SONY

4-745-630-**15** (1)

Color Camera
4K Color Camera

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

HDC5500
HDC5500V
HDC3500
HDC3500V

Table of Contents

Overview

The HDC5500/5500V/3500/3500V is a color camera equipped with a newly developed 2/3 inch 4K CMOS sensor with global shutter for F10 (4K/59.94P)/F11 (4K/50P) high sensitivity and high signal-to-noise ratio.
Operation as a studio camera is supported when connected with Camera Control Unit (CCU) [a] using fiber cables. Connection with CCUs and wireless transmission are also supported by replacing the transmission adaptor side panel of the unit with the following optional transmission adaptors.

HKC-FB50 UHB Fiber Transmission Adaptor [b] [c]
Connects an HDCU5000/5500 Camera Control Unit to the unit to support UHB optical transmission.

HKC-TR37 Triax Transmission Adaptor [c]
Connects an HDCU3170 Camera Control Unit to the unit to support triax transmission.

HKC-WL50 Wireless Transmission Adaptor [b] [c]
Connects to the unit to support wireless transmission of video signals and control signals.

HKC-FB30 Fiber Transmission Adaptor [c]
Connects an HDCU3500/3100 or HDCU2000-series Camera Control Unit to the unit to support optical transmission.

HKC-VND50 Variable ND Filter Unit
Equipped with an optical variable ND filter to enable variable adjustment of the brightness without changing the image quality.

a) For details about camera control units that can be connected, see the system configuration diagrams *(page 6)*.

b) Use camera software version 2.00 or later.

c) The HKC-CN50 Side Panel Attachment Kit (option) is required in order to use the transmission adaptor.

Notes

- Before starting system operation, check that the software version and ROM version of the unit and system devices meet the version requirements.
- For details about changing the transmission adaptor side panel, contact a Sony service or sales representative.

Supported Formats

The HDC3500/3500V supports 1920×1080/59.94i, 50i and 1280×720/59.94P, 50P as standard. The HDC5500/5500V, in addition, also supports 1920×1080/59.94P, 50P and HDR formats as standard.
(When HKC-TR37 is installed in the HDC3500/3500V, 1920×1080/59.94P, 50P and HDR formats are supported as standard.)
You can extend the formats that are supported by installing the following camera operating software (option).

For details, contact a Sony service or sales representative.

	Camera operating software						
Extended formats	**HZC-DFR50**	**HZC-QFR50**	**HZC-HFR50**	**HZC-PRV50**	**HZC-PSF50**	**HZC-UG50**	**HZC-UHD50** [*1] [*2]
1920×1080/59.94P [*3]		○	○	○			○
1920×1080/50P		○	○	○			○
1920×1080/59.94i(2×)	○	○	○				
1920×1080/50i(2×)	○	○	○				
1920×1080/59.94P(2×)	○ [*4]	○	○ [*4]				
1920×1080/59.94P(3×), (4×)		○	○ [*4]				
1920×1080/59.94P(6×), (8×)			○ [*5]				
1920×1080/50P(2×)	○ [*4]	○	○ [*4]				
1920×1080/50P(3×), (4×)		○	○ [*4]				
1920×1080/50P(6×), (8×)			○ [*5]				
1920×1080/24PsF					○ [*6]		
1920×1080/23.98PsF					○ [*6]		
1920×1080/25PsF					○		
1920×1080/29.97PsF					○		

	Camera operating software						
Extended formats	**HZC-DFR50**	**HZC-QFR50**	**HZC-HFR50**	**HZC-PRV50**	**HZC-PSF50**	**HZC-UG50**	**HZC-UHD50** *1 *2
1280×720/59.94P(2×)	○	○	○				
1280×720/50P(2×)	○	○	○				
3840×2160/59.94P *3				○ *7			○ *4
3840×2160/50P				○ *7			○ *4
3840×2160/59.94P(2×)			○				○
3840×2160/50P(2×)			○				○
3840×2160/59.94P(3×) *8			○				○
3840×2160/50P(3×) *8			○				○
3840×2160/59.94P(4×) *8			○				○
3840×2160/50P(4×) *8			○				○
3840×2160/24P							○
3840×2160/23.98P							○
3840×2160/25P							○
HD(RGB444)						○	

○: Required camera operating software

*1 On HDC5500 models for Japan and Mainland China, HZC-UHD50 is pre-installed.

*2 On HDC5500V, HZC-UHD50 is pre-installed.

*3 60P is also supported when OUTPUT FORMAT >60.00Hz is set to ENABLE.

*4 HKC-FB50 or HKC-WL50 is required.

*5 HKC-FB50 is required.

*6 Use on triax model is not supported.

*7 For the HDC3500/3500V, attachment of optional items to the camera control unit is required. For details, contact a Sony sales representative.

*8 Enabled when connected to HDCU5000 with HKCU-UHF50 installed.

- Limited subscription licenses are available for each software, with the period of validity of the license indicated by the last character of the name.
  If a character that does not denote a license period of validity is the last character, the license will not expire (indefinite).
  - M: Valid for 30 days
  - W: Valid for 7 days
  - P: Portable license valid for 365 days*
  - * Portable licenses are available for HZC-HFR50/UHD50.

Notes on camera operating software use

The following limitations apply according to the camera operating software and side panel attachment.

