Error
	22h:Spec Limit Over
	24h:Network communication Error
	25h:CAMERA communication Error
	26h:CAMERA RX Over run Error
	27h:CAMERA RX Framing Error
	28h:CAMERA RX Command Buffer Overflow

Notification	Error Code
	In the case of the AW-HR140
	00h:Normal
	01h:-
	02h:-
	03h:Motor Driver Error
	04h:Pan Sensor Error
	05h:Tilt Sensor Error
	06h:Controller RX Over run Error
	07h:Controller RX Framing Error
	08h:Network RX Over run Error
	09h:Network RX Framing Error
	0Ah:-
	0Bh:-
	17h:Controller RX Command Buffer Overflow
	19h:Network RX Command Buffer Overflow
	21h:System Error
	22h:Spec Limit Over
	24h:Network communication Error
	25h:CAMERA communication Error
	26h:CAMERA RX Over run Error
	27h:CAMERA RX Framing Error
	28h:CAMERA RX Command Buffer Overflow
	31h:Fan1 Error
	32h:Fan2 Error
	33h:High Temp
	36h:Low Temp
	39h:Wiper Error
	40h:Temp Sensor Error
	50h:MR Level Error
	51h:GYRO Initial Error
	52h:MR Offset Error
	53h:Origin Offset Error
	In the case of the AW-HE40/AW-UE70/AW-HE42
	00h:Normal(No Error)
	03h:Motor Driver Error
	04h:Pan Sensor Error
	05h:Tilt Sensor Error
	06h:IF/FPGA UART Over run Error
	07h:IF/FPGA UART Framing Error
	08h:IF/NET UART Over run Error
	09h:IF/NET UART Framing Error
	17h:IF/FPGA UART Buffer Overflow
	19h:IF/NET UART Buffer Overflow
	21h:System Error(IF/SERVO Error)
	22h:PT Life monitoring Error
	24h:NET Life-monitoring Error
	25h:BE Life-monitoring Error
	26h:IF/BE UART Buffer Overflow
	27h:IF/BE UART Framing Error 28h:IF/BE UART Buffer Overflow
	29h:CAM Life-monitoring Error

Notification	Error Code
	In the case of the AW-UE150
	00h Normal
	03h Motor Driver Error
	04h Pan Sensor Error
	05h Tilt Sensor Error
	06h Controller RX Over run Error
	07h Controller RX Framing Error
	08h Network RX Over run Error
	09h Network RX Framing Error
	17h Controller RX Command Buffer Overflow
	19h Network RX Command Buffer Overflow
	21h System Error
	22h Spec Limit Over
	23h FPGA Config Error
	24h NET Life-monitoring Error
	25h BE Life-monitoring Error
	26h IF/BE UART Buffer Overflow
	27h IF/BE UART Framing Error
	28h IF/BE UART Buffer Overflow
	29h CAM Life-monitoring Error
	31h Fan1 error
	32h Fan2 error
	33h High Temp
	36h Low Temp
	40h Temp Sensor Error
	41h Lens Initialize Error
	42h PT. Initialize Error
	50h MR Level Error
	52h MR Offset Error
	53h Origin Offset Error
	54h Angle MR Sensor Error
	55h PT. Gear Error
	56h Motor Disconnect Error

Given below is the sequence which is followed when error information is received.

[Error information receive sequence]

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

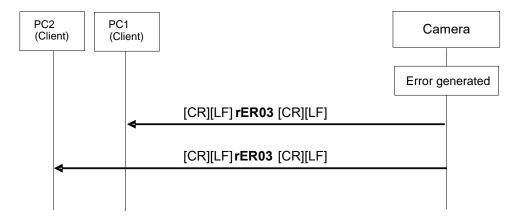


Fig.4-9 Sequence when error information is received

4.4.3. LPI information (lens information)

Notification is sent in a 300ms cycle when "On: Information is posted" has been set for the lens information notification On/Off control command in "3.1.6. Lens information notification" and a change has been made in the LPI information (lens information). (LPI information notifications are not supported for the AK-UB300.)

The information posted is given below.

Table 4-8

Notification	Lens information
IPI [ZZZ] [FFF] [III]	ZZZ ······Zoom position FFF ······Focus position III ·······Iris position

Given below is the sequence which is followed when changes in the LPI (lens) information are received.

[Sequence when LPI information (lens information) is changed]

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

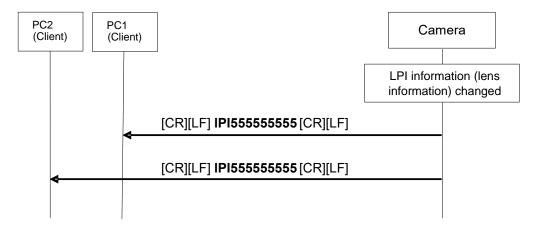


Fig.4-10 Sequence when LPI information is changed

4.4.4. Preset playback

This command sends the preset playback completion notification as an update notification when preset playback in the camera has been completed. (Preset playback is not supported for the AK-UB300.)

The table below gives the notification details.

Table 4-9

Notification	Remarks
q[numeral]	Number of the preset which was played back

Given below is the sequence which is followed when presets are played back.

[Preset playback sequence]

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

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

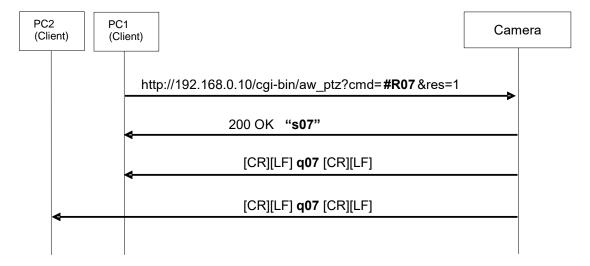


Fig.4-11 Preset playback

4.4.5. AWB/ABB execution

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

The information posted is given below.

Table 4-10 AWB result

Notification	Remarks
ows	AWB execution successful
ORI:096	R Gain (only when AWB is successfully executed) ※1 * Notified with the AW-HE120/AW-HE130/AW-HR140
OBI:096	B Gain (only when AWB is successfully executed) ※1 * Notified with the AW-HE120/AW-HE130/AW-HR140
ORG:1E	R Gain (only when AWB is successfully executed) ※1 * Notified by AW-HE50 Ver.2 or subsequent versions or by AW-HE60.
OBG:1E	B Gain (only when AWB is successfully executed) ※1 * Notified by AW-HE50 Ver.2 or subsequent versions or by AW-HE60.
OSG:39:800	R Gain (only when AWB is successfully executed) * Notified by AW-UE150
OSG:3A:800	B Gain (only when AWB is successfully executed) * Notified by AW-UE150
ER3:OWS	AWB execution failed
ER2:OWS	AWB execution failed (busy status)

%1: The R gain and B gain update notifications are supported by Ver.2 or a later version for the AW-HE50.

Table 4-11 ABB result

Notification	Remarks
OAS	ABB execution successful
ORP:096	R Pedestal (only when ABB is successfully executed) ※2
OBP:096	B Pedestal (only when ABB is successfully executed) ※2
OSJ:10:096	G Pedestal (only when ABB is successfully executed) * Notified by AW-UE150
ER3:OAS	ABB execution failed ※2
ER2:OAS	ABB execution failed (busy status) %2

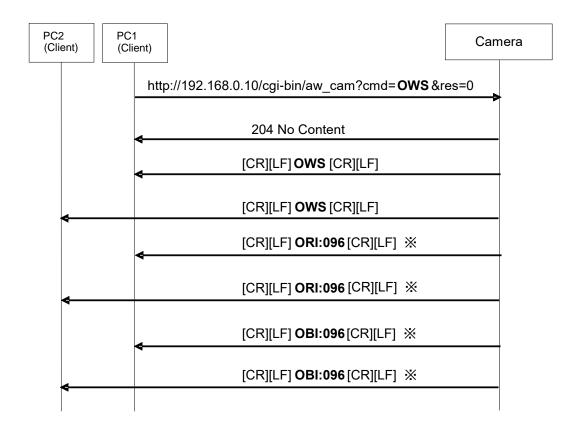
※2: With the AW-HE50 or the AW-HE60, the HTTP response is always given immediately for OAS, and no update notification is sent.

Given below is an example of the sequence which is followed when AWB is executed.

[AWB execution sequence]

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

For details on what happens if AWB execution has failed, refer to "6. Error return".



- The R gain and B gain update notifications are supported by Ver.2 or a later version for the AW-HE50.
- ※ In AW-HE50 Ver.2 or subsequent versions or in AW-HE60, if AWB A or AWB B is set as the AWB mode after switching, ORG or OBG is posted instead of ORI or OBI.

Fig.4-12 AWB execution

4.4.6. AWB Mode switching

The contents of the table below are posted in succession by update notifications when the AWB Mode setting has been switched.

Notification	Remarks		
OAW	AWB Mode		
ORI	R Gain	**Only supported by the AW-HE120/AW-HE130/AW-HR140.	
OBI	B Gain	**Only supported by the AW-HE120/AW-HE130/AW-HR140.	
ORG	R Gain	**Notified by AW-HE50 Ver.2 or subsequent versions or by AW-HE60/AW-HE40/AW-UE70/AW-HE42.	
OBG	B Gain	**Notified by AW-HE50 Ver.2 or subsequent versions or by AW-HE60/AW-HE40/AW-UE70/AW-HE42.	
OSG:39	R Gain	*Notified by AW-UE150.	
OSG:3A	B Gain	*Notified by AW-UE150.	

