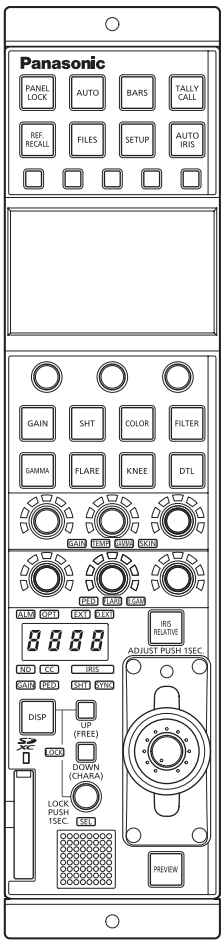
Operating Guide

Remote Operation Panel

Model No. **AK-HRP1015G**

Read this document when using the AK-HRP1015G Remote Operation Panel in conjunction with AW-UE150 Series 4K Integrated Cameras.



For details of operating Remote Operation Panel AK-HRP1015G, please visit the Panasonic website (https://pro-av.panasonic.net/manual/en/index.html), and refer to the Operating Instructions (HTML or PDF).

Panasonic

ENGLISH

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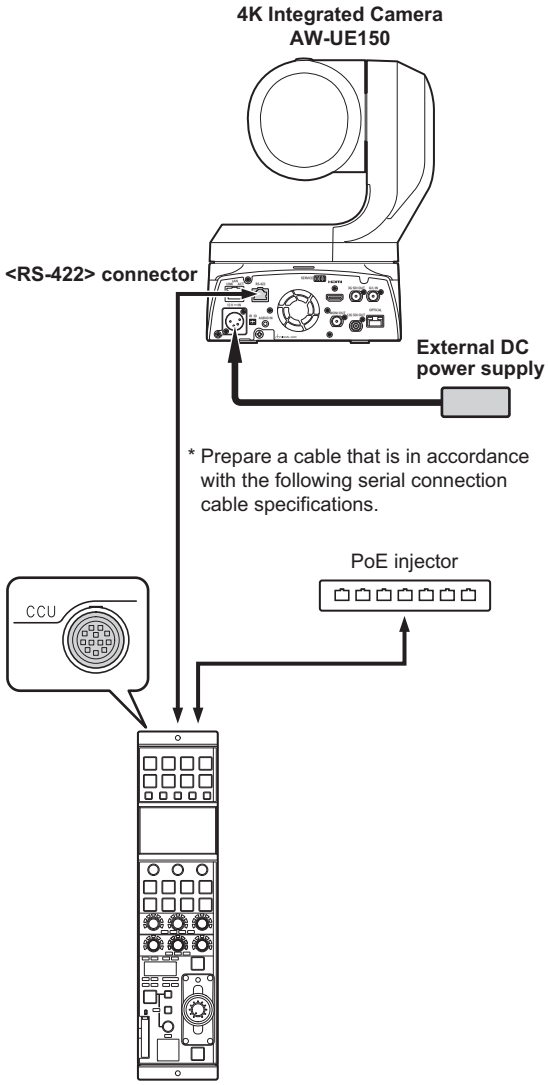
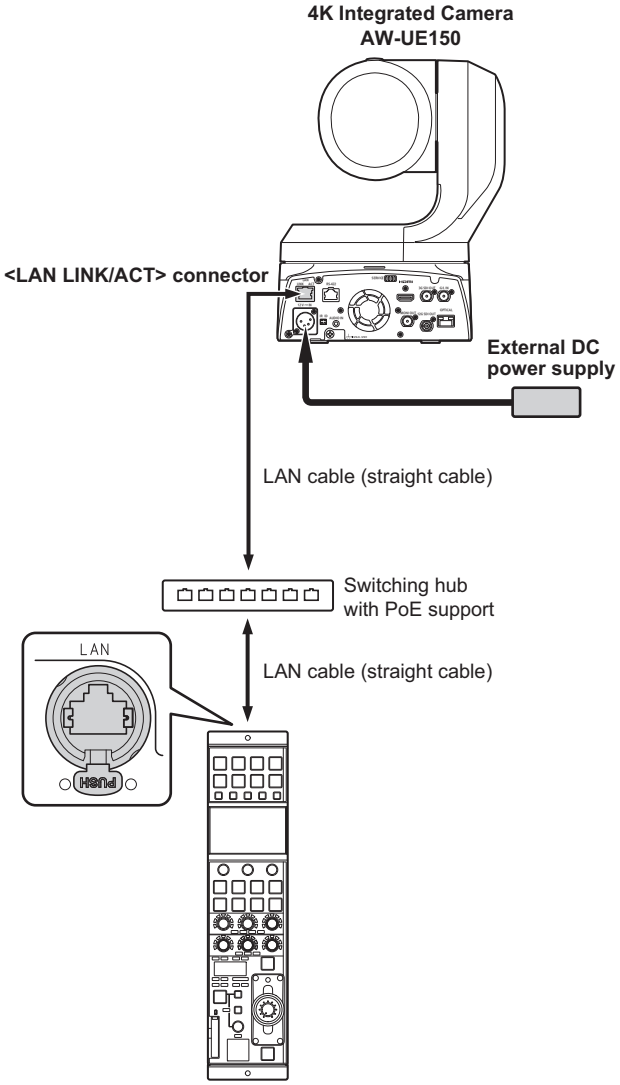
Connecting the Unit to AW-UE150 Series Cameras

Connection Example

Serial connection with AW-UE150



IP connection with AW-UE150



Serial connection cable specifications

AW-UE150
<RS-422> connector side (RJ-45)

1	GND
2	R_TALLY_IN
3	RXD-
4	TXD-
5	TXD+
6	RXD+
7	OPTION_OUT1
8	OPTION_OUT2

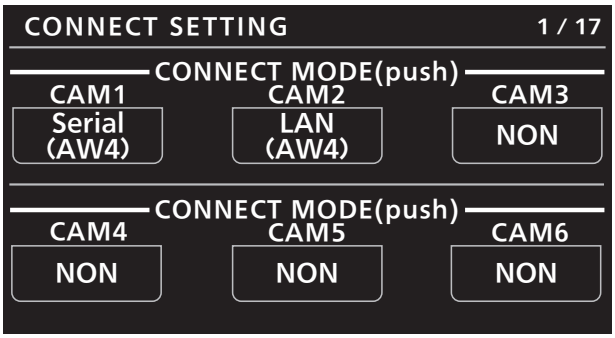
AK-HRP1015G
<CCU> connector side

Pin No.	Function	Polarity	Flow of signal
1	CAM_DATE(H)	+	CAM→ ROP
2	CAM_DATE(L)	−	CAM→ ROP
3	CAM_CONT(H)	+	ROP → CAM
4	CAM_CONT(L)	−	ROP → CAM
5	CAM_No. A		
6	CAM_No. B		
7	CAM_No. C		
8	CAM_No. D		
9	12 V		
10	GND		

Hirose : HR10A-10R-10P (71)

Connections

- Set the connection setting to “Serial(AW4)” or “LAN(AW4)” in the [CONNECT SETTING] menu.



- When connecting, observe the following points.

  Serial connection

  - Use a dedicated cable to connect the <CCU> connector of this unit to the <RS-422> connector of the AW-UE150.
  - Use a PoE injector for the power supply.

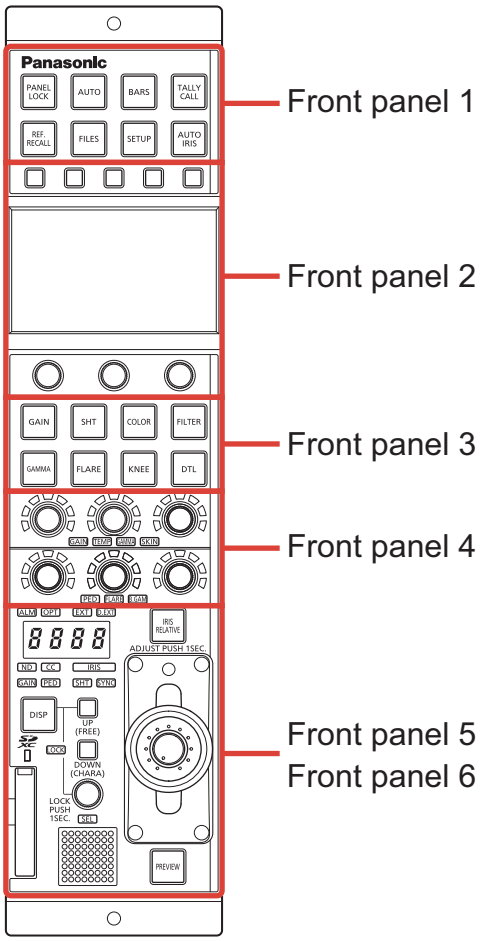
  LAN connection

  - Connect the <LAN> connector on this unit to the <LAN LINK/ACT> connector on the AW-UE150 using a LAN cable (sold separately).
  - Configure the camera IP address and port number settings of the connection destinations in [CAMERA IP SETTING] as well.
  - This unit can be powered using PoE. Use a switching hub with PoE support.
  - Use a straight cable (category 5e or higher; up to 100 m (328.0 ft) in length) for the LAN cable (STP).