Camera operating software	Limitations
HZC-UG50 (4:4:4 output)	• When HKC-WL50 or HKC-TR37 is installed in the HDC5500/5500V/3500/3500V, 4:4:4 output is not supported.
HZC-PRV50 (Progressive output)	• When HZC-HFR50 or HZC-UHD50 is installed in the HDC5500/5500V/3500/3500V, this option is not required. • When HKC-FB50 or HKC-TR37 is installed in the HDC5500/5500V/3500/3500V, this option is not required. • When HKC-FB50 or HKC-WL50 is installed in the HDC5500/5500V/3500/3500V, 1080P (HDR) output is not supported.
HZC-PSF50 (PsF output)	• When HKC-TR37 is installed in the HDC5500/5500V/3500/3500V, 24PsF and 23.98PsF output are not supported.
HZC-DFR50 (×2 speed output)	• When HZC-HFR50 is installed in the HDC5500/5500V/3500/3500V, this option is not required. • When HKC-FB50 is installed in the HDC5500/5500V/3500/3500V, ×2 speed interlaced output is not supported. • When HKC-WL50 or HKC-TR37 is installed in the HDC5500/5500V/3500/3500V, ×2 speed output is not supported. • On the HDC3500/3500V as shipped or when HKC-FB30 is installed in the HDC5500/5500V/3500/3500V, only ×2 speed interlaced output is supported.

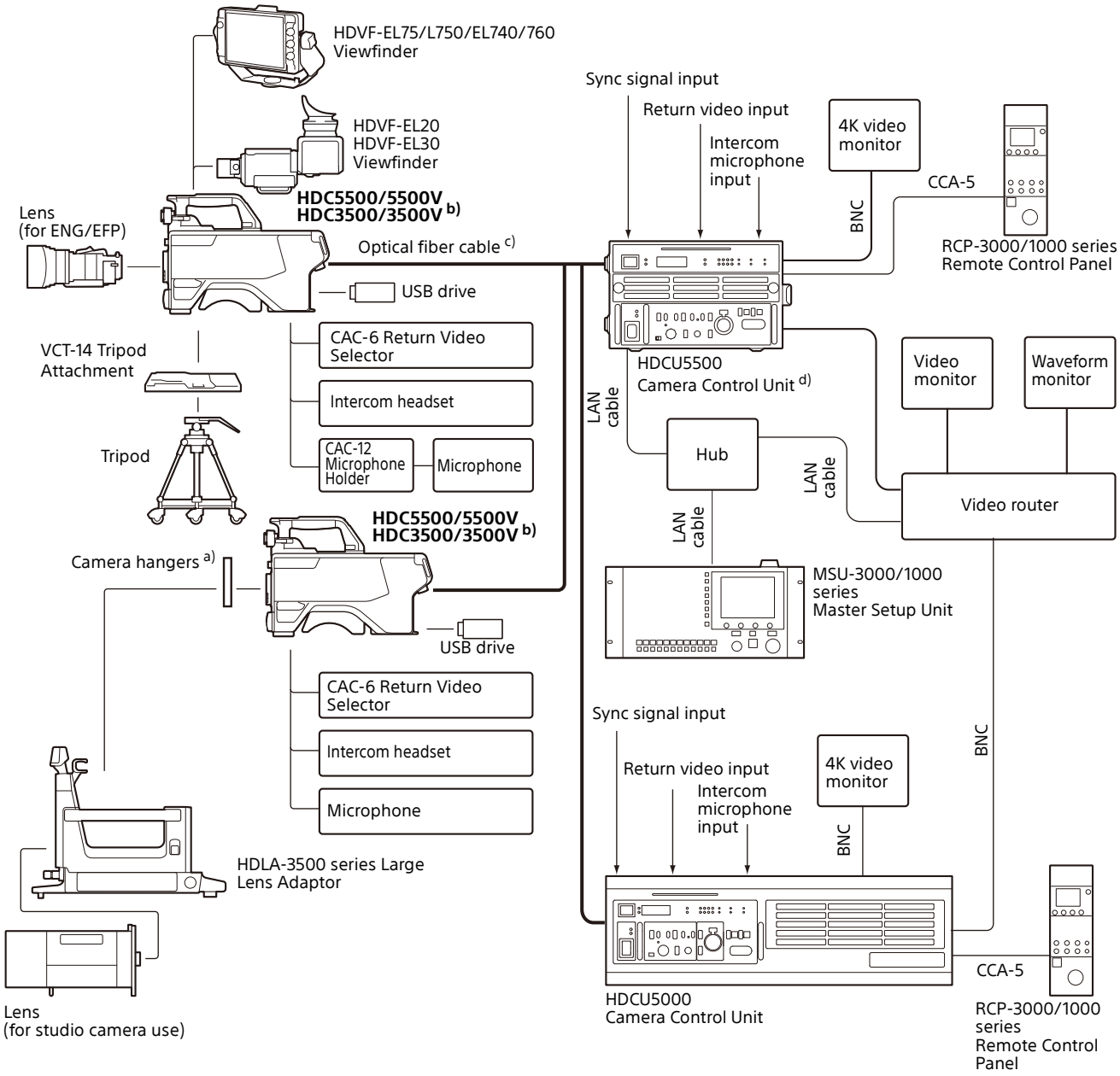
Camera operating software	Limitations
HZC-HFR50 (×2/3/4/6/8 speed output)	• On the HDC3500/3500V as shipped or when HKC-FB30 is installed in the HDC5500/5500V/3500/3500V, only ×2 speed interlaced output is supported. • When HKC-TR37 is installed in the HDC5500/5500V/3500/3500V, ×2 speed and higher output is not supported.
HZC-UHD50 (4K output)	• When HKC-FB50 is installed in the HDC5500/5500V/3500/3500V, 4K output is supported. • When HKC-WL50 is installed in the HDC5500/5500V/3500/3500V, 4K 24P, 23.98P, 25P, and 29.97P output are not supported. • When HKC-TR37 is installed in the HDC5500/5500V/3500/3500V, 4K output is not supported.

System Configuration

Note

Production of some of the peripherals and related devices shown in the figures may have been discontinued.
For advice on choosing devices, please contact your Sony dealer or a Sony sales representative.