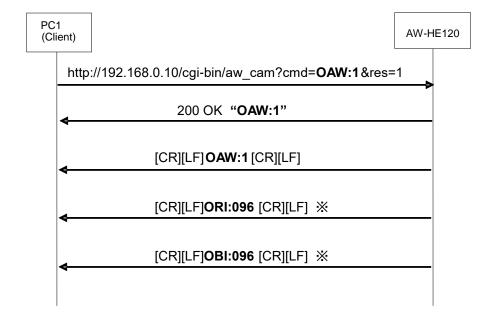
Table 4-12

The sequence below is followed when the AWB Mode is switched.

[AWB Mode switching sequence]

This sequence is followed if AWB Mode is switched to "AWB A".

As the response to the AWB Mode switching command, "OAW:1" is returned, and the R gain and B gain settings stored for the AWB Mode after switching are posted in sequence by update notifications.



- ** The R gain and B gain update notifications are supported by Ver.2 or a later version for the AW-HE50.
- ※ In AW-HE50 Ver.2 or subsequent versions or in AW-HE60/AW-HE40/ AW-UE70/AW-HE42, if AWB A or AWB B is set as the AWB mode after switching, ORG or OBG is posted instead of ORI or OBI.

Fig.4-13 AWB Mode switching

[※] The R gain and B gain are notified only when the AWB mode after switching has been set to AWB A or AWB B.

5. 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

※IP Address ······ IP address of camera at connection destination

[Receive]

200 OK "Camera information"

Where:

****Camera information** Camera information listed in Table 5-1.

[CR] and [LF] are used as the delimiters of the information.

[Sequence]

The camera information is acquired from PC1. "200 OK [Camera information]" is returned as the response from the camera.

Given below is the command sequence.

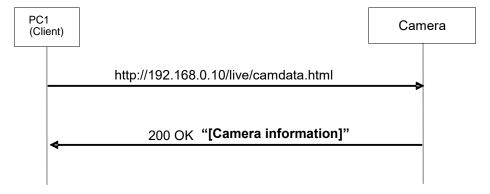


Fig.5-1 Camera information batch acquisition sequence

Table 5-1

Camera information	Command	[data] section
PowerOn/Off status	p[data]	0 : PowerOff
※ Not supported by the AK-UB300.	P[aaia]	1 : PowerOn
A Not supported by the Aix oboot.		
Model Name	OID:[data]	In the case of the AW-HE50
		AW-HE50 (fixed)
		In the case of the AW-HE60
		AW-HE60 (fixed)
		In the case of the AW-HE120
		AW-HE120 (fixed)
		In the case of the AW-HE130
		AW-HE130 (fixed)
		In the case of the AW-HE40
		AW-HE40 (fixed)
		In the case of the AW-UE70
		AW-UE70 (fixed)
		In the case of the AW-HE42
		AW-HE42 (fixed)
		In the case of the AK-UB300
		AK-UB300 (fixed)
		In the case of the AW-HR140
		AW-HR140 (fixed)
		In the case of the AW-UE150
		AW-UE150 (fixed)
CGI send interval		In the case of the AW-HE130/AW-HR140
		CGI_TIME:130 (fixed)
		In the case of the AK-UB300
		CGI_TIME:70 (fixed)
		In the case of other models
		CGI_TIME:0 (fixed) **The AW-HE50 is supported by Ver.2 or a
		later version.
Format	OSA:87: 0x[data]	In the case of the AW-HE50
Tomat	Oort.or. ox[data]	1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		7h: 1080/29.97PsF
		8h: 1080/25PsF
		Bh:480/59.94i
		Dh:576/50i
		10h: 1080/59.94p
		11h: 1080/50p
		In the case of the AW-HE60
		1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		7h: 1080/29.97PsF 8h: 1080/25PsF
		8h: 1080/25P\$F Bh: 480/59.94i
		Dh: 576/50i
		10h: 1080/59.94p
		11h: 1080/50p

Camera information	Command	[data] section
		12h: 480/59.94p
		13h: 576/50p
		·
		In the case of the AW-HE120
		1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		Bh:480/59.94i
		Dh:576/50i
		10h: 1080/59.94p
		11h: 1080/50p
		12h: 480/59.94p
		13h: 576/50p
		In the case of the AW-HE130
		1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		7h: 1080/29.97PsF
		8h: 1080/25PsF
		Ah:1080/23.98PsF
		10h: 1080/59.94p
		11h: 1080/50p
		12h: 480/59.94p
		13h: 576/50p
		14h: 1080/29.97p
		15h: 1080/25p
		16h: 1080/23.98p
		In the case of the AW-HR140
		1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		7h: 1080/29.97PsF
		8h: 1080/25PsF
		Ah: 1080/23.98PsF
		10h:1080/59.94p
		11h:1080/50p
		14h:1080/29.97p
		15h:1080/25p 16h: 1080/23.98p
		In the case of the AW-HE40/AW-UE70
		1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		7h: 1080/301 7h: 1080/29.97PsF
		8h: 1080/25PsF
		10h: 1080/59.94p
		11h: 1080/50p
		14h: 1080/29.97p
	l	ι π. 1000/20.07 μ

Camera information	Command	[data] section
		15h: 1080/25p
		17h: 2160/29.97p
		18h: 2160/25p
		In the case of the AW-HE42
		1h: 720/59.94p
		2h: 720/50p
		4h: 1080/59.94i
		5h: 1080/50i
		7h: 1080/29.97PsF
		8h: 1080/25PsF
		10h: 1080/59.94p
		11h: 1080/50p
		14h: 1080/29.97p
		15h: 1080/25p
		In the case of the AK-UB300
		00h: 720/60p
		01h: 720/59.94p
		02h: 720/50p 04h: 1080/59.94i
		04h: 1080/59.941 05h: 1080/50i
		07h: 1080/29.97psF
		08h: 1080/25psF
		0Ah: 1080/23.98psF
		10h: 1080/59.94p
		11h: 1080/50p
		16h: 1080/23.98p
		17h: 2160/29.97p
		18h: 2160/25p 19h: 2160/59.94p
		1Ah: 2160/59,54p
		1Bh: 2160/23.98p
		1Ch: 2160/29.97psF
		1Dh: 2160/25psF
		1Eh: 2160/23.98psF
		1Fh: 2160/60p
		20h: 1080/60p
		44h: 1080/59.94i CROP 45h: 1080/50i CROP
		50h: 1080/59.94p CROP
		51h: 1080/50p CROP
		In the case of the AW-UE150
		01h: 720/59.94p
		02h: 720/50p
		04h: 1080/59.94i
		05h: 1080/50i
		07h: 1080/29.97psF
		08h: 1080/25psF 0Ah: 1080/23.98psF
		10h: 1080/59.94p
		11h: 1080/50p
		14h: 1080/29.97p
		15h: 1080/25p
		16h: 1080/23.98p (over59.94i)
		17h: 2160/29.97p
		18h: 2160/25p
		19h: 2160/59.94p
		1Ah: 2160/50p
		1Bh: 2160/23.98p 21h: 2160/24p
		22h: 1080/24p

Camera information	Command	[data] section
		23h: 1080/23.98p
Camera Title		TITLE:[data (Max. 20 half-size characters)]
Output format (SDI)	OSD:B9: 0x[data]	In the case of the AW-UE70/AW-HE42
(Format SDI)		1h:720/59.94p
_ `		2h:720/50p
		4h:1080/59.94i
		5h:1080/50i
		7h:1080/29.97psF
		8h:1080/25psF
		10h:1080/59.94p
		11h:1080/50p
		14h:1080/29.97p
		15h:1080/25p
Gain	OGU: 0x[data]	In the case of the AW-HE50/AW-HE60
		80h: Auto
		08h: 0dB
		0Bh: 3dB
		0Eh: 6dB
		11h: 9dB 14h: 12dB
		17h: 15dB
		1Ah: 18dB
		In the case of the AW-HE120
		80h : Auto
		08 h: 0dB
		}
		11 h: 9dB
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		1A h: 18dB
		● Value can be set in increments of 1dB.
		In the case of the AW-HE130
		80h : Auto
		08h : 0dB
		≀
		1Ah : 18dB
		≀
		2Ch : 36dB
		● Value can be set in increments of 1dB.
		In the case of the AW-HR140/AW-UE150
		80h : Auto
		08h : 0dB
		~
		1Ah : 18dB
		~ 00k - 20 lD
		2Ch : 36dB
		~ 32h : 42dB
		32h : 42dB ■ Value can be set in increments of 1dB.
		value can be set in increments of Tub.
		In the case of the
		AW-HE40/AW-UE70/AW-HE42
		80h : Auto
		08h : 0dB
	1	\