- For details on switching hubs and PoE injectors that have been verified to support PoE, consult with your dealer.

Compatible Functions List

When the unit is used in conjunction with an AW-UE150 4K Integrated Camera, there will be functions that are limited or disabled for some of the unit's buttons, dials, and other controls. Be sure to refer to the following table.



Number	Part name	✓: Enabled ×: Disabled	Remarks
Front panel 1	[PANEL LOCK] button	✓	
	[AUTO] button	✓	If auto setup has been assigned, this will not operate.
	[BARS] button	✓	Only the ON/OFF for the color bar signal output will function.
	[TALLY/CALL] lamp/button	×	
	[REF. RECALL] button	×	
	[FILES] button	✓	This is always lit.
	[SETUP] button	✓	
	[AUTO IRIS] button	✓	
Front panel 2	Function buttons	✓	
	LCD panel	✓	
	Menu operation dials	✓	

Number	Part name	✓: Enabled ×: Disabled	Remarks
Front panel 3	[GAIN] button	✓	When this button is pressed, the gain menu appears on the LCD panel. The button is lit during menu display.
	[SHT] button	✓	When this button is pressed, the shutter menu appears on the LCD panel. The button is lit during menu display.
	[COLOR] button	✓	The menus will switch with each press of the button. The button is lit during menu display. [WHITE BALANCE] > [CHROMA] > [MATRIX] > [COLOR CORRECTION] > Menu off (status screen)
	[FILTER] button	✓	Only the ND filter can be configured.
	[GAMMA] button	✓	The menus will switch with each press of the button. The button is lit during menu display. [GAMMA] > [BLACK GAMMA] > Menu off (status screen)
	[FLARE] button	×	
	[KNEE] button	✓	The menus will switch with each press of the button. The button is lit during menu display. [KNEE] > [WHITE CLIP] > Menu off (status screen)
	[DTL] button	✓	The menus will switch with each press of the button. The button is lit during menu display. [DTL] > [DOWNCON DTL] > [DNR] > Menu off (status screen)
Front panel 4	[GAIN], [TEMP], [GAMMA], [SKIN] adjustment block	✓	When [GAIN] is lit, adjust [GAIN R] with the red (R) adjustment dial, and adjust [GAIN B] with the blue (B) adjustment dial. When [GAMMA] is lit, “MASTER GAMMA” is adjusted using the green (G) adjustment dial. When [TEMP] is lit, [COLOR TEMP] is adjusted with the green (G) adjustment dial. [SKIN] adjustment is disabled.
	[PED], [FLARE], [B.GAM] adjustment block	✓	When [PED] is lit, adjust [PED R] with the red (R) adjustment dial, adjust [M.PED] with the green (G) adjustment dial, and adjust [PED B] with the blue (B) adjustment dial. When [B.GAM] is lit, [BLACK GAMMA] is adjusted using the green (G) adjustment dial. [FLARE] adjustment is disabled.

Number	Part name	✓: Enabled ×: Disabled	Remarks
Front panel 5	[ALM] indicator	✓	
	[OPT] indicator	×	
	[EXT] indicator	×	
	[D.EXT] indicator	✓	
	Adjustment value display	✓	The adjustment value of the CC filter is not displayed.
	[ND] indicator	✓	
	[CC] indicator	×	
	[IRIS] indicator	✓	
	[GAIN] indicator	✓	
	[PED] indicator	✓	
	[SHT] indicator	✓	
	[SYNC] indicator	✓	
	[DISP] button	✓	
	[UP (FREE)] button	✓	
	[DOWN (CHARA)] button	✓	
	[LOCK] indicator	✓	
	[SEL] dial	✓	
Front panel 6	Memory card slot	✓	
	Memory card access indicator	✓	
	Camera number/tally display	✓	Only camera numbers are displayed.
	[IRIS RELATIVE] button	✓	
	Torque adjustment screw	✓	
	IRIS lever	✓	
	Master pedestal dial	✓	
	[PREVIEW] button	×	

ROP Menu (during AW-UE150 connection)

ROP Menu List

When an AW-UE150 4K Integrated Camera is connected, the ROP menu will be as follows.

NOTE

- To perform menu operations, upgrade the system version of the unit to V2.00-00-0.00 or later.

For details on menu operations, refer to the following sections in the Operating Instructions.

➡ "Displaying menus"
➡ "Basic menu operations"

01 SCENE	SCENE1(push)	➡ "SCENE1(push)" (see page 14)
	SCENE2(push)	➡ "SCENE2(push)" (see page 14)
	SCENE3(push)	➡ "SCENE3(push)" (see page 14)
	SCENE4(push)	➡ "SCENE4(push)" (see page 14)
02 SHUTTER SPEED	MODE	➡ "MODE" (see page 15)
	SPEED	➡ "SPEED" (see page 15)
	ELC	➡ "ELC" (see page 15)
03 FILTER	ND	➡ "ND" (see page 16)
04 PEDESTAL	M.PED	➡ "M.PED" (see page 17)
	OFFSET	➡ "OFFSET" (see page 17)
	PED R	➡ "PED R" (see page 17)
	PED G	➡ "PED G" (see page 17)
	PED B	➡ "PED B" (see page 17)
05 CHROMA	LEVEL	➡ "LEVEL" (see page 18)
	PHASE	➡ "PHASE" (see page 18)
06 GAIN	SUPER GAIN	➡ "SUPER GAIN" (see page 19)
	GAIN	➡ "GAIN" (see page 19)
	AGC MAX GAIN	➡ "AGC MAX GAIN" (see page 19)
07 WHITE BALANCE	MODE	➡ "MODE" (see page 20)
	COLOR TEMP	➡ "COLOR TEMP" (see page 20)
	GAIN OFFSET	➡ "GAIN OFFSET" (see page 20)
	GAIN R	➡ "GAIN R" (see page 20)
	GAIN B	➡ "GAIN B" (see page 20)
	ATW SPEED	➡ "ATW SPEED" (see page 20)
	ATW TRGT R	➡ "ATW TRGT R" (see page 20)
	ATW TRGT B	➡ "ATW TRGT B" (see page 20)
08 GAMMA	MODE	➡ "MODE" (see page 21)
	GAMMA	➡ "GAMMA" (see page 21)
	F-REC Dynmc LV	➡ "F-REC Dynmc LV" (see page 21)
	F-REC B.STR LV	➡ "F-REC B.STR LV" (see page 21)
	V-REC KNEE SLOPE	➡ "V-REC KNEE SLOPE" (see page 21)
	V-REC KNEE POINT	➡ "V-REC KNEE POINT" (see page 21)
09 BLACK GAMMA	BLACK GAMMA	➡ "BLACK GAMMA" (see page 22)
	RANGE	➡ "RANGE" (see page 22)

10 KNEE	MODE	➔ “MODE” (see page 23)
	A.KNEE RESPONSE	➔ “A.KNEE RESPONSE” (see page 23)
	POINT	➔ “POINT” (see page 23)
	SLOPE	➔ “SLOPE” (see page 23)
	HLG KNEE SW	➔ “HLG KNEE SW” (see page 23)
	HLG KNEE POINT	➔ “HLG KNEE POINT” (see page 23)
	HLG KNEE SLOPE	➔ “HLG KNEE SLOPE” (see page 23)
11 WHITE CLIP	WHITE CLIP	➔ “WHITE CLIP” (see page 24)
	WHITE CLP LV	➔ “WHITE CLP LV” (see page 24)
12 DRS	DRS	➔ “DRS” (see page 25)
13 DETAIL	MASTER DTL	➔ “MASTER DTL” (see page 26)
	CORING	➔ “CORING” (see page 26)
	V DTL LEVEL	➔ “V DTL LEVEL” (see page 26)
	FREQ	➔ “FREQ” (see page 26)
	LEVEL DEPEND.	➔ “LEVEL DEPEND.” (see page 26)
	KNEE APE.LEVEL	➔ “KNEE APE.LEVEL” (see page 26)
	GAIN(+)	➔ “GAIN (+)” (see page 26)
	GAIN(-)	➔ “GAIN (-)” (see page 26)
	SKIN DTL	➔ “SKIN DTL” (see page 26)
	SKIN DTL EFFECT	➔ “SKIN DTL EFFECT” (see page 26)
	DTL SW	➔ “DTL SW” (see page 26)
14 DOWNCON DTL	MASTER DTL	➔ “MASTER DTL” (see page 27)
	CORING	➔ “CORING” (see page 27)
	V DTL LEVEL	➔ “V DTL LEVEL” (see page 27)
	FREQ	➔ “FREQ” (see page 27)
	LEVEL DEPEND.	➔ “LEVEL DEPEND.” (see page 27)
	KNEE APE.LEVEL	➔ “KNEE APE.LEVEL” (see page 27)
	DTL SW	➔ “DTL SW” (see page 27)
15 MATRIX	TYPE	➔ “TYPE” (see page 28)
	R-G	➔ “R-G” (see page 28)
	R-B	➔ “R-B” (see page 28)
	G-R	➔ “G-R” (see page 28)
	G-B	➔ “G-B” (see page 28)
	B-R	➔ “B-R” (see page 28)
	B-G	➔ “B-G” (see page 28)