Connection example (4K optical fiber transmission)



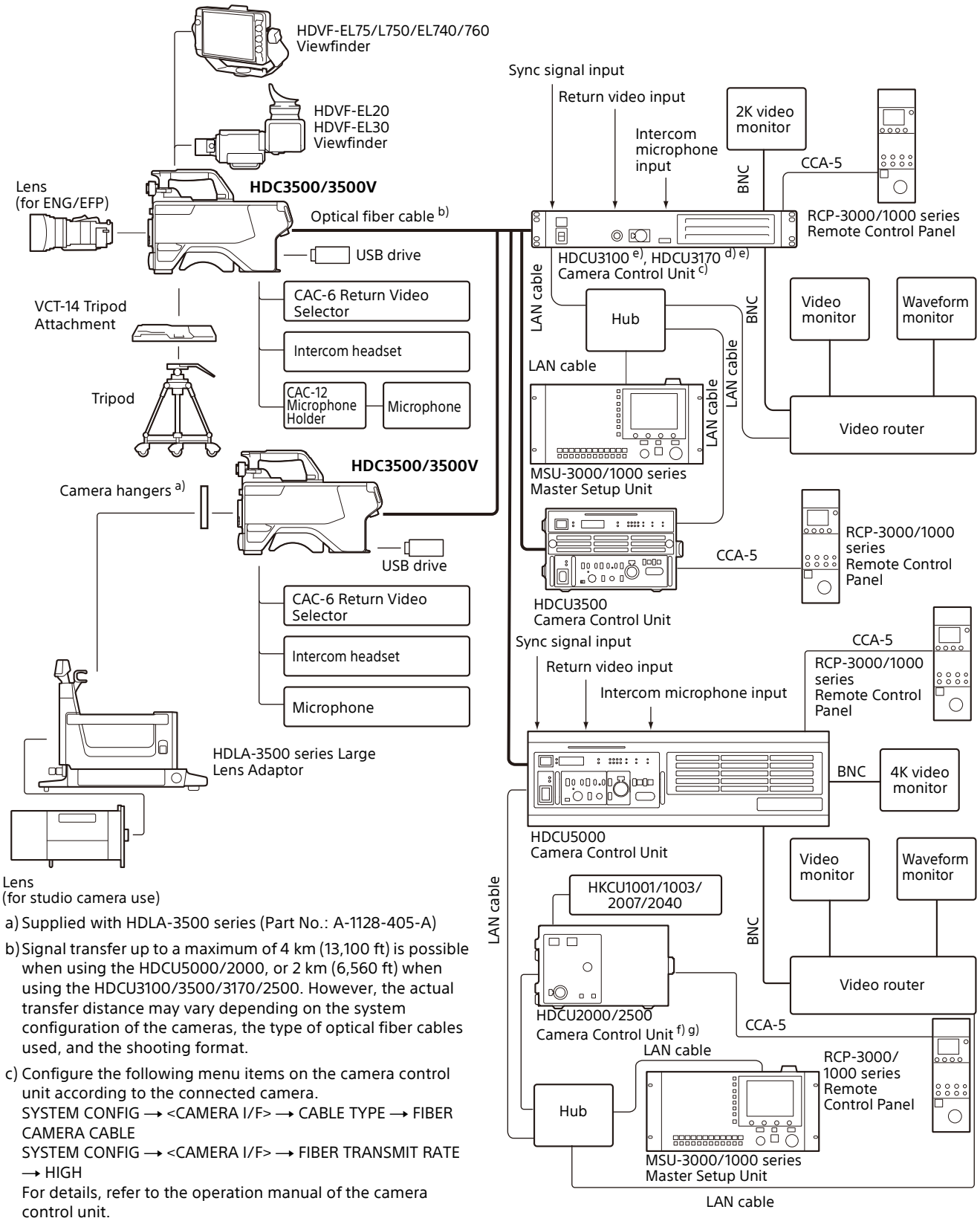
a) Supplied with HDLA-3500 series (Part No.: A-1128-405-A)

b) On the HDC3500/3500V, installation of the HKC-FB50 UHB Fiber Transmission Adaptor and HKC-CN50 Side Panel Attachment Kit is required.

c) Signal transfer up to a maximum of 4 km (13,100 ft) is possible with the HDCU5000/5500. However, the actual transfer distance may vary depending on the system configuration of the cameras, the type of optical fiber cables used, the image format, and the options configured in the CCU.

d) Configure the following menu items on the camera control unit according to the connected camera.
SYSTEM CONFIG ⟶ <CAMERA I/F> ⟶ CABLE TYPE ⟶ FIBER CAMERA CABLE
SYSTEM CONFIG ⟶ <CAMERA I/F> ⟶ FIBER TRANSMIT RATE ⟶ ULTRA
For details, refer to the operation manual of the camera control unit.

Connection example (HD optical fiber transmission)



a) Supplied with HDLA-3500 series (Part No.: A-1128-405-A)

b) Signal transfer up to a maximum of 4 km (13,100 ft) is possible when using the HDCU5000/2000, or 2 km (6,560 ft) when using the HDCU3100/3500/3170/2500. However, the actual transfer distance may vary depending on the system configuration of the cameras, the type of optical fiber cables used, and the shooting format.

c) Configure the following menu items on the camera control unit according to the connected camera.
SYSTEM CONFIG → <CAMERA I/F> → CABLE TYPE → FIBER CAMERA CABLE
SYSTEM CONFIG → <CAMERA I/F> → FIBER TRANSMIT RATE → HIGH
For details, refer to the operation manual of the camera control unit.