Camera information	Command	[data] section
		1Ah : 18dB
		Value can be set in increments of 3dB.
Pedestal	OTD: 0x[data]	In the case of the AW-HE50/AW-HE60/
1 Gaestai	O I D. Ox[data]	AW-HE40/AW-UE70/AW-HE42
		3Ch: +10 1Bh: -1 39h: +9 18h: -2
		39h: +9 18h: -2 36h: +8 15h: -3
		33h: +7 12h: –4
		30h: +6 0Fh: -5
		2Dh: +5 0Ch: -6 2Ah: +4 09h: -7
		27h: +3 06h: –8
		24h: +2 03h: -9
		21h: +1 00h: –10 1Eh: 0
AWB Mode	OAW:[data]	In the case of the AW-HE50/AW-HE60
		0: ATW 2: AWB A
		3: AWB B
		In the case of the AW-HE120
		0: ATW 2: AWB A
		3: AWB B
		4: 3200K
		5: 5600K
		In the case of the
		AW-HE130/AW-HE40/AW-UE70/AW-HE42/
		AW-HR140/AW-UE150
		0: ATW 2: AWB A
		3: AWB B
		4: 3200K
		5: 5600K 9: VAR
Shutter Mode	OSH: 0x[data]	In the case of the AW-HE50/AW-HE60/
		AW-HE120/AW-HE40/ AW-UE70/AW-HE42 Oh: Off
		3h: Step -1/100(59.94Hz)
		1/120(50Hz)
		5h: Step - 1/250 6h: Step - 1/500
		7h: Step - 1/1000
		8h: Step - 1/2000
		9h: Step - 1/4000 Ah: Step - 1/10000
		Bh: SynchroScan
		Ch: ELC ※AW-HE120 only

Camera information	Command	[data] section
		In the case of the following formats of
		AW-HE130/AW-HR140 (1080/59.94i / 1080/59.94P / 720/59.94P /
		480/59.94P)
		0h OFF
		3h 1/100
		4h 1/120 5h 1/250
		6h 1/500
		7h 1/1000
		8h 1/2000
		9h 1/4000 Ah 1/10000
		Bh Synchro-Scan
		Ch ELC
		In the case of the following formats of
		AW-HE130/AW-HR140
		(1080/29.97p) Oh OFF
		2h 1/60
		4h 1/120
		5h 1/250
		6h 1/500
		7h 1/1000 8h 1/2000
		9h 1/4000
		Ah 1/10000
		Bh Synchro-Scan
		Ch ELC
		Fh 1/30 In the case of the following formats of
		AW-HE130/AW-HR140
		(1080/23.98p)
		0h OFF
		2h 1/60 4h 1/120
		5h 1/250
		6h 1/500
		7h 1/1000
		8h 1/2000 9h 1/4000
		Ah 1/10000
		Bh Synchro-Scan
		Ch ELC
		Dh 1/24
		In the case of the following formats of AW-HE130/AW-HR140
		(1080/50i / 1080/50P / 720/50P / 480/50P)
		0h OFF
		2h 1/60
		3h 1/120 5h 1/250
		6h 1/500
		7h 1/1000
		8h 1/2000

Camera information	Command	[data] section
		9h 1/4000
		Ah 1/10000
		Bh Synchro-Scan
		Ch ELC
		In the case of the following formats of
		AW-HE130/AW-HR140
		(1080/25p)
		0h OFF
		2h 1/60
		3h 1/120
		5h 1/250
		6h 1/500
		7h 1/1000
		8h 1/2000
		9h 1/4000
		Ah 1/10000
		Bh Synchro-Scan
		Ch ELC
		Eh 1/25
Detail	ODT:[data]	In the case of the AW-HE50/AW-HE60/
		AW-HE120/AW-HE40/ AW-UE70/AW-HE42
		0: Off
		1: Low
		2: High
		In the case of the
		AW-HE130/AK-UB300/AW-HR140/AW-UE1
		50
		0: Off 1: On
		2: On
Scene	OSF:[data]	In the case of the AW-HE50/AW-HE60/
Coons	oor .[uata]	AW-HE40/AW-UE70/AW-HE42
		0: Manual1
		1: Manual2
		2: Manual3
		3: FullAuto
		In the case of the
		AW-HE120/AW-HE130/AW-HR140/AW-UE
		150
		0: Scene1
		1: Scene2
		2: Scene3
		3: Scene4
		In the case of the AK-UB300
		0:Current
		1:Scene1 2:Scene2
		3:Scene3
		4:Scene4
		5:Scene5
		6:Scene6
		7:Scene7
Camara/CalarDar	OPD:[d-t-1	8:Scene8
Camera/ColorBar	OBR:[data]	0: Camera 1: ColorBar
Speed With Zoom Pos.	sWZ[data]	0: Off
Opoed Willi Zoolli Fos.	SVVZ[uata]	U. UII

Camera information	Command	[data] section
Not supported by the AK-UB300.		1: On
Preset Mode	OSE:71:[data]	0: Mode A
Not supported by the AK-UB300.		1: Mode B
,		2: Mode C
Install Position	iNS[data]	0: Desktop
※ Not supported by the AK-UB300.		1: Hanging
OSD On/Off	OUS:[data]	0: Off
- M -	1451 (1	1: On
Focus Mode	d1[data]	0: Manual 1: Auto
Not supported by the AK-UB300. Initial Manual	40[4-4-1	
Iris Mode	d3[data]	0: Manual 1: Auto
Not supported by the AK-UB300. Latest Call Preset No.	o[doto]	1~100
	s[data]	1~100
Not supported by the AK-UB300. Total Detail Level	OSA:30:[data]	In the case of the AW-HE60
Total Detail Level	OSA.30.[data]	81h : 1
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		91h : 17
		In the case of the AW-HE50/AW-HE120/
		AW-HE40/AW-UE70/AW-HE42
		0 (fixed)
		In the case of the AVALUE 400/AVALUE 440
		In the case of the AW-HE130/AW-HR140 61h: 0
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		80h : 31
		₹
		9Fh : 62
		In the case of the AK-UB300/AW-UE150
		61h : -31
		₹
		80h : 0
ND Filter	d2[data]	0 (fixed)
Not supported by the AK-UB300.	aziaataj	o (iiiica)
Option SW	d6[data]	0: Off
Not supported by the AK-UB300.	aojaataj	1: On
※ In the case of AW-HE60 (V3.00 or		
later) and		
AW-HE130/AW-HE40/AW-UE70/AW-		
HE42, used as Day/Night switching.		
Lamp	d4[data]	0 (fixed)
※ Not supported by the AK-UB300.		
Iris Follow	OSD:4F:[data]	00h: Close
※ Not supported by the AK-UB300.		EFh: Open
Error Notice	OER:[data]	FFh: Open In the case of the
**Only supported by the	OLI (.[uata]	AW-HE120/AK-UB300/AW-HR140
* * * * * * * * * * * * * * * * * * * *		0: Normal
AW-HE120/AK-UB300/AW-HR140/AW-		1: Fan Error
UE150		In the case of the AW-UE150
		0: Normal

Camera information	Command	[data] section
		1: Fan Error
		2: Other Error
		Notify error for each bit
P/T Mode of Preset	rt[data]	1 (fixed)
※ Not supported by the AK-UB300.		
Zoom Position	axz[data]	555h: Wide
※ Not supported by the AK-UB300.		
		FFFh: Tele
Error Status Info.	rER[data]	00h: No Error
※ Not supported by the AK-UB300.		01h: Error01
		: FCh: F====0C
Focus Position	- x 4	56h: Error86
	axf[data]	555h: Near
Not supported by the AK-UB300.		FFFh: Far
Preset Entry No.001~040	pE00[data]	0000000000~FFFFFFF(40bit)
Not supported by the AK-UB300.	proofdataj	bit01: Preset-No.001
1 Not supported by the Air Oboos.		:
		bit40: Preset-No.040
		0: No Entry
		1: Entry
Preset Entry No.041~080	pE01[data]	0000000000~FFFFFFFF(40bit)
Not supported by the AK-UB300.		bit01: Preset-No.041
		:
		bit40: Preset-No.080
		0: No Entry
Preset Entry No.081~100	pC02[data]	1: Entry 0000000000~FFFFFFFF(40bit)
Not supported by the AK-UB300.	pE02[data]	bit01: Preset-No.081
% Not supported by the AK-0B300.		:
		bit20: Preset-No.100
		bit21: 0 (fixed)
		bit40: 0 (fixed)
		,
		0: No Entry
		1: Entry
Preset Speed	uPVS[data]	000: Max Speed (Preset Speed:30)
※ Not supported by the AK-UB300.		250: Slow (Preset Speed:1)
		:
		999: Fast(Preset Speed:30)
		Preset speed unit : Time
		(XOnly supported by the AW-UE150)
		001h: 1
		063h: 99
Tilt-Up Limitation Set	IC1[data]	0: Release
Not supported by the AK-UB300.	Toridataj	1: Set
Tilt-Down Limitation Set	IC2[data]	0: Release
Not supported by the AK-UB300.	.02[4444]	1: Set
Pan-Left Limitation Set	IC3[data]	0: Release
Not supported by the AK-UB300.	' '	1: Set

Camera information	Command	[data] section
Pan-Right Limitation Set	IC4[data]	0: Release
Not supported by the AK-UB300.		1: Set
R Gain	ORG:[data]	In the case of the AW-HE50 (Ver.2 or a later version)/AW-HE60/AW-HE40/AW-UE70/A W-HE42
		00h: –30 : 1Eh: 0 :
		3Ch: +30
	ORI:[data]	In the case of the AW-HE120/AW-HE130/AW-HR140
		000h: –150 : 096h: 0
		: 12Ch: +150
B Gain	OBG:[data]	In the case of the AW-HE50 (Ver.2 or a later version)/AW-HE60/AW-HE40/AW-UE70/A W-HE42
		00h: –30 : 1Eh: 0
	OBILLIA	: 3Ch: +30
	OBI:[data]	In the case of the AW-HE120/AW-HE130/AW-HR140 000h: –150
		: 096h: 0
		: 12Ch: +150
Pedestal **Only AW-HE120/AW-HE130	OTP: 0x[data]	000h: –150 :
		096h: 0 :
		12Ch: +150
R Pedestal	ORP: 0x[data]	In the case of the AW-HE120
**Only AW-HE120/AW-HE130		000h: –150 :
		096h: 0 :
		12Ch: +150 In the case of the
		AW-HE130/AW-HR140/AW-UE150 032h: –100
		: 096h: 0 :
		: 0FAh: +100
B Pedestal ※Only AW-HE120/AW-HE130	OBP: 0x[data]	In the case of the AW-HE120 000h: -150