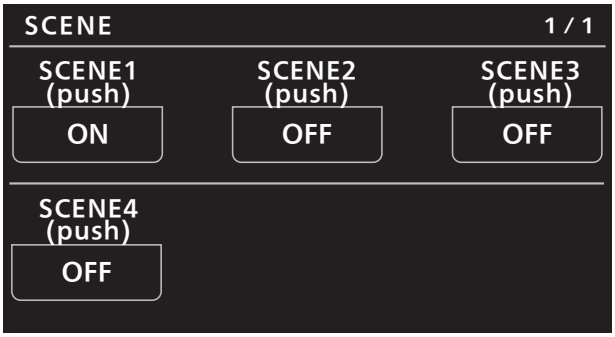
16 COLOR CORRECTION	TYPE	➔ “TYPE” (see page 30)
	COLOR CORRECT	➔ “COLOR CORRECT” (see page 30)
	SAT	➔ “SAT” (see page 30)
	PHASE	➔ “PHASE” (see page 30)
	SAT B_Mg	➔ “SAT B_Mg” (see page 30)
	PHASE B_Mg	➔ “PHASE B_Mg” (see page 30)
	SAT Mg	➔ “SAT Mg” (see page 30)
	PHASE Mg	➔ “PHASE Mg” (see page 30)
	SAT Mg_R	➔ “SAT Mg_R” (see page 30)
	PHASE Mg_R	➔ “PHASE Mg_R” (see page 30)
	SAT Mg_R_R	➔ “SAT Mg_R_R” (see page 30)
	PHASE Mg_R_R	➔ “PHASE Mg_R_R” (see page 30)
	SAT R	➔ “SAT R” (see page 31)
	PHASE R	➔ “PHASE R” (see page 31)
	SAT R_R_YI	➔ “SAT R_R_YI” (see page 31)
	PHASE R_R_YI	➔ “PHASE R_R_YI” (see page 31)
	SAT R_YI	➔ “SAT R_YI” (see page 31)
	PHASE R_YI	➔ “PHASE R_YI” (see page 31)
	SAT R_YI_YI	➔ “SAT R_YI_YI” (see page 31)
	PHASE R_YI_YI	➔ “PHASE R_YI_YI” (see page 31)
	SAT YI	➔ “SAT YI” (see page 31)
	PHASE YI	➔ “PHASE YI” (see page 31)
	SAT YI_YI_G	➔ “SAT YI_YI_G” (see page 31)
	PHASE YI_YI_G	➔ “PHASE YI_YI_G” (see page 31)
	SAT YI_G	➔ “SAT YI_G” (see page 31)
	PHASE YI_G	➔ “PHASE YI_G” (see page 31)
	SAT G	➔ “SAT G” (see page 31)
	PHASE G	➔ “PHASE G” (see page 31)
	SAT G_Cy	➔ “SAT G_Cy” (see page 31)
	PHASE G_Cy	➔ “PHASE G_Cy” (see page 31)
	SAT Cy	➔ “SAT Cy” (see page 31)
	PHASE Cy	➔ “PHASE Cy” (see page 31)
	SAT Cy_B	➔ “SAT Cy_B” (see page 31)
	PHASE Cy_B	➔ “PHASE Cy_B” (see page 31)
	SAT B	➔ “SAT B” (see page 31)
	PHASE B	➔ “PHASE B” (see page 31)
17 DNR	DNR	➔ “DNR” (see page 32)
18 BRIGHTNESS	PICTURE LEVEL	➔ “PICTURE LEVEL” (see page 33)
	FRAME MIX	➔ “FRAME MIX” (see page 33)
	DAY/NIGHT	➔ “DAY/NIGHT” (see page 33)

19 LENS CONTROL	FOCUS MODE	➔ “FOCUS MODE” (see page 34)
	FOCUS SPEED	➔ “FOCUS SPEED” (see page 34)
	FOCUS	➔ “FOCUS” (see page 34)
	ZOOM WIDE	➔ “ZOOM WIDE” (see page 34)
	ZOOM SPEED	➔ “ZOOM SPEED” (see page 34)
	ZOOM TELE	➔ “ZOOM TELE” (see page 34)
	DIGITAL ZOOM SW	➔ “DIGITAL ZOOM SW” (see page 34)
	DIGITAL ZOOM MAX	➔ “DIGITAL ZOOM MAX” (see page 34)
	DIGITAL ZOOM D.EXT	➔ “DIGITAL ZOOM D.EXT” (see page 34)
20 IRIS RELATIVE	SENSE	➔ “SENSE” (see page 35)
	COARSE	➔ “COARSE” (see page 35)
	RELATIVE	➔ “RELATIVE” (see page 35)
21 SYSTEM CAM	FORMAT	➔ “FORMAT” (see page 36)
	FREQUENCY	➔ “FREQUENCY” (see page 36)
	12G 3G SDI	➔ “12G 3G SDI” (see page 36)
	3G 3G SDI	➔ “3G 3G SDI” (see page 36)
	I.S.	➔ “I.S.” (see page 36)
	OSD 12G	➔ “OSD 12G” (see page 36)
	OSD 3G	➔ “OSD 3G” (see page 36)
	OSD MONI	➔ “OSD MONI” (see page 36)
	OSD HDMI	➔ “OSD HDMI” (see page 37)
	OSD IP	➔ “OSD IP” (see page 37)
	OSD STATUS	➔ “OSD STATUS” (see page 37)
	AUDIO	➔ “AUDIO” (see page 37)
	GENLOCK PHASE	➔ “GENLOCK PHASE” (see page 37)
	HEAD PW(push)	➔ “HEAD PW(push)” (see page 37)
	TALLY CONTROL	➔ “TALLY CONTROL” (see page 37)
	TALLY INPUT	➔ “TALLY INPUT” (see page 37)
	TALLY SIGNAL	➔ “TALLY SIGNAL” (see page 37)
	TALLY CONT MD	➔ “TALLY CONT MD” (see page 37)
22 CAMERA MENU CONTROL	MENU ON/OFF	➔ “MENU ON/OFF” (see page 38)
	CURSOR/PARAMETER	➔ “CURSOR/PARAMETER” (see page 38)
	EXECUTE	➔ “EXECUTE” (see page 38)

23 ROP SETTING	IRIS LEV MODE	Refer to the following section in the Operating Instructions. ➔ "37 ROP SETTING"
	M.PED CONT	
	LOCK SELECT	
	AUTO BUTTON	
	G/M PED VOL	
	FREE+LOCK	
	CAM SEL	
	DTL BUTTON	
	SKIN VOL	
	LCD BRIGHT	
	PANEL BRIGHT	
	B.GAMMA VOL	
	BUZZER	
	PERIOD	
	CYCLE	
	STD POSITION M.GAIN	
	STD POSITION VAR	
	STD POSITION ND	
	STD POSITION CC	
	IRIS PRIORITY	
	ROP DATA SAVE	
	ROP DATA LOAD	
	SD CARD FORMAT	
	INITIAL with NW	
	INITIAL	
	UPGRADE	
	IRIS CALIBRATION TOP	
	IRIS CALIBRATION BOTTOM	
	SYSTEM VERSION	
	SOFT VERSION	
	FPGA VERSION	
24 CONNECT SETTING	CONNECT MODE(push) CAM1	➔ "CONNECT MODE(push) CAM1" (see page 40)
	CONNECT MODE(push) CAM2 to CAM99	➔ "CONNECT MODE(push) CAM2 to CAM99" (see page 40)