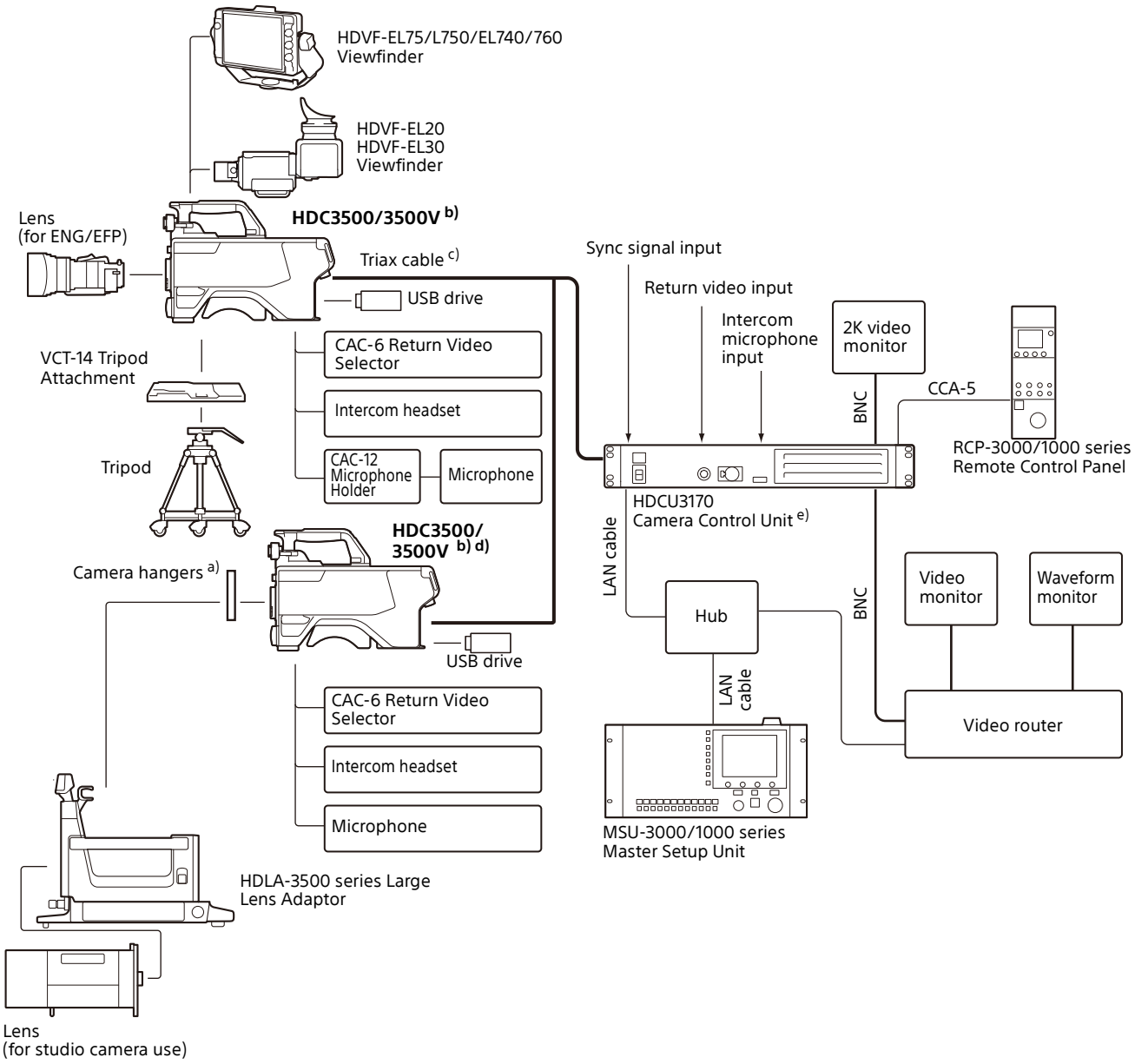
d) To use the HDCU3170, install the HKCU-FB30 Optical Fiber Connector Kit.

e) Use software version 2.00 or later.

f) Use software version 3.30 or later.

g) The diagram shows the HDCU2500.

Connection example (digital triax transmission)



a) Supplied with HDLA-3500 series (Part No.: A-1128-405-A)

b) Install the HKC-TR37 Triax Transmission Adaptor and HKC-CN50 Side Panel Attachment Kit.

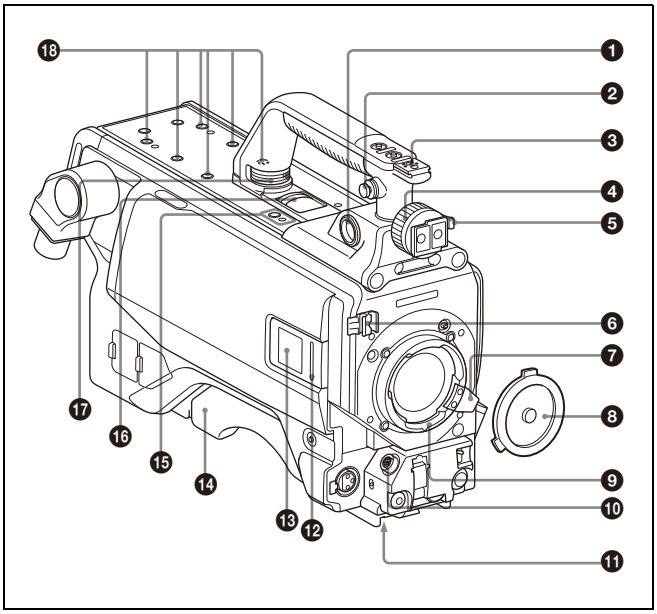
c) Signal transfer up to a maximum of 1.8 km (5,910 ft) is possible. However, the actual transfer distance may vary depending on the system configuration of the cameras, the type of optical fiber cables used, and the shooting format.
For details, see *page 123*.

d) When using the HDLA-3500 series, external DC power supply is not available.

e) Configure the following menu item on the camera control unit.
SYSTEM CONFIG → <CAMERA I/F> → CABLE TYPE → TRIAX CABLE
For details, refer to the operation manual of the camera control unit.