Camera information	Command	[data] section
		096h: 0
		:
		12Ch: +150
		In the case of the AW-HE130/AW-HR140/AW-UE150
		032h: –100
		:
		096h: 0
		<u> </u>
0-1	00D-D4- 0[- -4-1	0FAh: +100
Color Temperature	OSD:B1: 0x[data]	In the case of the AW-HE130/AW-HR140 000h: 2000K
		00011. 2000K :
		078h: 15000K
		In the case of the
		AW-HE40/AW-UE70/AW-HE42
		000h: 2400K
		: 04Ph: 0000K
Preset Speed Table	pST[data]	04Bh: 9900K 0: Slow
*Only AW-HE130/AW-HE40/	portuataj	2: Fast
AW-UE70/AW-HE42/AW-UE150		2.1 d3t
Freezing images during preset	pRF[data]	0: Off
playback		1: On
(Freeze During Preset)		
**Only AW-HE130/AW-HE40/		
AW-UE70/AW-HE42/AW-UE150 Image Stabilization (IS)	OIS:[data]	0: Off
*Only AW-HE130 (Optical)/	Olo.[uala]	1: On
AW-HE40/		
AW-UE70/AW-HE42/AW-UE150		
Digital Extender	ODE:[data]	0: Off
**Only AW-HE130/AW-HE40/		1: On
AW-UE70/AW-HE42/AK-UB300 XNotyfy for previous version		
compatibility in AW-UE150		
Digital Extender	OSJ:4E:[data]	0: Off
※ Only AW-UE150		1: x1.4
D. 11.17	005 70 50 4 1	2: x2.0
Digital Zoom XOnly AW-HE40/	OSE:70:[Data]	0: Off 1: On
AW-UE70/AW-HE42/AW-UE150		1. 011
iZoom	OSD:B3:[Data]	0: Off
※Only AW-HE40/		1: On
AW-UE70/AW-HE42/AW-UE150		
RED Tally	TLR:[data]	0: Off
**Only AK-UB300/AW-UE150	dA[data]	1: On 0: Off
RED Tally	dA[data]	1: On
GREEN Tally	TLG:[data]	0: Off
**Only AK-UB300/AW-UE150		1: On
Lens Information	OSI:18:0x[data1]:0x[[data1]
**Only AK-UB300	data2]:0x[data3]	555h: Wide
		\

Camera information	Command	[data] section
		FFFh: Tele
		[data2]
		555h: Near
		₹
		FFFh: Far
		[data3]
		555h: Close
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1: 0 4 /04	0001111	FFFh: Open
Iris Auto/Manual	ORS:[data]	0: Manual
XOnly AK-UB300 Iris Volume	ORV:0x[data]	1: Auto 000h: Close
**Only AK-UB300	ORV.UX[uata]	00011. Close }
2. Only Ait-00000		3FFh: Open
Iris Offset	OSD:48:0x[data]	In the case of the AK-UB300
In School	OOD.+O.OX[data]	00h: 0
		}
		64h: 100
PICTURE LEVEL		In the case of the AW-UE150
		00h: -50
		~
		64h: +50
Iris F Volume	OIF:0x[data]	0Eh: F1.4
		₹
		A0h: F16
		FFh: CLOSE
ND Filter	OFT:[data]	In the case of the AK-UB300
		0: Clear
		1: 1/4
		2: 1/16
		3: 1/64
		In the case of the AW-UE150
		0: Through 1: 1/4
		2: 1/16
		3: 1/64
Shutter SW	OSG:59:[data]	0: Off
*Only AK-UB300	o o o o o o o o o o o o o o o o o o o	1: On
Shutter Mode	OSG:5A:[data]	0: Shutter
		1: Synchro
Shutter Speed	OSG:5D:0x[data]	00h: 1/48
*Only AK-UB300	OOO.OD.Ox[data]	01h: 1/50
2KOMY / K OBOO		02h: 1/60
		03h: 1/96
		04h: 1/100
		05h: 1/120
		06h: 1/125
		07h: 1/250
		08h: 1/500
		09h: 1/1000
		0Ah: 1/1500
		0Bh: 1/2000
		0Ch: 180.0deg
		0Dh: 172.8deg
		0Eh: 144.0deg
		0Fh: 120.0deg

Camera information	Command	[data] section
		10h: 90.0deg
		11h: 45.0deg
Gain Select	OGS:0x[data]	01h: LOW
		04h: MID
		08h: HIGH
		06h: S.GAIN1
		0Ch: S.GAIN2
D.Cin	000.00.0.1.1.1.1	0Eh: S.GAIN3
R Gain	OSG:39:0x[data]	In the case of the AK-UB300
		418h: -1000
		800h: 0
		₹
		BE8h: 1000
		In the case of the AW-UE150
		738h: -200
		~
		800h: 0
		~
		8C8h: 200
B Gain	OSG:3A:0x[data]	In the case of the AK-UB300
		418h: -1000
		₹
		800h: 0
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		BE8h: 1000
		In the case of the AW-UE150
		738h: -200 ~
		800h: 0
		~
		8C8h: 200
Pedestal	OSG:4A:0x[data]	1Dh: -99
*Only AK-UB300	ood: ii iiox[aaia]	₹
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		80h: 0
		1
		E3h: 99
R Pedestal	OSG:4C:0x[data]	4E0h: -800
		₹
		800h: 0
		₹
		B20h: 800
B Pedestal	OSG:4E:0x[data]	4E0h: -800
) 200h: 0
		800h: 0
		B20h: 800
CROP OUT SEL	OSI:16:[data]	1: YL
**Only AK-UB300/AW-UE150	COI. 10.[uata]	2: G
7. 3, 7. 1. 3. 2. 3. 3. 7. 1. 3.		3: MG
CROP ADJ SEL	OSI:17:[data]	1: YL
*Only AK-UB300/AW-UE150		2: G
		3: MG
Auto Iris Speed	OSJ:01:0x[data]	0h: Slow
		1h: Normal
		2h: Fast

Camera information	Command	[data] section
Auto Iris Window	OSJ:02:0x[data]	0h: Normal1
		1h: Normal2
		2h: Center
Shutter Mode	OSJ:03:0x[data]	0h: Off
※Only AW-UE150		1h: Step
		2h: Synchro
Step VAL	OSJ:06:0x[data]	3h: ELC 0001h: 1/1
XOnly AW-UE150	USJ.00.0x[uata]	000111. 1/1 ~
2 A Chily AVV GE 100		2710 h: 1/10000
Synchro VAL	OSJ:09:0x[data]	00000h: 0.0 [Hz]
×Only AW-UE150		~
-		186A0h: 10000.0 [Hz]
ELC Limit (AutoShutterLimit)	OSD:BF:[data]	2: 1/100
		3: 1/120
		4: 1/250
Super Gain	OSI:28:[data]	0: OFF
	OSD:69:[data]	1: ON 01: 6dB
*Only AW-UE150	OSD.09.[data]	01: 0dB 02: 12dB
XOMY AV OL 100		03: 18dB
Fram Mix	OSA:65:0x[data]	00h: OFF
		06h: +6dB
•		0Ch: +12dB
		12h: +18dB
		18h: +24dB
COLOR TEMPERATURE	OSI:20:0x[data]:0	00000h: 0 K
**Only AK-UB300/AW-UE150		~ 055554, 4040575 K
AWB Gain Offset	OSJ:0C:0x[data]	0FFFFh: 1048575 K 0: Off
**Only AW-UE150	OSJ.UC.UX[uata]	1: On
ATW Speed	OSI:25:[data]	0: Normal
*Only AW-UE150	oonzo.[aata]	1: Slow
		2: Fast
ATW Target R	OSJ:0D:0x[data]	76h: -10
※Only AW-UE150		~
		80h: 0
		~
ATW Target B	OSJ:0E:0x[data]	8Ah: 10 76h: -10
XOnly AW-UE150	OSJ.UE.UX[data]	76n: -10 ~
Z. Siny / WV SE 100		80h: 0
		~
		8Ah: 10
Chroma Level	OSD:B0:0x[data]	00h: Off
※Only AK-UB300/AW-UE150		1Dh: -99%
		~
		80h: 0%
		~ E3h: 99%
Chroma Phase	OSJ:0B:0x[data]	61h: -31
*Only AW-UE150	J 550.5B.0x[data]	~
		80h: 0
		~
		9Fh: 31
Master Pedestal	OSJ:0F:0x[data]	738h: -200