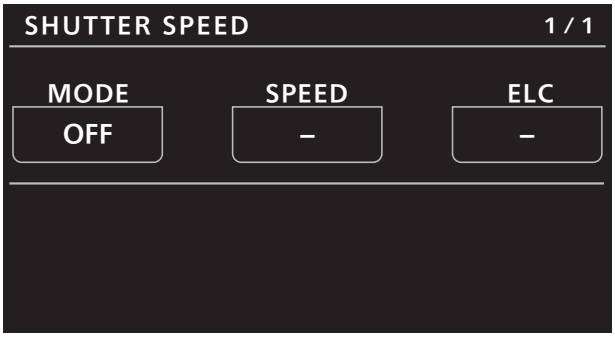
25 ROP IP SETTING	IP ADDRESS 1	Refer to the following section in the Operating Instructions. ➡ "39 ROP IP SETTING"
	IP ADDRESS 2	
	IP ADDRESS 3	
	IP ADDRESS 4	
	IP ADDRESS PORT	
	IP ADDRESS UPLOAD	
	SUBNET MASK 1	
	SUBNET MASK 2	
	SUBNET MASK 3	
	SUBNET MASK 4	
	SUBNET MASK UPLOAD	
	DEFAULT GATEWAY	
	DEFAULT GATEWAY UPLOAD	
	MAC ADDRESS	
26 CAMERA IP SETTING	CAM1 to CAM99 IP ADDRESS	Refer to the following section in the Operating Instructions. ➡ "40 CAMERA IP SETTING"
	CAM1 to CAM99 PORT	
	CAM1 to CAM99 INF UPLOAD	
27 AUTO IRIS SETTING	IRIS SPEED	➡ "IRIS SPEED" (see page 42)
	IRIS WINDOW	➡ "IRIS WINDOW" (see page 42)
28 SWITCHER LINK	SW' IP	➡ "SW'IP" (see page 43)
	RECEIVE UDP PORT	➡ "RECEIVE UDP PORT" (see page 43)
	UPLOAD	➡ "UPLOAD" (see page 43)
	SWITCHER LINK	➡ "SWITCHER LINK" (see page 43)
	TALLY RECEIVE	➡ "TALLY RECEIVE" (see page 43)
	PREVIEW	➡ "PREVIEW" (see page 43)
	TALLY ACTION MATERIAL	➡ "TALLY ACTION MATERIAL" (see page 43)
	TALLY ACTION CAM No.	➡ "TALLY ACTION CAM No." (see page 43)
29 AW CONTROLLER LINK	RECEIVE PORT	Refer to the following section in the Operating Instructions. ➡ "47 AW CONTROLLER LINK"
	INFO UPLOAD	
	AW CONT LINK	

01 SCENE



Item	Setting details
SCENE1(push)	Switches the scene file. ● Switches to the scene set to ON.
SCENE2(push)	
SCENE3(push)	
SCENE4(push)	

02 SHUTTER SPEED

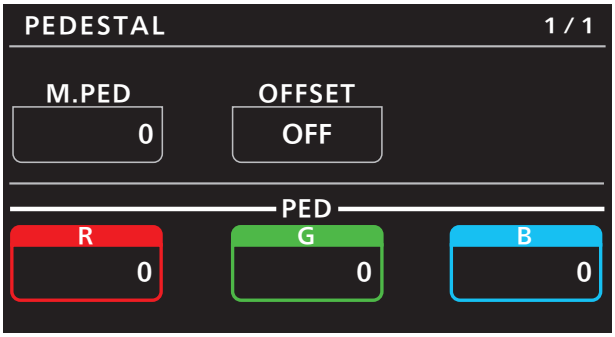


Item	Setting details
MODE	Selects the operation mode of the shutter.
SPEED	Sets the shutter speed.
ELC	Sets the maximum shutter value for ELC operation.

03 FILTER

Item	Setting details
ND	Sets the transmittance of the lens' built-in ND (neutral density) filter.

04 PEDESTAL

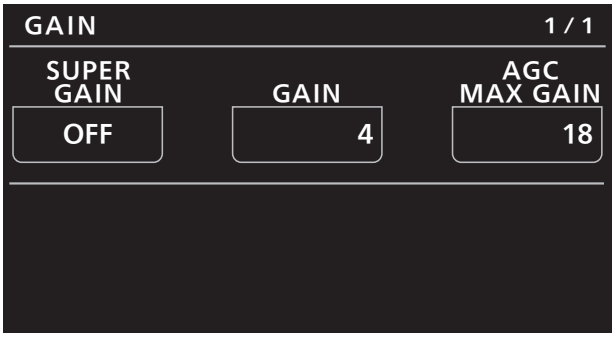


Item	Setting details
M.PED	Adjusts the black level of the master pedestal.
OFFSET	Sets the [PED R], [PED G], and [PED B] pedestal levels when the auto black balance is adjusted.
PED R	Sets the correction level of red to the master pedestal.
PED G	Sets the correction level of green to the master pedestal.
PED B	Sets the correction level of blue to the master pedestal.

05 CHROMA

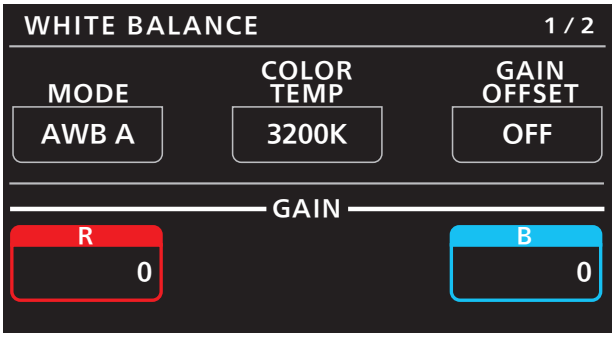
Item	Setting details
LEVEL	Sets the color intensity of images.
PHASE	Finely adjusts the color phase of images.

06 GAIN



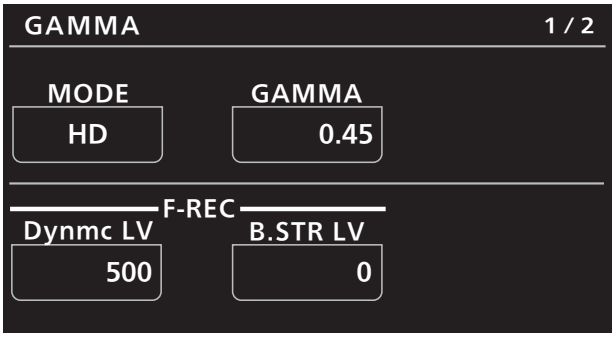
Item	Setting details
SUPER GAIN	Sets the super gain (increased sensitivity) to ON/OFF.
GAIN	Adjusts the gain of images.
AGC MAX GAIN	When “AUTO” is selected as the [GAIN] setting, the maximum gain-up amount can be set.

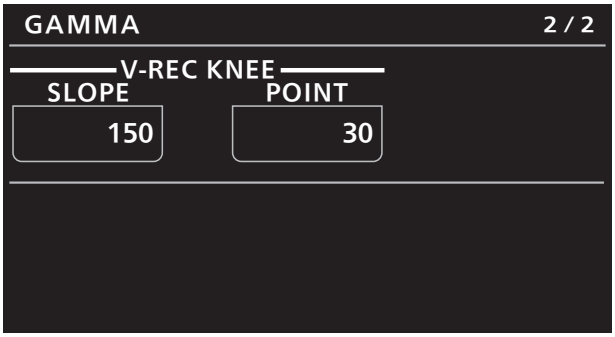
07 WHITE BALANCE



Item	Setting details
MODE	Sets the white balance mode.
COLOR TEMP	Sets color temperature settings.
GAIN OFFSET	Sets the [GAIN R] and [GAIN B] values when the [MODE] is set to “AWB A” or “AWB B”.
GAIN R	Adjusts the R gain.
GAIN B	Adjusts the B gain.
ATW SPEED	Sets the control speed of the ATW function.
ATW TRGT R	Finely adjusts the [GAIN R] output when converged in the auto tracking white balance operation.
ATW TRGT B	Finely adjusts the [GAIN B] output when converged in the auto tracking white balance operation.

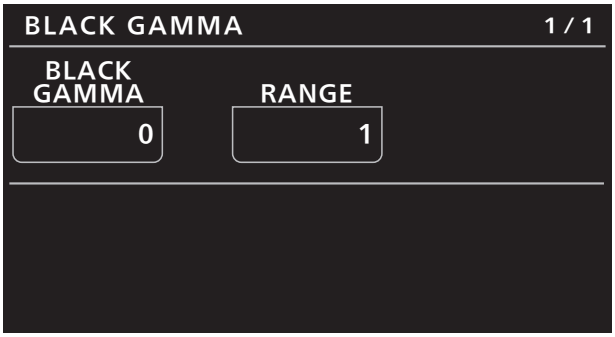
08 GAMMA





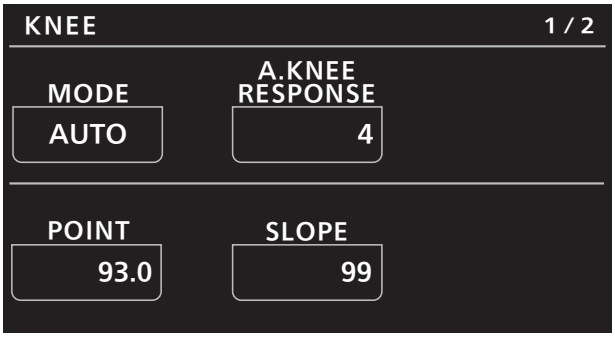
Item	Setting details
MODE	Selects the type of gamma curve.
GAMMA	Sets the gamma.
F-REC Dynmc LV	Sets the dynamic range.
F-REC B.STR LV	Sets the black stretch.
V-REC KNEE SLOPE	Sets the knee slope.
V-REC KNEE POINT	Sets the knee point.