Locations and Functions of Parts

Accessory Attachments



❶ VF (viewfinder) connector (20-pin)
Connect the cable of the viewfinder (not supplied).

❷ Shoulder strap fitting post
Attach one end of a shoulder strap (not supplied) to this fitting post, and the other end to the fitting post on the other side of the camera.

❸ Accessory shoe
Attach an accessory using a 1/4-inch screw.

❹ Viewfinder left-right positioning ring
Locks the left-right position of the viewfinder.
Loosen this ring to adjust the viewfinder position.

❺ Viewfinder front-rear positioning lever
Unlock the front-rear positioning lever to adjust the viewfinder position towards the front or rear, then lock in the desired position.

For details about adjusting the viewfinder position, see "Attaching an Eyepiece Viewfinder" (page 18).

❻ Lens cable clamp
Secures the cable of the lens (not supplied).

❼ Lens fixing lever
Secures the lens in the lens mount.

❽ Lens mount cap
Always keep the lens mount covered with this cap when a lens is not attached. The cover can be removed by moving the lens fixing lever upwards.

❾ Lens mount
Attach a lens.

❿ LENS connector (12-pin)
Connect the lens cable. The camera can control the lens functions through this cable.

⓫ Tripod mount
Attach the VCT-14 Tripod Attachment when mounting the camera on a tripod.

⓬ LED lamp
Use as a tally. You can switch the function using the menu.

⓭ Camera number
The unit uses electronic paper (e-ink) type camera numbers. You can set the camera number using the menu.

Note

The operating temperature range of the camera number setting is 0 °C to 45 °C (32 °F to 113 °F). The setting may not be configurable if the temperature range is exceeded. Check the temperature when configuring.

⓮ Shoulder pad
You can adjust the position toward the front or rear.

For details, see "Adjusting the Shoulder Pad Position" (page 25).

⓯ Microphone holder attachment
Use to attach a CAC-12 Microphone Holder.

For details, refer to the microphone holder operation manual.

⓰ Handle rotation release lever
Push the lever toward the rear with the handle rotation lock knob in the loosened state to enable rotation of the handle.

⓱ Handle rotation lock knob
Turn counterclockwise until loosened to unlock the handle. Rotate the handle to reduce the interference with the viewfinder and to enable wide angle adjustment of the tilt and pan of the viewfinder.

⓲ V-wedge shoe attachment points
Attach a V-wedge shoe here to mount an HDVF-EL75/L750/L770 Viewfinder.
On the HDC5500V/3500V, you can move the viewfinder forward/rearward by mounting the supplied viewfinder slide unit. For details, see *"Attaching an Electronic Viewfinder using the Viewfinder Slide Unit" (page 20)*.

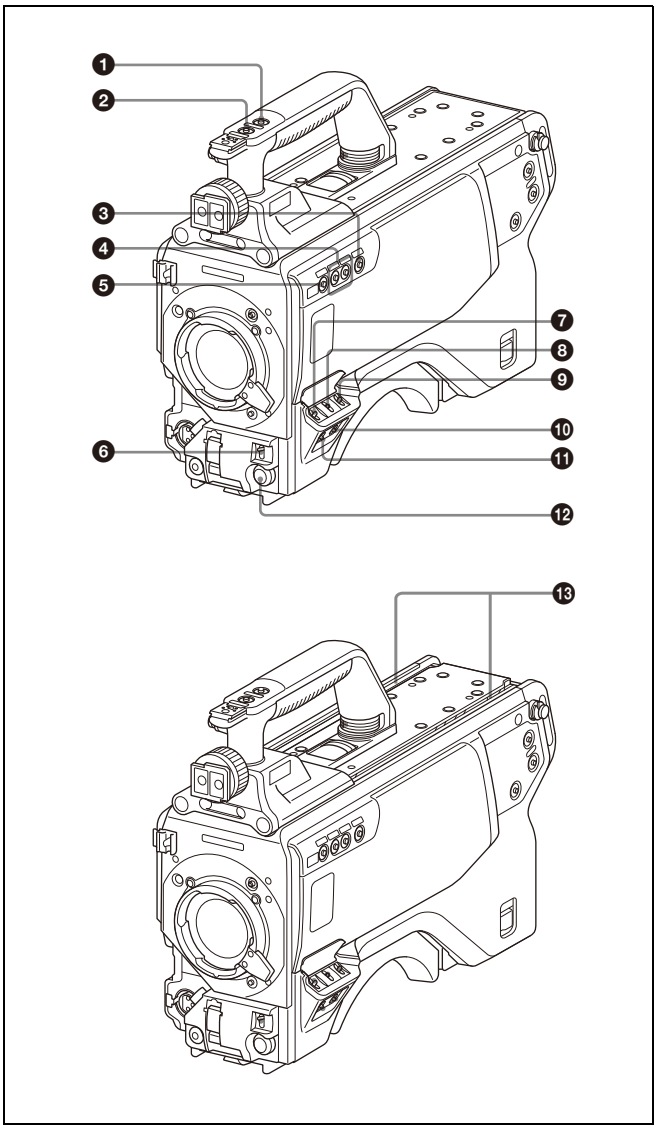
Note

Select either the front or rear V-wedge shoe attachment points to attach the V-wedge shoe. If the front position is used, it may restrict the tilt/pan angle available for the viewfinder.

For details about attachment, refer to the operation manual of the viewfinder.

Controls and Connectors

Front right



❶ INCOM1 (intercom 1) button
On the HDC5500/3500 (UCJ model), the intercom 1 microphone is turned ON while this button is held pressed. On the HDC5500/3500 (CE model) and HDC5500V/3500V, the intercom 1 and intercom 2 engineer line microphone is turned ON while this button is held pressed. For the HDC5500V/3500V, you can set the intercom for which to turn the microphone ON using INTERCOM ASSIGN *(page 70)* in the OPERATION menu.
You can also assign other functions to this button, using the menu displayed on the viewfinder screen.