※Only AW-UE150	~ 800h: 0 ~
ı	8C8h: 200
G Pedestal OSJ:10:0x	[data] 032h: -100
※Only AW-UE150	~ 096h: 0
	0901. 0 ~
	0FAh: 100
Pedestal Offset OSJ:11:[da	
	1: On [data] 00h: 0
**Nonly AW-UE150	
•	3Ch: 60
V Detail Level OSD:A1:0	
**Only AW-UE150	~ 80h: 0
	~
	87h: 7
Detail Frequency OSD:A2:0	
※Only AW-UE150	~ 80h: 0
	~
	87h: 7
Level Depend. OSJ:13:0x	-
**Only AW-UE150	80h: 0
	~
	87h: 7
Knee Ape. Level OSG:3F:0	⟨[data] 00h: 0 ~
**Only AK-UB300/AW-UE150	05h: 5
Detail Gain(+) OSA:38:00	
	~
	80h: 0 ~
	9Fh: 31
Detail Gain(-) OSA:39:09	
Minimum Min	~
	80h: 0 ~
	9Fh: 31
Skin Detail OSA:40:[d	
**Only AK-UB300/AW-UE150	1: On
Skin Detail Effect OSD:A3:0: **Only AW-UE150	⟨[data] 80h: 0 ~
A.G, 7	9Fh: 31
DownCon Detail OSJ:14:0x	
XOnly AW-UE150	1: On
DC. Master Detail OSJ:15:0x ONLY AW-UE150	[data] 61h: -31
7.01.17 OE 100	80h: 0
	~
DC Datail Caring	9Fh: 31
DC. Detail Coring **Only AW-UE150 OSJ:16:0x	[data] 00h: 0 ~

Camera information	Command	[data] section
Camera morniation	Command	3Ch: 60
DC. V Detail Level	OSJ:17:0x[data]	79h: -7
**Only AW-UE150	o oo. moxiquataj	~
		80h: 0
		~
		87h: 7
DC. Detail Frequency	OSJ:18:0x[data]	7Eh: -2
		~
		80h: 0
		~
DO Laval Danard	001:40:0:-[-1-4-1	82h: 2
DC. Level Depend ※Only AW-UE150	OSJ:19:0x[data]	79h: -7 ~
MONIY AVV-UE 150		80h: 0
		~
		87h: 7
DC. Knee Ape Level	OSJ:1A:0x[data]	00h: 0
*Only AW-UE150	o oo. ii wox[aata]	~
,		05h: 5
Gamma Mode	OSE:72:[data]	0: HD
		2: FILMLIKE1
		3: FILMLIKE2
		4: FILMLIKE3
		5: FILM REC
		6: VIDEO REC
	004 04 0 51 4 1	7: HLG
Gamma	OSA:6A:0x[data]	67h: 0.30 ~
※Only AW-UE150		6Ch: 0.35
		~
		80h: 0.55
		~
		94h: 0.75
F-REC Dynamic LVL	OSA:10:[data]	0: 200%
XOnly AK-UB300/AW-UE150 XONLY XO		1: 300%
		2: 400%
		3: 500%
		4: 600%
F-REC Black STR LVL	OSA:0F:0x[data]	00h : 0
		~ 15h . 20
V-REC Knee Slope	OSA:25:0x[data]	1Eh : 30 7Ch : 150%
*Only AK-UB300/AW-UE150	USA.25.0x[data]	7CH . 150%
※Offity AR-OBS00/AW-OL 130		80h : 350%
		~
		83h : 500%
		(1step=50%)
V-REC Knee Point	OSA:21:0x[data]	62h : 30%
**Only AK-UB300/AW-UE150		~
		80h : 60%
		~
		9Eh: 90%
		~ Λfb : 1079/
MASTER BLACK GAMMA	06V-02-07-07-19-19-1	Afh: 107% In the case of the AK-UB300
**Only AK-UB300/AW-UE150	OSA:07:0x[data]	50h:-48
WOLLAN - OF 190		JUII. "4 0

Camera information	Command	[data] section
		~
		80h:0 ∼
		B0h:+48
		In the case of the AW-UE150
		78h:-8 ∼
		80h:0
		~
D.O	001400-64-4-1	88h:+8
B.Gamma Range ※Only AW-UE150	OSJ:1B:0x[data]	1 ~
, xomy not object		3
DRS	OSE:33:[data]	0: OFF
※Only AW-UE150		1: LOW 2: MID
		3: HIGH
Knee Mode	OSA:2D:[data]	0: OFF
**Only AK-UB300/AW-UE150		1: MANUAL
AUTO KNEE RESPONSE	OSG:97:[data]	2: AUTO 1
**Only AK-UB300/AW-UE150	ooo.or.[aata]	~
		8
MASTER KNEE POINT **Only AK-UB300/AW-UE150	OSA:20:0x[data]	22h: 70.00%
%Only AK-OBSOO/AW-OE 130		4Ah: 80.00%
		~
		80h: 93.50%
		B6h: 107.00%
		(1step=0.25%)
		(Valid for 2 step units only: 0.5%
MASTER KNEE SLOPE	OSA:24:0x[data]	increments) 00h: 0
**Only AK-UB300/AW-UE150	O O / 1.2 1.0 X[data]	~
		63h: 99
HLG KNEE SW **Only AK-UB300/AW-UE150	OSI:40:[data]	0: Off 1: On
HLG KNEE POINT	OSI:41:0x[data]	In the case of the AK-UB300
**Only AK-UB300/AW-UE150		30h : 60%
		~ 20h 200/:
		80h 80%:
		D0h : 100%
		(1step=0.25%)
		(Valid for 4 step units only: 1% increments) In the case of the AW-UE150
		1Ch: 55%
		~
		80h 80%:
		D0h: 100%
		(1step=0.25%)
HI C KNEE SLODE	OCI.42.0v[4-t-1	(Valid for 4 step units only: 1% increments)
HLG KNEE SLOPE **Only AK-UB300/AW-UE150	OSI:42:0x[data]	In the case of the AK-UB300 00h: 0
	1	

Camera information	Command	[data] section
		~
		C7h: 199
		In the case of the AW-UE150 00h: 0
		~
		64h: 100
White Clip	OSA:2E:[data]	0: Off
※Only AW-UE150		1: On
White Clip Level	OSA:2A:0x[data]	00h :90%
		~
DAID	000 04 0 51 4 1	13h :109%
DNR	OSD:3A:0x[data]	00: OFF
※Only AW-UE150		01: LOW HIG0H
MATRIX TYPE	OSE:31:[data]	0: NORMAL
※Only AW-UE150	OOL:01:[data]	1: EBU
,		2: NTSC
		3: USER
MATRIX(R-G)	OSD:A4:0x[data]	41h: -63
※Only AW-UE150		~
		80h: 0
		~ BFh: 63
MATRIX(R-B)	OSD:A5:0x[data]	41h: -63
※Only AW-UE150	OOD.AJ.Ox[data]	~
7. Ciny / W C 2 100		80h: 0
		~
		BFh: 63
MATRIX(G-R)	OSD:A6:0x[data]	41h: -63
※Only AW-UE150		~
		80h: 0 ~
		BFh: 63
MATRIX(G-B)	OSD:A7:0x[data]	41h: -63
※Only AW-UE150	oob ii iox[aaia]	~
,		80h: 0
		~
		BFh: 63
MATRIX(B-R)	OSD:A8:0x[data]	41h: -63 ~
※Only AW-UE150		80h: 0
		8011. 0 ~
		BFh: 63
MATRIX(B-G)	OSD:A9:0x[data]	41h: -63
		~
		80h: 0
		~
D Ma (CATUDATION)	OCD,00,0,1-1-1-1	BFh: 63
B_Mg (SATURATION) **Only AK-UB300/AW-UE150	OSD:80:0x[data]	41h: -63 ~
AOTHY AR-OBSOU/AVV-UE 150		80h: 0
		~
		BFh: 63
B_Mg (PHASE)	OSD:81:0x[data]	41h: -63
		~
		80h: 0

Camera information	Command	[data] section
		~ DEL: 62
Mg (SATURATION)	OSD:82:0x[data]	BFh: 63 41h: -63
*Only AK-UB300/AW-UE150		~
		80h: 0 ~
		BFh: 63
Mg (PHASE) **Only AK-UB300/AW-UE150	OSD:83:0x[data]	41h: -63 ~
2. Strily Filt GB000/Filt GE100		80h: 0
		~ BFh: 63
Mg_R (SATURATION)	OSD:84:0x[data]	41h: -63
*Only AK-UB300/AW-UE150		~
		80h: 0 ~
		BFh: 63
Mg_R (PHASE) ※Only AK-UB300/AW-UE150	OSD:85:0x[data]	41h: -63 ~
2. Only Air ObsoliAir GE150		80h: 0
		~ BFh: 63
Mg R R (SATURATION)	OSD:9A:0x[data]	41h: -63
NONLY AW-UE150 NONLY AW-UE150		~
		80h: 0 ~
		BFh: 63
Mg_R_R (PHASE) ※Only AW-UE150	OSD:9B:0x[data]	41h: -63 ~
2011y AVV 0E 100		80h: 0
		~ BFh: 63
R (SATURATION)	OSD:86:0x[data]	41h: -63
*Only AK-UB300/AW-UE150		~
		80h: 0 ~
		BFh: 63
R (PHASE) **Only AK-UB300/AW-UE150	OSD:87:0x[data]	41h: -63 ~
,xc, , , , , , , , , , , , , , , , , ,		80h: 0
		~ BFh: 63
R_R_YI (SATURATION)	OSD:9C:0x[data]	41h: -63
%Only AW-UE150		~ 80h: 0
		~
D. D. VI (DITAGE)	000 00 0 11 13	BFh: 63
R_R_YI (PHASE) ※Only AW-UE150	OSD:9D:0x[data]	41h: -63 ~
		80h: 0
		~ BFh: 63
R_YI (SATURATION)	OSD:88:0x[data]	41h: -63
**Only AK-UB300/AW-UE150		~ 80h: 0
		~