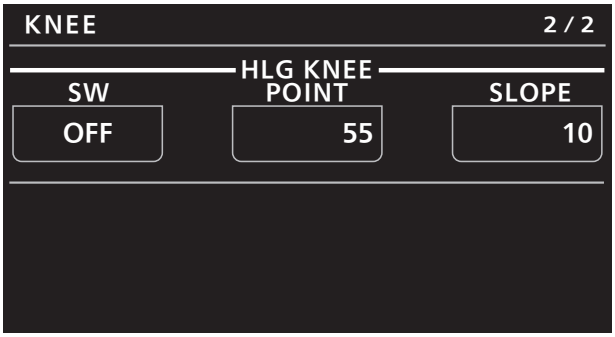
09 BLACK GAMMA



Item	Setting details
BLACK GAMMA	Sets the gamma curve for dark areas.
RANGE	Sets the maximum level for compression/expansion.

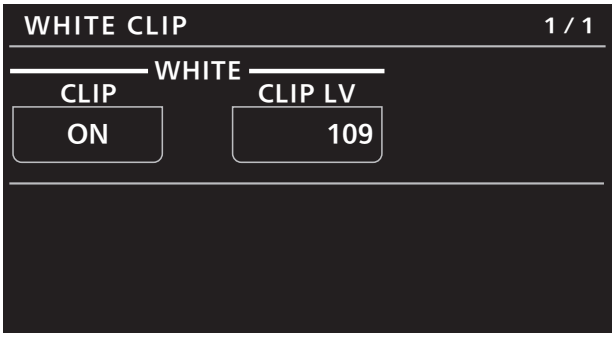
10 KNEE





Item	Setting details
MODE	Sets the operating mode for gradation compression (knee). ● When [DRS] is enabled, the knee settings are disabled.
A.KNEE RESPONSE	Sets the auto knee response speed.
POINT	Sets the compression level (knee point) position for high-brightness video signals.
SLOPE	Sets the knee slope.
HLG KNEE SW	Turns ON/OFF knee operation for when [GAMMA] > [MODE] is “HLG”.
HLG KNEE POINT	Sets the knee point position for when [GAMMA] > [MODE] is “HLG”.
HLG KNEE SLOPE	Sets the knee slope for when [GAMMA] > [MODE] is “HLG”.

11 WHITE CLIP

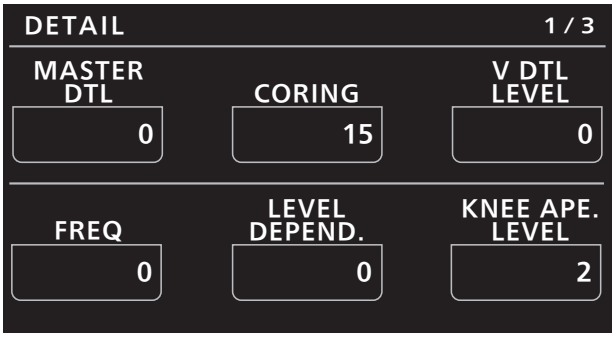


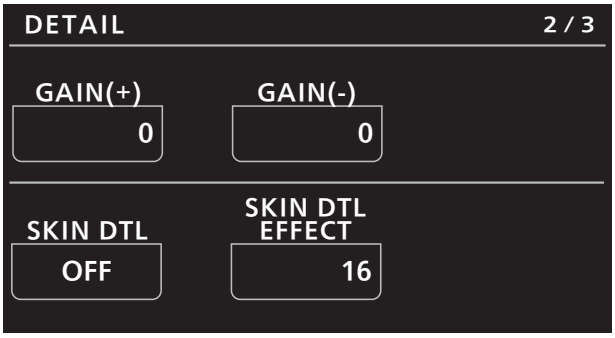
Item	Setting details
WHITE CLIP	Sets the white clip function to ON/OFF.
WHITE CLP LV	Sets the white clip level.

12 DRS

Item	Setting details
DRS	Sets the DRS function, which performs correction when video with high light/dark contrast is displayed, to ON/OFF.

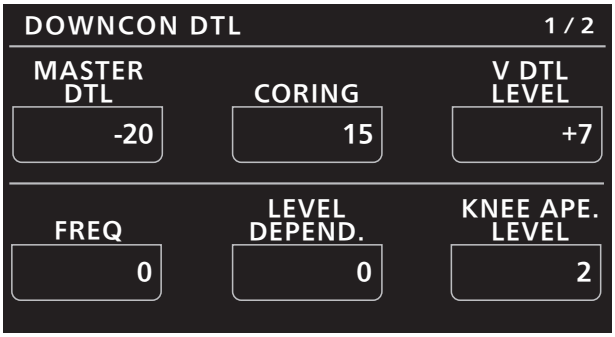
13 DETAIL

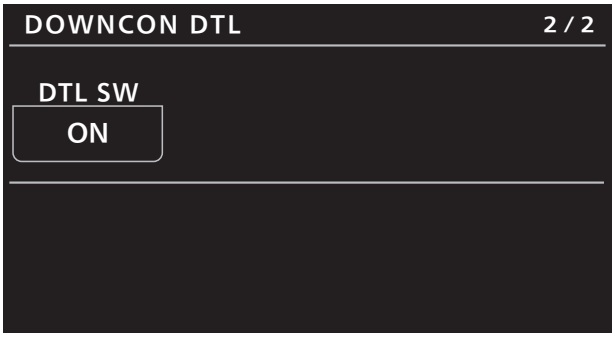




Item	Setting details
MASTER DTL	Adjusts the contour correction level (master).
CORING	Sets the level of signal (including noise) that does not activate the detail effect.
V DTL LEVEL	Adjusts the vertical contour correction level.
FREQ	Sets the boost frequency for detail.
LEVEL DEPEND.	Compresses the detail in the dark areas when the detail of the bright signal is emphasized.
KNEE APE.LEVEL	Sets the detail level of high luminosity areas (extremely bright areas).
GAIN (+)	Sets the detail level of the plus direction (direction to make brighter).
GAIN (-)	Sets the detail level of the minus direction (direction to make darker).
SKIN DTL	Sets the function to make the skin of subjects appear smoother and more attractive to ON/OFF.
SKIN DTL EFFECT	The higher the setting value, the smoother the skin of the subjects you shoot appears.
DTL SW	Sets image contour (image sharpness) adjustment to ON/OFF.

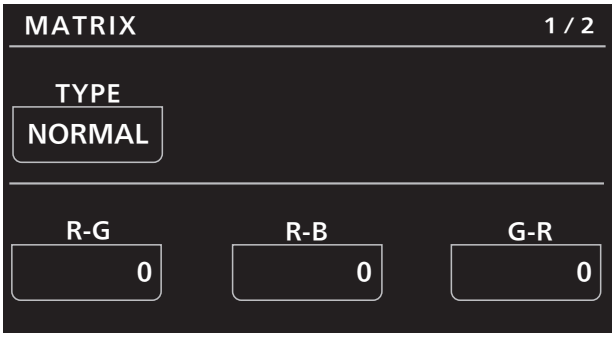
14 DOWNCON DTL

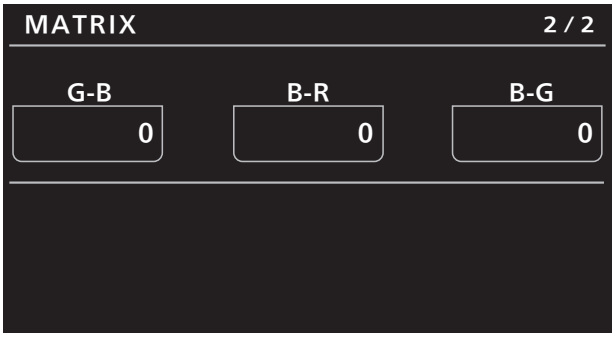




Item	Setting details
MASTER DTL	Adjusts the contour correction level (master) for images down-converted from 4K to HD.
CORING	Sets the level of signal (including noise) that does not activate the detail effect for images down-converted from 4K to HD.
V DTL LEVEL	Adjusts the vertical contour correction level for images down-converted from 4K to HD.
FREQ	Sets the boost frequency of detail for images down-converted from 4K to HD.
LEVEL DEPEND.	Compresses the detail in bright areas for images down-converted from 4K to HD.
KNEE APE.LEVEL	Sets the detail level of high luminosity areas (extremely bright areas) for images down-converted from 4K to HD.
DTL SW	Sets image contour (image sharpness) adjustment to ON/OFF for images down-converted from 4K to HD.