❷ RET 1 (return video 1) button
The return video 1 signal from the camera control unit is monitored on the viewfinder screen while this button is pressed. It functions the same as the RET 1 button on the side *(page 11)* and RET/ASSIGNABLE button A (*page 13* or *14*) on the operation panel on the rear of the camera.
You can also assign other functions to this button, using the menu displayed on the viewfinder screen.

❸ Assignable switch
You can assign a function using the menu displayed on the viewfinder screen.
You can also display the assigned function name by attaching the corresponding label (supplied) for the assigned function.

❹ Filter select buttons
You can switch the built-in ND and CC (color temperature conversion) filters by pressing the select buttons while holding the FILTER LOCAL button depressed.
Pressing the left button switches the available ND filters in sequence.
Pressing the right button switches the available CC filters in sequence.
You can change the sequence and settings from the menu.

❺ FILTER LOCAL button
Press and hold this button and press either of the filter select buttons to select the built-in optical filter.

❻ AUTO W/B BAL (white and black balance automatic adjustment) switch
Automatically adjusts white and black balance when the camera is used in standalone operation without connecting to the camera control unit.
WHT: Automatically adjust white balance.
BLK: Automatically adjust black balance.

❼ GAIN switch
Selects the master gain of the video amplifier based on lighting conditions when the camera is used in standalone operation without connecting a camera control unit.
When shipped from the factory, the values set are L = 0 dB, M = 6 dB, and H = 12 dB.

❽ OUTPUT (output signal selection)/AUTO KNEE switch
Selects the signal (color bar signal or camera's video signal) to be used as output to the viewfinder or a video monitor when the camera is used in standalone operation without connecting a camera control unit.
When the camera's video signal is being used as output, the auto knee function may be used.
The relationship between the switch setting and the output signal and auto knee function is shown in the table below.

OUTPUT	AUTO KNEE	Function
BARS	OFF	Output is a color bar signal.
CAM	OFF	Output is the camera's video signal. The auto knee circuit is disabled.
CAM	ON	Output is the camera's video signal. The auto knee circuit is enabled.

❾ WHITE BAL (white balance memory selection) switch
Selects the white balance adjustment method or the memory used to store the adjusted value when the camera is used in standalone operation without connecting a camera control unit.
PRST (preset memory): White balance is adjusted to a preset value corresponding to a color temperature of 3200K.
A or B: Selects memory A or B.

❿ DISPLAY switch
The functions are as follows:
DISPLAY: Characters and messages showing the camera settings and operating status may be displayed on the viewfinder screen.
OFF: Status messages will not appear on the viewfinder screen.

MENU: Menus for camera settings will be displayed on the viewfinder screen.

⓫ STATUS/CANCEL switch

STATUS: When no menu is displayed on the viewfinder screen, the status information of this camera is displayed.

CANCEL: When a menu is displayed on the viewfinder screen, you can cancel any changed settings or return the display to the previous menu.

⓬ MENU SEL (menu select) knob/ENTER button (rotary encoder)

Selects settings from menus displayed on the viewfinder screen (by rotating the knob) and confirms settings (by pushing the button).

You can change the ECS frequency when in standalone operation with the shutter mode set to ECS by pushing the ENTER button when no menu is displayed. In all other cases, the VF DETAIL function can be adjusted.

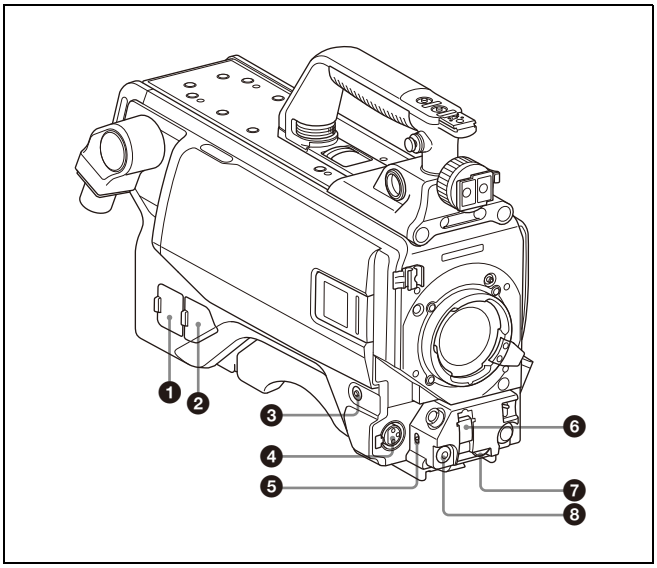
Note

When a camera control unit or a remote control device, such as an MSU or RCP, is connected, the functions of ❻ to ❾ are controlled from the external control device and the controls on the camera are disabled.

⓭ Slide rails (HDC5500V/3500V)

Grooves in which to insert V-wedge shoe attachment.

Front left



❶ NETWORK TRUNK connector (RJ-45 8-pin)

Connects a device connected to the CCU's NETWORK TRUNK connector to the network.

❷ DC power supply out connector (2-pin)

Supplies power to an external device up to 2.5 A.

❸ RET 1 (return video 1) button

The return video 1 signal from the camera control unit is monitored on the viewfinder screen while this button is pressed. It functions the same as the RET 1 button on the Handle *(page 10)* and RET/ASSIGNABLE button A (*page 13* or *14*) on the operation panel on the rear of the camera.

You can also assign other functions to this button, using the menu displayed on the viewfinder screen.

❹ MIC 1 IN (microphone input) connector (XLR 3-pin)

Connect a microphone.