Camera information	Command	[data] section
		BFh: 63
R_YI (PHASE)	OSD:89:0x[data]	41h: -63
XOnly AK-UB300/AW-UE150 XONLY X		~
		80h: 0
		~ BFh: 63
R_YI_YI (SATURATION)	OSD:9E:0x[data]	41h: -63
*Only AW-UE150		~
		80h: 0
		~
R_YI_YI (PHASE)	OSD:9F:0x[data]	BFh: 63 41h: -63
*Only AW-UE150	OSD.9F.0x[uala]	411103 ∼
// vi.i. v = 1.00		80h: 0
		~
)// (0.4T) ID 4T(0.1)	000 04 0 51 4 3	BFh: 63
YI (SATURATION) ※Only AK-UB300/AW-UE150	OSD:8A:0x[data]	41h: -63 ~
%Only AR-OBSOU/AW-OL130		80h: 0
		~
		BFh: 63
YI (PHASE)	OSD:8B:0x[data]	41h: -63
**Only AK-UB300/AW-UE150		~ 80h: 0
		~
		BFh: 63
YI_YI_G Saturation	OSJ:1C:0x[data]	41h: -63
**Only AW-UE150		~
		80h: 0 ~
		BFh: 63
YI_YI_G Phase	OSJ:1D:0x[data]	41h: -63
		~
		80h: 0 ~
		BFh: 63
YI_G (SATURATION)	OSD:8C:0x[data]	41h: -63
[™] Only AK-UB300/AW-UE150		~
		80h: 0
		~ BFh: 63
YI_G (PHASE)	OSD:8D:0x[data]	41h: -63
*Only AK-UB300/AW-UE150		~
_		80h: 0
		~ DEL. 02
G (SATURATION)	OSD:8E:0x[data]	BFh: 63 41h: -63
*Only AK-UB300/AW-UE150	OOD.OL.Ox[uala]	411103 ~
,		80h: 0
		~
O (DUACE)	000 05 0 71 / 7	BFh: 63
G (PHASE) ※Only AK-UB300/AW-UE150	OSD:8F:0x[data]	41h: -63 ~
ACITY AIX-OBSOU/AVV-OE 150		80h: 0
		~
		BFh: 63

Camera information	Command	[data] section
G_Cy (SATURATION)	OSD:90:0x[data]	41h: -63
XOnly AK-UB300/AW-UE150 XONLY AK-UB300/AW-UE150		~
		80h: 0 ~
		BFh: 63
G_Cy (PHASE)	OSD:91:0x[data]	41h: -63
**Only AK-UB300/AW-UE150		~
		80h: 0 ~
		BFh: 63
Cy (SATURATION)	OSD:92:0x[data]	41h: -63
**Only AK-UB300/AW-UE150		~ 80h: 0
		~
		BFh: 63
Cy (PHASE)	OSD:93:0x[data]	41h: -63
**Only AK-UB300/AW-UE150		~ 80h: 0
		~
		BFh: 63
Cy_B (Saturation) XOnly AK-UB300/AW-UE150	OSD:94:0x[data]	41h: -63 ~
%Only AR-OBSOU/AVV-OE 150		80h: 0
		~
O. D. (DUAGE)	000 05 0 51 4 1	BFh: 63
Cy_B (PHASE) ※Only AK-UB300/AW-UE150	OSD:95:0x[data]	41h: -63 ~
2000/W 02100		80h: 0
		~
B (SATURATION)	OSD:96:0x[data]	BFh: 63 41h: -63
*Only AK-UB300/AW-UE150	OOD.90.0x[data]	~
		80h: 0
		~ BFh: 63
B (PHASE)	OSD:97:0x[data]	41h: -63
**Only AK-UB300/AW-UE150		~
		80h: 0
		~ BFh: 63
FOCUS MODE	OAF:[data]	0: Manual FOCUS
**Only AW-UE150		1: AUTO FOCUS
MAXIMUM DIGITAL ZOOM XOnly AW-UE150	OSE:7A:[data]	02: x2 ~
₩Only AW-0E 190		10: x10
Iris Control	axi[data]	555h: Iris Close
※Only AW-UE150		~
Frequency	OSE:77:[data]	FFFh: Iris Open 0: 59.94Hz
※Only AW-UE150	Joe. 77. [data]	1: 50.00Hz
-		2: 24Hz
FAN	fANIIdata ¹	3: 23.98Hz
FAIN ※Only AW-UE150	fAN[data]	0: Auto 1: High
		2: Mid
		3: Low

Camera information	Command	[data] section
FAN2	fA2[data]	0: Auto
*Only AW-UE150	" iz[data]	1: High
// viii, / iii v = 1.00		2: Mid
		3: Low
UHD Crop	OSJ:2E:0x[data]	0: Off
		1: Crop(1080)
		2: Crop(720)
Crop Marker	OSI:1A:[data]	0: OFF
		1: YL
		2: G
		3: MG 4: YL+G
		5: YL+MG
		6: G+MG
		7: YL+G+MG
Crop H POS. (YL)	OSJ:2F:0x[data]	000h: 0
*Only AW-UE150		~
		780h: 1920
		~
		A00h: 2560
Crop V POS. (YL)	OSJ:30:0x[data]	000h: 0
※Only AW-UE150		~
		438h: 1080
		~
0	001:04:0:14-4-1	5A0h: 1440
Crop H POS. (G) ※Only AW-UE150	OSJ:31:0x[data]	000h: 0
%Only AVV-UE 150		780h: 1920
		~
		A00h: 2560
Crop V POS. (G)	OSJ:32:0x[data]	000h: 0
XOnly AW-UÈ150		~
		438h: 1080
		~
		5A0h: 1440
Crop H POS. (MG)	OSJ:33:0x[data]	000h: 0
		~
		780h: 1920 ~
		A00h: 2560
Crop V POS. (MG)	OSJ:34:0x[data]	000h: 0
*Only AW-UE150	O CO.O I.Ox[data]	~
// viii, / iii v = 1.00		438h: 1080
		~
		5A0h: 1440
PT. Speed Mode	OSJ:2D: [data]	0: Normal
※Only AW-UE150		1: Fast
Focus ADJ With PTZ	OAZ: [data]	0: Off
*Only AW-UE150	001057117	1: On
Preset Speed Unit	OSJ:29:[data]	0: Speed Table
**Only AW-UE150	005.70.54-4-1	1: Time
Preset D-Extender	OSE:7C:[data]	0: Off
	OSJ:2A:0x[data]	1: On 0: Off
Wonly AW-UE150	OSJ.ZA.UX[uata]	0. Oil 1: On
Preset Thumbnail Update	OSJ:2B:0x[data]	0: Off
i 1000t mambhall opuate	J CCU.ZD.UA[data]	U. UII

Camera information	Command	[data] section
**Only AW-UE150	Oommand	1: On
Preset Name	OSJ:2C:0x[data]	0: Reset
*Only AW-UE150	OSS.20.0x[uata]	1: Hold
Preset Zoom Mode	OSE:7D:[data]	0: Mode A
**Only AW-UE150	OOL.7 D.[data]	1: Mode B
Operation Lock Status	OSJ:40:[data1]:[data	[Data1]
*Only AW-UE150	2]	0: Unlock
	1	1: Lock
		[Data2]
		Any Information (40 Charactors)
ERROR INFORMATION	OSI:46:0x[data]	00000000h: No Error
		00000001h: Fan Error
		00000002h: High Temperature
		00000004h: Lens Error
		00000008h: Pan/Tilt Error
D.T. N	DOI: 1 475 1 4 07	00000010h: Sensor Error
P/T Absolute Position Control	aPC[data1][data2]	[Data1]Pan Position
※Only AW-UE150		0000h: CCW Limit
		8000h: Center
		~
		FFFFh: CW Limit
		TTTTI. OVV EITING
		[Data2]Tilt Position
		0000h: UP Limit
		~
		8000h: Center
		~
		FFFFh: DOWN Limit
Power On Position	OSJ:45:[data]	0: None
		1: Standby
		2: Home
Device On Decest November	001.40.[4-4-1	3: Preset 00: Preset001
Power On Preset Number ※Only AW-UE150	OSJ:46:[data]	○ OU. Presetou i
%Only AVV-0E130		99: Preset100
Shooting Mode	OSI:30:[data]	0: NORMAL
**Only AK-UB300/AW-UE150	OOI.00.[data]	1: HIGH SENS.
A.IRIS LEVEL	OSI:1D:0x[data]	00h: 0
		~
		64h :100
LOW GAIN	OSA:50:0x[data]	7Ah: -6dB
		~
		88h: 36dB
MID GAIN	OSA:51:0x[data]	7Ah: -6dB
		~
		88h: 36dB
HIGH GAIN	OSA:52:0x[data]	7Ah: -6dB
		~
MODE OO CAN	004.0051.4.3	88h: 36dB
MODE @S.GAIN	OSA:60:[data]	0: S.GAIN1
		1: S.GAIN2
MATRIX	OSC: 40:Idata1	2: S.GAIN3
MATRIX	OSG:A0:[data]	0: Off
	OSA:84:[data]	1: On 0: Off
INIVILVIV INDEE	USA.04.[uata]	U. OII