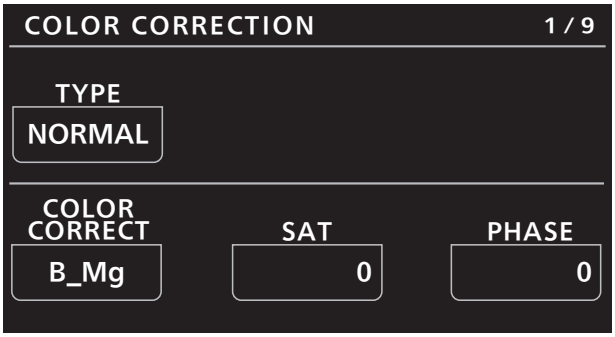
15 MATRIX

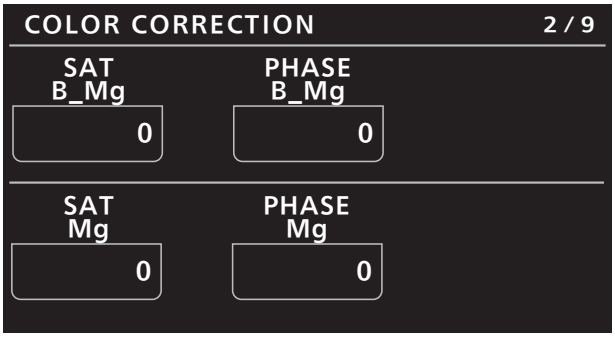


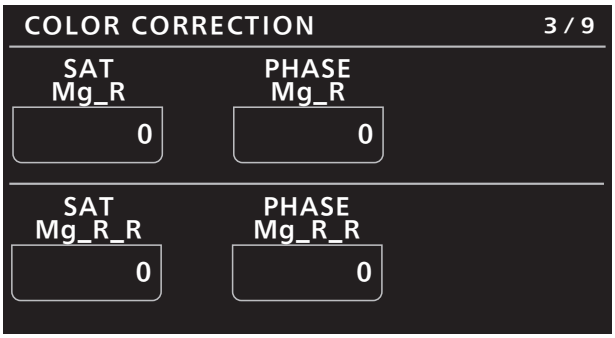


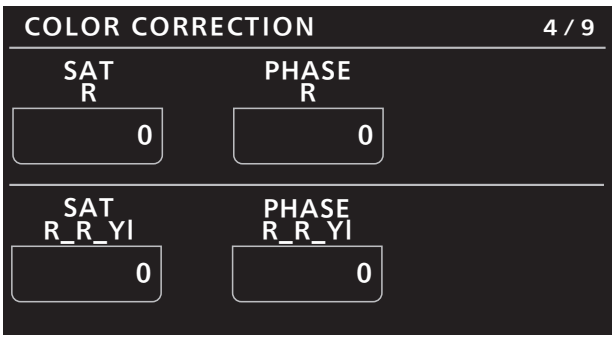
Item	Setting details
TYPE	Selects the type of color matrix.
R-G	Adjusts the linear matrix between red and green.
R-B	Adjusts the linear matrix between red and blue.
G-R	Adjusts the linear matrix between green and red.
G-B	Adjusts the linear matrix between green and blue.
B-R	Adjusts the linear matrix between blue and red.
B-G	Adjusts the linear matrix between blue and green.

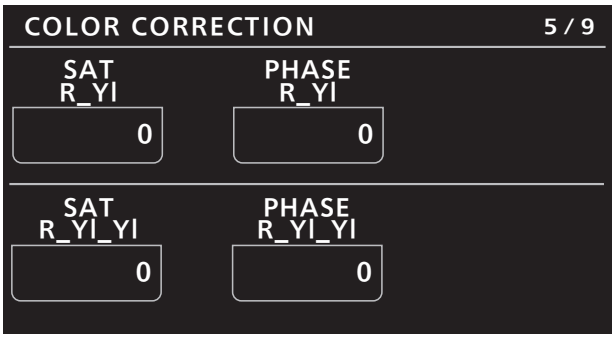
16 COLOR CORRECTION

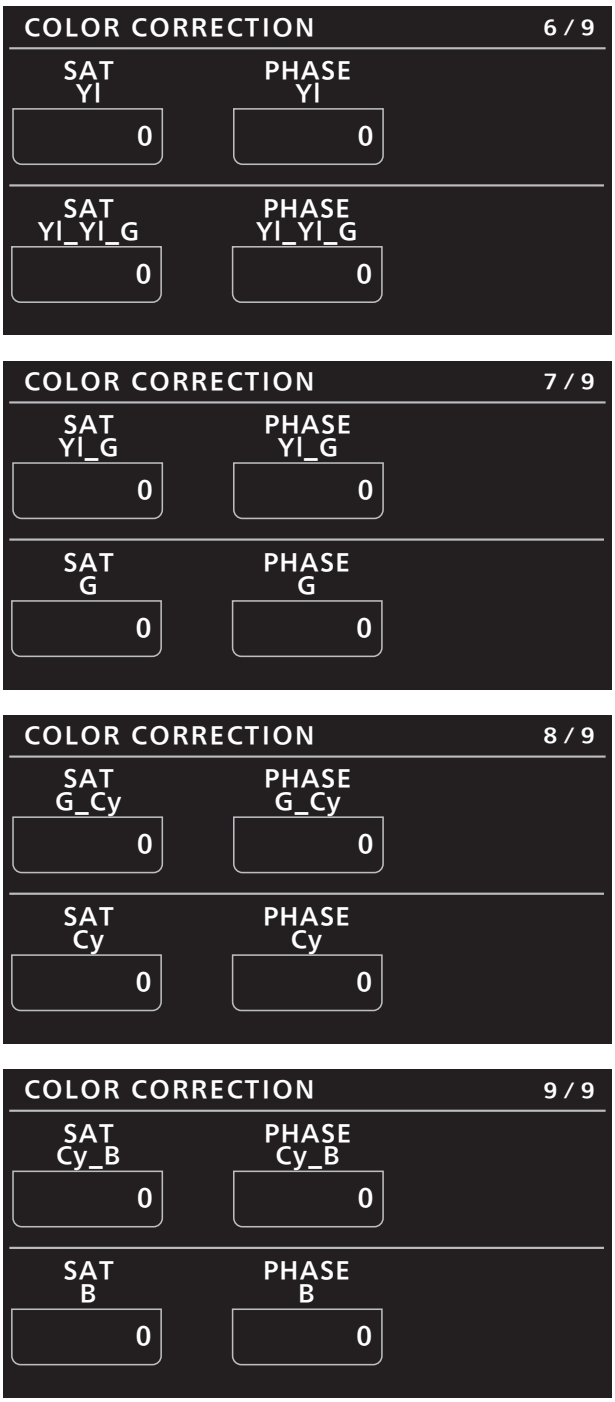












Item	Setting details
TYPE	Selects the type of color matrix.
COLOR CORRECT	Selects the color component in 12-axis matrix memory to adjust.
SAT	Adjusts the saturation of the color component selected in [COLOR CORRECT].
PHASE	Adjusts the hue of the color component selected in [COLOR CORRECT].
SAT B_Mg	Adjusts the color saturation between blue and magenta.
PHASE B_Mg	Adjusts the hue between blue and magenta.
SAT Mg	Adjusts magenta color saturation.
PHASE Mg	Adjusts magenta hue.
SAT Mg_R	Adjusts the color saturation between magenta and red.
PHASE Mg_R	Adjusts the hue between magenta and red.
SAT Mg_R_R	Adjusts the color saturation with a 1:3 magenta to red ratio.
PHASE Mg_R_R	Adjusts the hue with a 1:3 magenta to red ratio.

Item	Setting details
SAT R	Adjusts red color saturation.
PHASE R	Adjusts red hue.
SAT R_R_YI	Adjusts the color saturation with a 3:1 red to yellow ratio.
PHASE R_R_YI	Adjusts the hue with a 3:1 red to yellow ratio.
SAT R_YI	Adjusts the color saturation between red and yellow.
PHASE R_YI	Adjusts the hue between red and yellow.
SAT R_YI_YI	Adjusts the color saturation with a 1:3 red to yellow ratio.
PHASE R_YI_YI	Adjusts the hue with a 1:3 red to yellow ratio.
SAT YI	Adjusts yellow color saturation.
PHASE YI	Adjusts yellow hue.
SAT YI_YI_G	Adjusts the color saturation with a 3:1 yellow to green ratio.
PHASE YI_YI_G	Adjusts the hue with a 3:1 yellow to green ratio.
SAT YI_G	Adjusts the color saturation between yellow and green.
PHASE YI_G	Adjusts the hue between yellow and green.
SAT G	Adjusts green color saturation.
PHASE G	Adjusts green hue.
SAT G_Cy	Adjusts the color saturation between green and cyan.
PHASE G_Cy	Adjusts the hue between green and cyan.
SAT Cy	Adjusts cyan color saturation.
PHASE Cy	Adjusts cyan hue.
SAT Cy_B	Adjusts the color saturation between cyan and blue.
PHASE Cy_B	Adjusts the hue between cyan and blue.
SAT B	Adjusts blue color saturation.
PHASE B	Adjusts blue hue.