This connector and the AUDIO IN CH-1 connector *(page 15)* on the operation panel on the rear of the camera are alternately activated with the CH1 audio input select switch *(page 15)*.

❺ MIC (microphone) power switch

+48V: Supply power at +48 V to the microphone connected to the MIC 1 IN connector.

OFF: Do not supply power to the microphone connected to the MIC 1 IN connector.

❻ SHUTTER switch

Turns the electronic shutter on/off and selects the shutter speed when the camera is used in standalone operation without connecting a camera control unit.

OFF: The electronic shutter does not function.

ON: The electronic shutter is activated.

SEL: The shutter speed and shutter mode change each time the switch is set to this position.

For details, see "Setting the Electronic Shutter" (page 28).

❼ INTERCOM LEVEL control

Adjusts the intercom/earphone volume level.

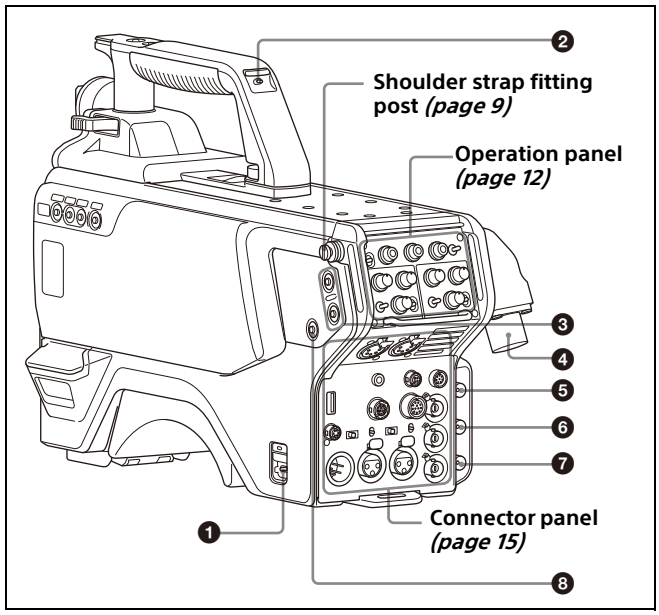
The intercom level adjustment is enabled when the INTERCOM 1 and 2 LEVEL/MIC switches (on the UCJ-model operation panel *page 12*) are set to FRONT, the LEVEL switch (on the CE-model operation panel *page 13*) is set to FRT, or the FRONT VOL switch (on the HDC5500V/3500V operation panel *page 14*) is set to either INCOM1 or 1&2 on the rear of the camera.

❽ RET 2 (return video 2) button

When this button is pressed, the picture on the viewfinder screen changes to the return video signal selected using RET/ASSIGNABLE button A, B, or C on the operation panel on the rear of the camera or using the menu.

You can also assign other functions to this button, using the menu displayed on the viewfinder screen.

Rear



❶ CAMERA POWER switch

CCU: Power is supplied from the camera control unit.

EXT: Power is supplied through the DC IN connector.

❷ Tally lamp and switch

ON: The tally lamp lights when a tally signal is input to the connected camera control unit or a call signal is generated in response to pressing the CALL button.

OFF: The tally lamp is prevented from lighting.

❸ RET 1/2 (return video 1/2) buttons

When pressed, the picture on the viewfinder screen changes to the return video signal selected using the operation panel on the rear of the camera or using the menu.

You can also assign other functions to this button, using the menu displayed on the viewfinder screen.

❹ CCU (camera control unit) connector

Connect a camera control unit using an optoelectric composite cable.

❺ SDI 1 (serial digital interface 1) connector (BNC type)

HDC5500/5500V: For HD-SDI signal, 3G-SDI signal, 6G-SDI signal, 12G-SDI signal, and UHD PROMPTER signal output.

HDC3500/3500V: For 3G-SDI, HD-SDI or HD PROMPTER signal output.

For details about signal settings, see "Setting the Camera Outputs" (page 33).

❻ SDI 2 (serial digital interface 2) connector (BNC type)

HDC5500/5500V: For HD-SDI signal, 3G-SDI signal, 6G-SDI signal, and 12G-SDI signal output. Also for HD TRUNK signal and UHD TRUNK signal input.

HDC3500/3500V: For 3G-SDI or HD-SDI signal output, or HD TRUNK signal input.

During standalone operation, input the HD-SDI return signal.

When RET (return) is set to 1, this is displayed in the viewfinder.

❼ SDI 3 connector (BNC type) (HDC5500/5500V)

For HD PROMPTER signal output.

❼ PROMPTER2 connector (BNC type) (HDC3500/3500V)

For prompter 2 signal output. Available only when connecting a camera control unit with a prompter 2 input connector.