Camera information	Command	[data] section
(LINEAR MATRIX)		1: On
*Only AK-UB300		2: On
MATRIX TABLE	OSA:00:[data]	0: TABLE A
※Only AK-UB300		1: TABLE B
MATRIX (R-G)_N	OSG:A5:N:0x[data]	00h: -31
**Only AK-UB300		~ 1Fh: 0
		~
		3Eh: 31
MATRIX (R-G)_P	OSG:A5:P:0x[data]	00h: -31
		~
		1Fh: 0
		3Eh: 31
MATRIX (R-B)_N	OSG:A6:N:0x[data]	00h: -31
%Only AK-UB300		~
		1Fh: 0
		~ 25b; 24
MATRIX (R-B)_P	OSG:A6:P:0x[data]	3Eh: 31 00h: -31
*Only AK-UB300	OOO.Ao.i .ox[data]	~
// Stray / 11 C 2 2 C C		1Fh: 0
		~
	000 47110 51 4 3	3Eh: 31
MATRIX (G-R)_N	OSG:A7:N:0x[data]	00h: -31
**Only AK-UB300		1Fh: 0
		~
		3Eh: 31
MATRIX (G-R)_P	OSG:A7:P:0x[data]	00h: -31
		~ 45h. 0
		1Fh: 0
		3Eh: 31
MATRIX (G-B)_N	OSG:A8:N:0x[data]	00h: -31
		~
		1Fh: 0
		~ 3Eh: 31
MATRIX (G-B) P	OSG:A8:P:0x[data]	00h: -31
**Only AK-UB300		~
		1Fh: 0
		~ 25h; 24
MATRIX (B-R) N	OSG:A9:N:0x[data]	3Eh: 31 00h: -31
*Only AK-UB300	JOO.As.N.UX[uata]	001131 ~
,,		1Fh: 0
		~
MATRIX (D.D)	000 40 50 51 65	3Eh: 31
MATRIX (B-R)_P	OSG:A9:P:0x[data]	00h: -31
AOIIIy AIX-00000		1Fh: 0
		~
		3Eh: 31
MATRIX (B-G)_N	OSG:AA:N:0x[data]	00h: -31
**Only AK-UB300		~

Camera information	Command	[data] section
		1Fh: 0
		~ 25h: 24
MATRIX (B-G)_P	OSG:AA:P:0x[data]	3Eh: 31 00h: -31
**Only AK-UB300	OCC., V.I.I .Ox[data]	~
		1Fh: 0
		~ 3Eh: 31
COLOR CORRECTION	OSA:85:[data]	0: Off
		1: On
COLOR CORRECT TABLE	OSG:A4:[data]	0: A
	OSG:B0:[data]	1: B 0: Off
*Only AK-UB300	OOO.bo.[data]	1: On
SKIN AREA TABLE	OSG:B1:[data]	0: A
**Only AK-UB300	000 000 011 11	1: B
SKIN AREA HUE **Only AK-UB300	OSG:B2:0x[data]	01h: -127 ∼
XOIIIY AIX-OBSOO		80h: 0
		~
OKINI ADEA TONE	000 00 0 11 11	FFh: 127
SKIN AREA TONE **Only AK-UB300	OSG:B3:0x[data]	01h: -127 ∼
XOTHY AIX OBOOD		80h: 0
		~
	000001111	FEh: 126
CHROMA LEVEL SWITCH	OSG:93:[data]	0: Off 1: On
H DTL LEVEL	OSA:31:0x[data]	00h: 0
		~
V DETAIL LEVEL	000 00 0 11 1 1	3Fh :63
V DETAIL LEVEL	OSG:32:0x[data]	00h: 0
2. Chily full Obood		3Fh :63
PEAK FREQUENCY	OSG:30:0x[data]	00h: 0
		~ 1Fh: 31
V DETAIL FREQUENCY	OSG:35:0x[data]	00h: 0
*Only AK-UB300	o o o ioo ion[adia]	~
		1Fh: 31
NOISE SUPPRESS/CRISP	OSD:22:0x[data]	00h: 0 ∼
		3Fh:63
DETAIL +CLIP	OSG:40:0x[data]	00h: 0
		~
DETAIL -CLIP	OSG:41:0x[data]	3Fh :63 00h: 0
**Only AK-UB300	OGG.41.UX[uata]	00n. 0 ~
, =====		3Fh :63
DETAIL SOURCE	OSA:3B:[data]	0: (G+R)/2
※Only AK-UB300		1: (G+B)/2
		2: (2G+B+R)/4 3: (3G+R)/4
		4: R
		5: G
LEVEL DEPENDENT SWITCH	OSG:3E:[data]	0: Off

Camera information	Command	[data] section
**Only AK-UB300	Command	1: On
LEVEL DEPENDENT	OSD:26:0x[data]	00h: 0
**Only AK-UB300		~
,		0Fh :15
SKIN GET (CURSOR)	OSA:41:[data]	0: Off
		1: On
		2: Get
MEMORY SELECT	OSG:42:[data]	0: A
		1: B 2: C
H POSITION	OSG:44:0x[data]	000h: 0%
**Only AK-UB300	000.44.0X[data]	~
, Account at 0,2000		190h: 100.00%
V POSITION	OSG:45:0x[data]	000h: 0%
		~
		190h: 100.00%
SKIN TONE ZEBRA	OSA:49:[data]	0: Off
**Only AK-UB300	000 4751 4 3	1: On
ZEBRA EFFECT MEMORY	OSG:47:[data]	0: A 1: B
※Only AK-UB300		2: C
		3: A+B
		4: A+C
		5: B+C
		6: A+B+C
SKIN TONE EFFECT MEMORY	OSG:48:[data]	0: A
		1: B
		2: C
		3: A+B
		4: A+C 5: B+C
		6: A+B+C
SKIN TONE CRISP	OSG:49:0x[data]	41h: -63
**Only AK-UB300		~
		80h: 0
		~
		BFh: 63
SKIN TONE DTL I CENTER (HD)	OSA:45:0x[data]	00h: 0
		~
SKIN TONE DTL I WIDTH (HD)	OSA:46:0x[data]	FFh: 255 00h: 0
**SON YONE DIETWIDTH (HD)	OSA.40.0x[uala]	0011. 0 ~
7.Comy / tit OBOOO		FFh: 255
SKIN TONE DTL Q WIDTH (HD)	OSA:47:0x[data]	00h: 0
XOnly AK-UB300 ✓		~
-		FFh: 255
SKIN TONE Q PHASE	OSG:4F:0x[data]	000h: 0
		~
OLEAN BNB	000 04 51 7 3	167h: 359
CLEAN DNR	OSD:3A:[data]	00: Off
※Only AK-UB300		01: On 02: On
DNR LEVEL	OSG:B5:[data]	1
**Only AK-UB300	Joo. Do. [data]	~
		5
HAZE REDUCTION	OSG:B6:[data]	0: Off

Camera information	Command	[data] section
*Only AK-UB300		1: On
HAZE REDUCTION LEVEL	OSG:B7:[data]	1
*Only AK-UB300	OCC.D7.[data]	~
// Acting / act observed		3
GEN-LOCK INPUT	OSG:CA:[data]	0: BNC
		1: DSUB
H PHASE-COARSE	OSG:CB:0x[data]	3h: -5
		~
		8h: 0
		~
		Dh: +5
H PHASE-FINE	OSG:CC:0x[data]	1Ch: -100
**Only AK-UB300		~
		80h: 0
		~ [4b: 1400
Crop SDI Out Select	OSI:30:Idatal	E4h: +100 0: FULL
**Only AK-UB300/AW-UE150	OSI:32:[data]	1: CROP
Crop IP Out Select	OSI:33:[data]	0: FULL
**Only AK-UB300/AW-UE150	Ooi.oo.[uata]	1: CROP
CROP H POSITION	OSI:1B:0x[data]	738h: -50%
*Only AK-UB300	O O I. I D. OX[data]	~
// Acting / act observed		800h: 0%
		~
		8C8h: +50%
CROP V POSITION	OSI:1C:0x[data]	738h: -50%
**Only AK-UB300		~
		800h: 0%
		~
		8C8h: +50%
OSD Mix	OSE:7B:0x[data]	00h: OSD Mix Off
		01h: SDI On
OSD Status	00.00.14-4-1	10h: IP On
**Only AK-UB300	OSA:88:[data]	0: Off 1: On
HDR SW (MAIN)	OSI:2C:[data]	0: Off
**Only AK-UB300	OO1.20.[data]	1: On
COLORIMETRY	OSI:2D:0x[data]	00h: no effect
*Only AK-UB300	o o ii z b i o x [u a i a]	01h: BT.709
HDR SW (SDI1)	OSI:2E:[data]	0: Off
		1: On
HDR SW (IP)	OSI:2F:[data]	0: Off
		1: On
DRS SW	OSA:0D:[data]	0: Off
		1: On
HDR SW (SDI2)	OSI:31:[data]	0: Off
**Only AK-UB300		1: On
FLARE SW	OSA:11:[data]	0: Off
**Only AK-UB300	000 00 0 11 1 7	1: On
MASTER FLARE	OSG:96:0x[data]	1Ch: -100
		~ 90h: 0
		80h: 0 ~
		E4h: 100
R FLARE	OSD:35:0x[data]	9Ch: -100
**Only AK-UB300	COD.OO.Ox[data]	~
	1	1