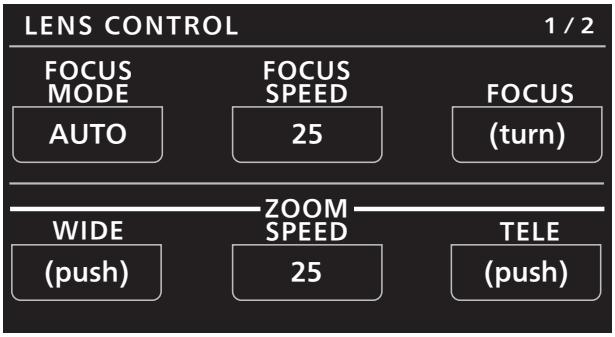
17 DNR

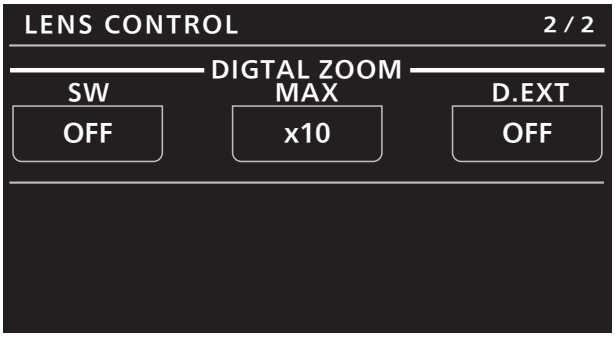
Item	Setting details
DNR	Sets the level for the noise reduction.

18 BRIGHTNESS

Item	Setting details
PICTURE LEVEL	Sets the target picture level for auto exposure correction.
FRAME MIX	Selects for frame addition (gain-up using sensor storage) amount.
DAY/NIGHT	Switches between standard shooting (day mode) and night-vision shooting (night mode: shooting with infrared light).

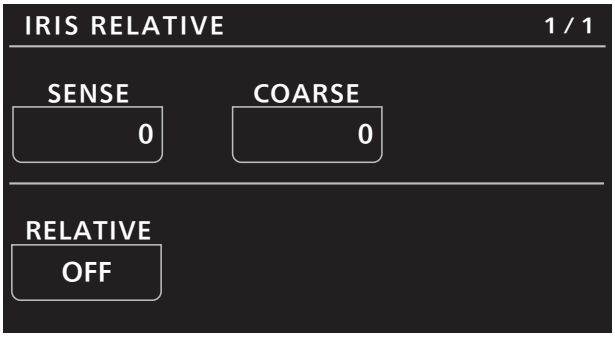
19 LENS CONTROL





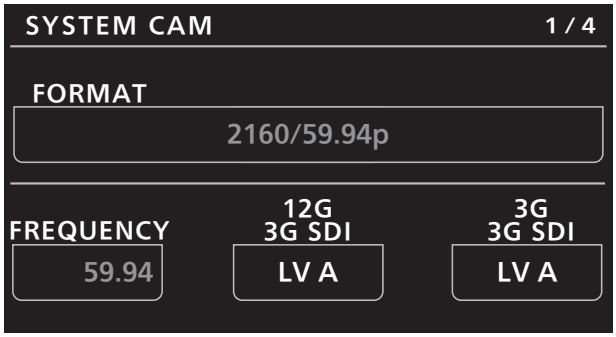
Item	Setting details
FOCUS MODE	Selects auto or manual mode for the focus adjustment function.
FOCUS SPEED	Adjusts the focus operation speed.
FOCUS	Adjusts the lens focus manually.
ZOOM WIDE	Adjusts the lens zoom to wide angle (Wide).
ZOOM SPEED	Adjusts the zoom operation speed.
ZOOM TELE	Adjusts the lens zoom to telephoto (Tele).
DIGITAL ZOOM SW	Sets the digital zoom function to ON/OFF.
DIGITAL ZOOM MAX	Sets the maximum digital zoom magnification.
DIGITAL ZOOM D.EXT	Sets the digital extender function to “OFF”, “x1.4”, or “x2”.

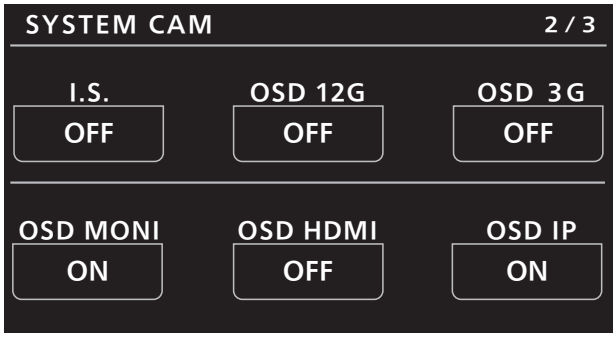
20 IRIS RELATIVE

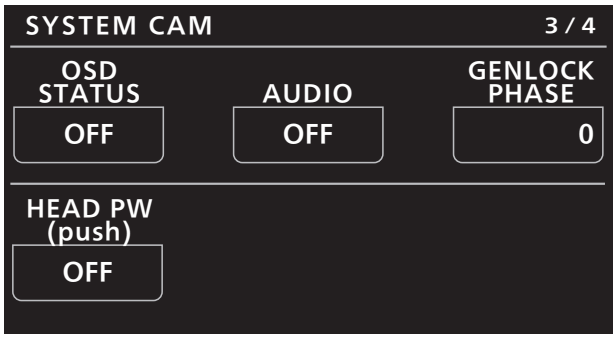


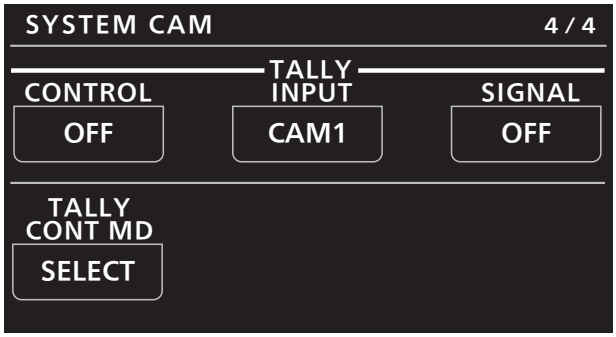
Item	Setting details
SENSE	Adjusts the iris variable range for when the iris lever is moved from the center to the top and bottom ends.
COARSE	Use this dial to adjust the iris value when the IRIS lever is moved to the center.
RELATIVE	When this is set to “ON”, the iris lever's variable range is not dependent on the [SENSE] and [COARSE] settings and will include the entire range between OPEN and CLOSE.

21 SYSTEM CAM





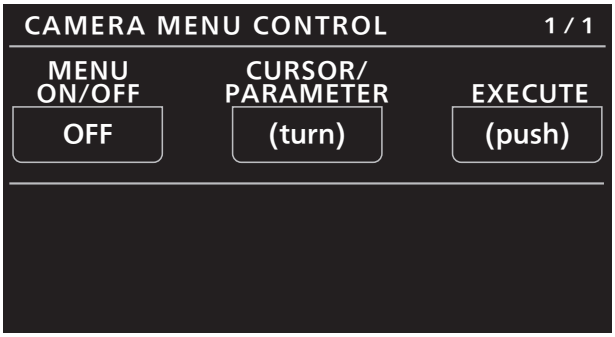




Item	Setting details
FORMAT	Displays the system format.
FREQUENCY	Indicates the frame frequency.
12G 3G SDI	Selects the format to output 3G SDI signals when the video format of 12G SDI/OPTICAL is “1080/59.94p” or “1080/50p”.
3G 3G SDI	Selects the format to output 3G SDI signals when the video format of 3G SDI is “1080/59.94p” or “1080/50p”.
I.S.	Sets the image stabilization to ON/OFF.
OSD 12G	Selects ON/OFF for the display of the camera menu, status, and other information that is output from the <12G SDI OUT> connectors.
OSD 3G	Selects ON/OFF for the display of the camera menu, status, and other information that is output from the <3G SDI OUT> connectors.
OSD MONI	Selects ON/OFF for the display of the camera menu, status, and other information that is output from the <MONITOR OUT> connectors.

Item	Setting details
OSD HDMI	Selects ON/OFF for the display of the camera menu, status, and other information that is output from the <HDMI> connector.
OSD IP	Selects ON/OFF for the display of the camera menu, status, and other information that is output from the <LAN LINK/ACT> connector.
OSD STATUS	Sets ON/OFF for status display and error display during AWB and ABB execution.
AUDIO	Sets the audio input to ON/OFF.
GENLOCK PHASE	This is used to adjust the horizontal phase during genlock.
HEAD PW(push)	Use this button to control camera power remotely.
TALLY CONTROL	Sets whether or not to notify the camera when there is a tally input from the <PREVIEW> connector. When this is set to “ON”, notification is sent if there is a tally input when the camera set in [TALLY INPUT] is selected. ● This is enabled when other than “Serial”, “LAN”, “Serial(AK)”, and “LAN(AK)” is set in [CONNECT SETTING].
TALLY INPUT	Sets the camera to be notified of a tally input when [TALLY CONTROL] is set to “ON”. ● This is enabled when other than “Serial”, “LAN”, “Serial(AK)”, and “LAN(AK)” is set in [CONNECT SETTING].
TALLY SIGNAL	Displays the tally input status of the <PREVIEW> connector. “ON” is displayed when there is tally input, and “OFF” is displayed when there is no tally input.
TALLY CONT MD	Sets the method for sending tally notifications to the camera. **SELECT** Sends tally notifications to the camera in accordance with the [TALLY CONTROL] and [TALLY INPUT] settings. **DIRECT** Sends tally notifications to the camera currently connected with the unit. ● If the unit is connected to another camera when there is tally input from the <PREVIEW> connector and [TALLY CONTROL] is “ON”, be careful because [TALLY CONTROL] will not be set to “OFF” for the camera before the connection is switched. Furthermore, [TALLY CONTROL] will be set to “ON” for the newly connected camera in this case.

22 CAMERA MENU CONTROL



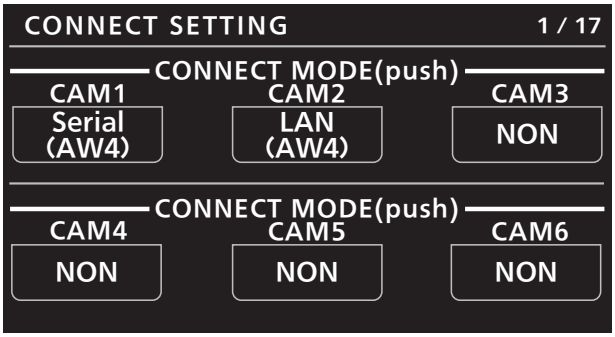
Item	Setting details
MENU ON/OFF	Turns the menu ON/OFF.
CURSOR/PARAMETER	Moves the menu cursor or changes setting values.
EXECUTE	Executes the selected process.

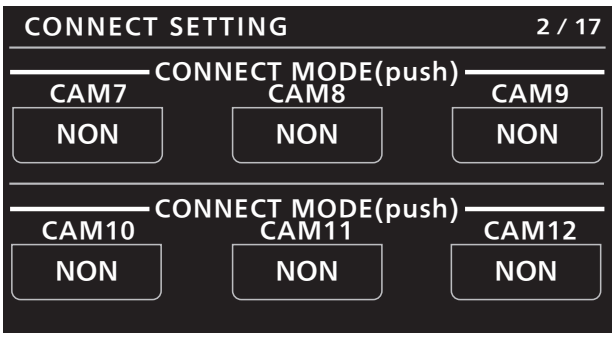
23 ROP SETTING

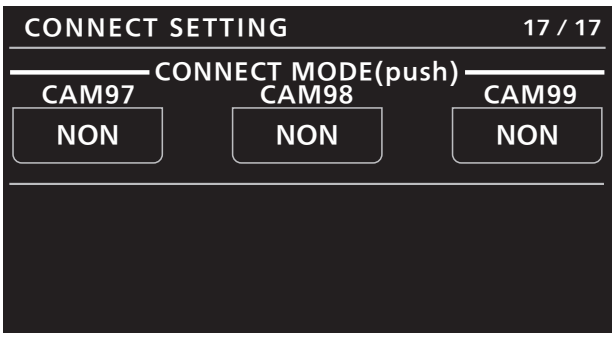
For details on operations and settings, refer to the following sections in the Operating Instructions.

➡ “37 ROP SETTING”

24 CONNECT SETTING







Item	Setting details
CONNECT MODE(push) CAM1	Sets the connection method for camera 1. Changes to settings are applied by pressing the menu operation dial. Select “LAN(AW4)” and “Serial(AW4)” when connecting with the AW-UE150. • “Serial(AW4)” cannot be set for multiple cameras.
CONNECT MODE(push) CAM2 to CAM99	Sets the connection method for cameras 2 to 99. Changes to settings are applied by pressing the menu operation dial. Select “LAN(AW4)” and “Serial(AW4)” when connecting with the AW-UE150. • “Serial(AW4)” cannot be set for multiple cameras.

25 ROP IP SETTING

For details on operations and settings, refer to the following sections in the Operating Instructions.

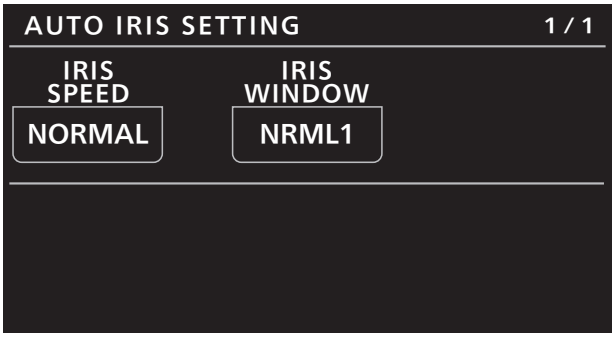
➡ “39 ROP IP SETTING”

26 CAMERA IP SETTING

For details on operations and settings, refer to the following sections in the Operating Instructions.

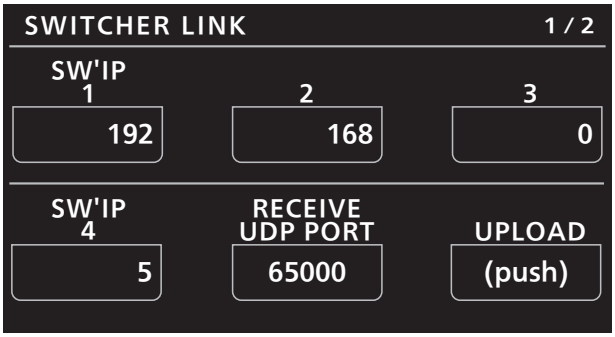
➡ “40 CAMERA IP SETTING”

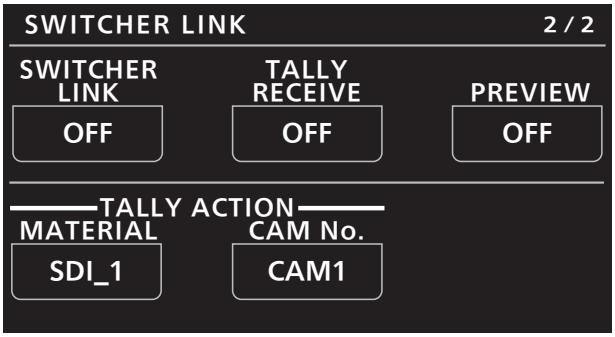
27 AUTO IRIS SETTING



Item	Setting details
IRIS SPEED	Sets the control speed of the auto iris function.
IRIS WINDOW	Selects the auto iris detection window.

28 SWITCHER LINK





Item	Setting details
SW'IP	Sets the IP address of the switcher.
RECEIVE UDP PORT	Sets the port number of the unit that will receive communications from the switcher.
UPLOAD	When you press the menu operation dial, the configured IP address and port number will be applied to the unit.
SWITCHER LINK	Enables the link with the switcher when set to “ON”.
TALLY RECEIVE	Enables reception of tally notifications when set to “ON”.
PREVIEW	Sends notification of [PREVIEW] button operations to the switcher when set to “ON”.
TALLY ACTION MATERIAL	Selects the material.
TALLY ACTION CAM No.	Sets the camera number to which the tally notification will be sent for notifications of the material information configured in [TALLY ACTION MATERIAL]. • Be aware that if multiple instances of [TALLY ACTION MATERIAL] are assigned to the same camera number, the tally indication will blink due to the existence of lit and unlit material. • Tally control will be performed for the camera that is connected to the unit at that moment. Tally control will not be performed for cameras that are not connected.

29 AW CONTROLLER LINK

For details on operations and settings, refer to the following section in the Operating Instructions.

➡ “47 AW CONTROLLER LINK”