Camera information	Command	[data] section
		00h: 0
		~ 64h: +100
G FLARE	OSD:36:0x[data]	9Ch: -100
		~
		00h: 0 ~
		64h: +100
B FLARE	OSD:37:0x[data]	9Ch: -100 ∼
**Only AK-UB300		00h: 0
		~
GAMMA SW	OCA:OA:Idetel	64h: +100
*Only AK-UB300	OSA:0A:[data]	0: Off 1: On
GAMMA MODE SELECT	OSG:86:[data]	0: HD
**Only AK-UB300		1: FILMLIKE1 2: FILMLIKE2
		3: FILMLIKE3
		4: FILM REC
MACTED CAMMA	001:04:0-1-1-1	5: VIDEO REC
MASTER GAMMA ※Only AK-UB300	OSI:34:0x[data]	05DCh: 0.1500
/// / / / / / / / / / / / / / / / / /		1194h: 0.4500
		~ 4D40h: 0.7500
R GAMMA	OSI:35:0x[data]	1D4Ch: 0.7500 35h: -75
**Only AK-UB300		~
		80h: 0 ~
		CBh: 75
B GAMMA	OSI:36:0x[data]	35h: -75
		~ 80h: 0
		~
		CBh: 75
BLACK GAMMA SW XOnly AK-UB300	OSA:0B:[data]	0: Off 1: On
R BLACK GAMMA	OSA:08:0x[data]	6Ch: -20
**Only AK-UB300		~
		80h: 0 ~
		94h: +20
B BLACK GAMMA	OSA:09:0x[data]	6Ch: -20
**Only AK-UB300		~ 80h: 0
		~
D MIES DOWN	004 000 1111	94h: +20
R KNEE POINT	OSA:22:0x[data]	1Ch: -25.00%
7.0.117.11.02000		80h: 0.00%
		~ F4b, +25 000/
B KNEE POINT	OSA:23:0x[data]	E4h: +25.00% 1Ch: -25.00%
**Only AK-UB300	30,20.0x[data]	~
		80h: 0.00%

Camera information	Command	[data] section
		~
		E4h: +25.00%
R KNEE SLOPE	OSA:26:0x[data]	1Dh: -99
		~
		80h: 0 ~
		E3h: +99
B KNEE SLOPE	OSA:27:0x[data]	1Dh: -99
		~
		80h: 0
		~
ALITO KNEE DOINT	004-00-0-1-1-1-1	E3h: +99
AUTO KNEE POINT ※Only AK-UB300	OSA:28:0x[data]	4Ah: 80.00%
%Only AR-OB300		80h: 93.50%
		~
		B6h: 107.00%
AUTO KNEE LEVEL	OSA:29:0x[data]	7Ch: 100%
		~
		85h: 109%
HLG MODE	OSI:39:[data]	0: FIX
	OSI:3A:[data]	1: VAR 0: FIX
**Only AK-UB300	OSI.SA.[uata]	1: VAR
HLG TYPE SELECT	OSI:3B:[data]	0: NORMAL
		1: STRETCH
HLG BLACK GAMMA SW	OSI:3C:[data]	0: Off
		1: On
HLG MASTER BLACK GAMMA	OSI:3D:0x[data]	60h: -32
**Only AK-UB300		~ 80h: 0
		0011. 0 ~
		A0h: +32
HLG R BLACK GAMMA	OSI:3E:0x[data]	60h: -32
		~
		80h: 0
		~
LILC D DI ACK CAMMA	OCI 2F Ovidatal	A0h: +32 60h: -32
HLG B BLACK GAMMA ※Only AK-UB300	OSI:3F:0x[data]	60n: -32
2. Strily Air Obood		80h: 0
		~
		A0h: +32
HLG SDR CONVERT GAIN	OSI:43:0x[data]	74h: -12
		77h: -9
		7Ah: -6 7Dh: -3
		80h: 0
HLG SDR CONVERT CLIP	OSI:44:[data]	0: LOW
*Only AK-UB300	,	1: MID
		2: HIGH
Option Device Type	OSI:2A:[data]	0: no option
		1: 4K default
		2: 12G option
Tally Enable	tAE[Data]	3: TICO option 0: Disable
Tally Eliable	เ∧⊏[บลเล]	U. Disable

Camera information	Command	[data] section
**Only AW-UE150		1: Enable
Tally Information	tAA[Data1] [Data2]	0(Off)
	[Data3] [Data4]	1(On)
-	[Data5] [Data6]	[Data1]
	[Data7] [Data8]	R-Tally On/Off
	[Data9]	[Data2]
	"	Wired R-Tally In On/Off
		[Data3]
		Command R-Tally In On/Off
		[Data4]
		G-Tally On/Off
		[Data5] Reserved
		[Data6]
		Command G-Tally In On/Off
		[Data7] Reserved
		[Data7] Reserved
		• •
AMD COLOD TEMPERATURE	001445050 (415	[Data9] Reserved
AWB COLOR TEMPERATURE	OSJ:4A:0x[Data1]:[[Data1]
※Only AW-UE150	Data2]	007D0h: 2000K
		~
		03A98h: 15000K
		[Data2]
		0h: Valid
		1h: Under
		2h: Over
AWB R Gain	OSJ:4B:0x[Data]	670h: -400
		~
		800h: 0
		~
		990h: 400
AWB B Gain	OSJ:4C:0x[Data]	670h: -400
※Only AW-UE150		~
		800h: 0
		~
AVAID O A :	0014005041	990h: 400
AWB G Axis	OSJ:4D:0x[Data]	670h: -400
※Only AW-UE150		~
		800h: 0
		~ 000h: 400
A dentire Metric	OC 1.45.[Data]	990h: 400
Adaptive Matrix	OSJ:4F:[Data]	0: Off 1: On
*Only AW-UE150	OC 1-E4-ID-4-1	
Tracking Data Output Serial Out	OSJ:54:[Data]	0: Off
*Only AW-UE150	001/00/10	1: On
Tracking Data Output IP Out	OSJ:55:[Data]	0: Off
*Only AW-UE150	001/00/10-4-1	1: On
Color Setting	OSJ:56:[Data]	0: Normal
*Only AW-UE150	001.57.50 + 3	1: V-Log
12G SDI/Fiber Out V-Log Output Select	OSJ:57:[Data]	0: V-Log
*Only AW-UE150	001.50 (0.4.3	1: V-709
3G SDI Out V-Log Output Select	OSJ:58:[Data]	0: V-Log
※Only AW-UE150	0015055	1: V-709
MONI Out V-Log Output Select	OSJ:59:[Data]	0: V-Log
※Only AW-UE150	0015455 : 5	1: V-709
HDMI Out V-Log Output Select	OSJ:5A:[Data]	0: V-Log
※Only AW-UE150		1: V-709

HD Integrated Camera

Interface Specifications

Camera information	Command	[data] section
Preset Iris	OSJ:5B:[Data]	0: Off
		1: On
Camera Title	OSJ:5C:[Data]	Camera Title

6. Error return

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

① 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

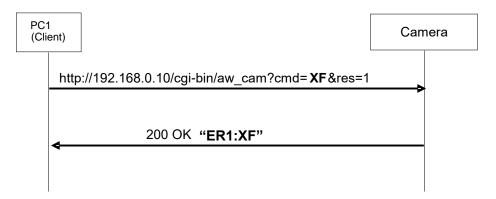


Fig.6-1 Error (ER1)

② ER2 (busy status)

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

Example) When the scene file is changed to "Manual1" during Standby.

XIn the case of the AW-HE50/AW-HE60

When the scene file is changed to "Scene1" during Standby.

XIn the case of the AW-HE120

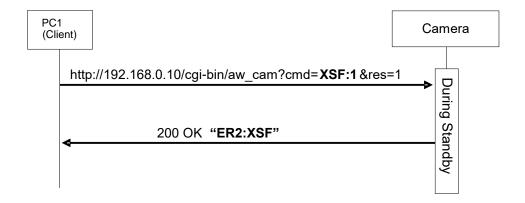


Fig.6-2 Error (ER2)

③ 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.

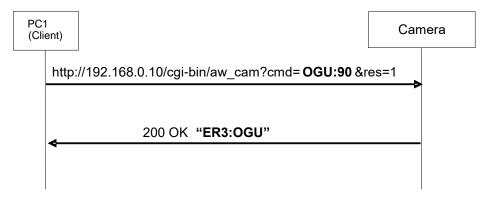


Fig.6-3 Error (ER3)

<Appendix>

This manual describes the HTTP messages using the format for input to the address bar of the web browser as in the example given below.

(Example: http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTS5050&res=1)

The actual HTTP messages are in compliance with the HTTP1.1 communication specifications, and have the [Send] and [Receive] formats as given below.

[Send]

A command such as the ones listed below is sent after connection has been made to the specified port (default: 80) which has been set for the camera.

Method: GET

GET /cgi-bin/aw_ptz?cmd=#PTS5050&res=1 HTTP/1.1[CR][LF]	Request
Accept: image/gif, (omitted) , */*[CR][LF]	
Referer: http://192.168.0.10/[CR][LF]	
Accept-Language: en[CR][LF]	
Accept-Encoding: gzip, deflate[CR][LF]	Header
User-Agent: AW-Cam Controller[CR][LF]	
Host: 192.168.0.10[CR][LF]	
Connection: Keep-Alive[CR][LF]	
[CR][LF]	Blank line

[Receive]

A message with the command name and result value contained in the message body of the HTTP response message is received.

In this manual, this message is given as 200 OK "pTS5050", but in actual fact commands such as the following ones are received.

HTTP/1.1 200 OK[CR][LF]	Response
Status: 200[CR][LF]	Header
Date: Mon, 05 Dec 2011 00:00:00 GMT[CR][LF]	
Server: ver2.4 rev0[CR][LF]	
Connection: Close[CR][LF]	
Content-Type: Text/plain[CR][LF]	
Set-Cookie: Session=0[CR][LF]	
Accept-Ranges: bytes[CR][LF]	
Cache-control: no-cache[CR][LF]	
Content-length: 7[CR][LF]	
[CR][LF]	Blank line
pTS5050	Message body