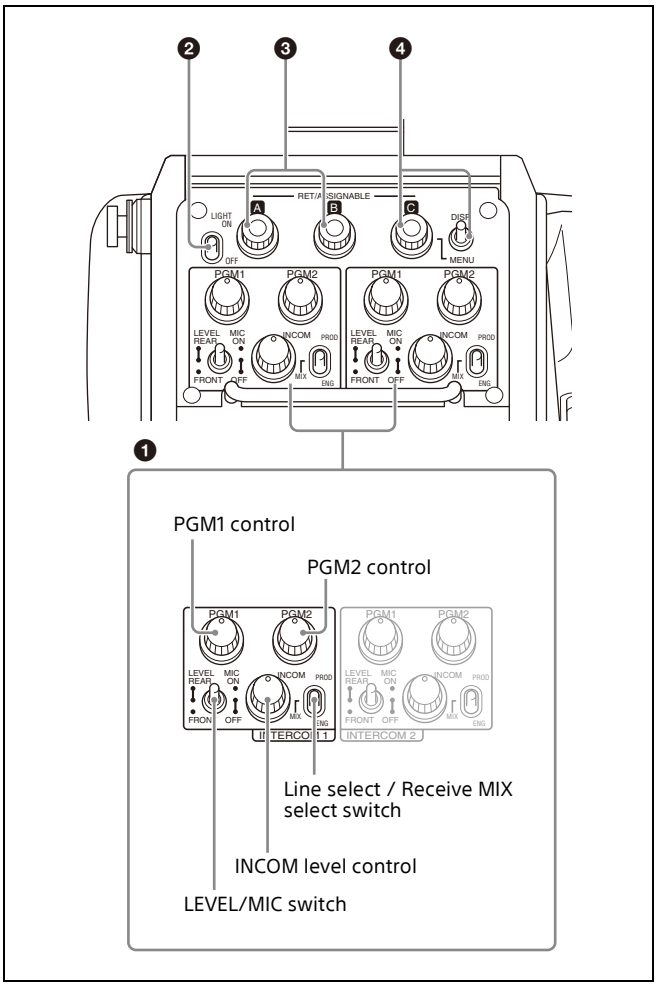
❽ CALL button

When this button is pressed, the red tally lamp of the RCP-3000/1000 series Remote Control Panel or the MSU-3000/1000 series Master Setup Unit will light. Use to call the operator of the RCP or MSU.

You can also assign other functions to this button, using the menu displayed on the viewfinder screen.

Operation panel (HDC5500/3500)

UCJ model: For USA, Canada, East Asia and other countries/regions



❶ INTERCOM 1 and INTERCOM 2 controls and switches

There are separate PGM1 and PGM2 controls, line select/ receive MIX select switch, LEVEL/MIC switch, and INCOM level control for both intercom line 1 and intercom line 2.

PGM1 (program 1) control

Adjusts the audio listening level of program 1, and program 3 (when PGM3 VOLUME LINK is set to PGM1).

PGM2 (program 2) control

Adjusts the audio listening level of program 2, and program 3 (when PGM3 VOLUME LINK is set to PGM2).

LEVEL/MIC switch

REAR/ON: Turn the intercom headset microphone on. The intercom audio listening level is adjusted with the INCOM level control.

REAR/OFF: Turn the intercom headset microphone off. The intercom audio listening level is adjusted with the INCOM level control.

FRONT/OFF: Turn the intercom headset microphone off. The intercom audio listening level is adjusted with the INCOM level control and the INTERCOM LEVEL control on the front of the camera *(page 11)*.

INCOM (intercom) level control

Adjusts the intercom audio listening level. The intercom MIX TALK (ENG or PROD), SIDE TONE, and TRACKER settings are reflected in the intercom audio.

Line select / Receive MIX select switch

Selects the intercom line.

PROD: Use the producer line.

ENG: Use the engineer line.

MIX: Receive mixed PROD/ENG audio. Select the intercom talk line from the menu.
The default intercom line setting is ENG.

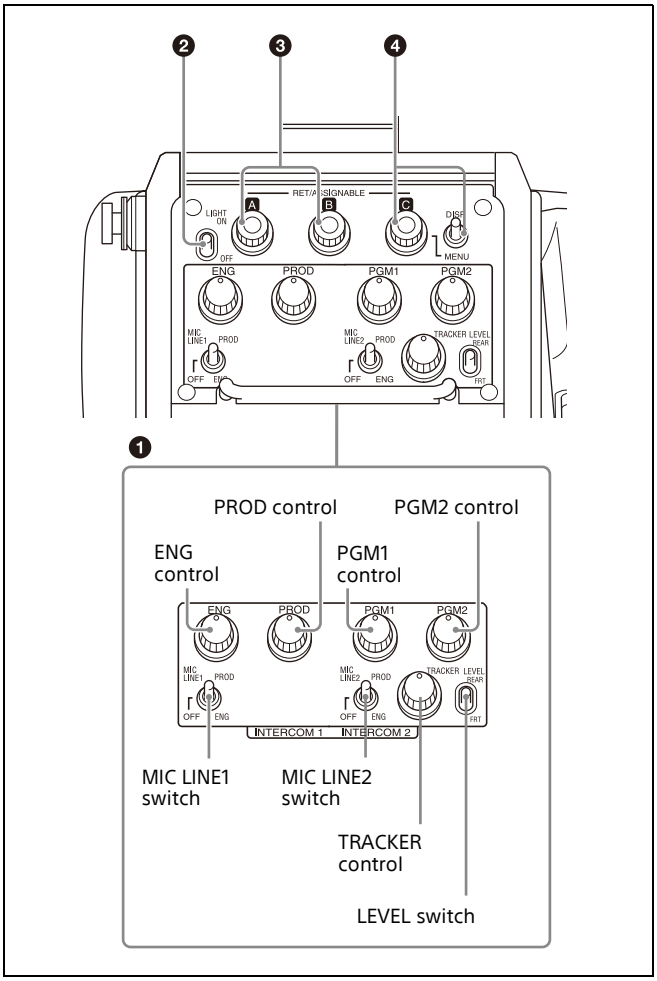
❷ LIGHT switch
Set to ON to illuminate the operation panel.

❸ RET/ASSIGNABLE button A, B
Press the button to switch the function assigned to the button on the <REAR FUNCTION ASSIGN> page on/off.
When the return function is assigned, press the button to display the return video signal on the viewfinder screen while the button is pressed.
Turn the button to change the assigned function setting.
When the return function is assigned, you can change the return signal channel.

❹ RET/ASSIGNABLE button C / DISP/MENU switch
Press the button to switch the function assigned to the button on the <REAR FUNCTION ASSIGN> page on/off.
When the return function is assigned, press the button to display the return video signal on the viewfinder screen while the button is pressed.
Turn the button to change the assigned function setting.
When the return function is assigned, you can change the return signal channel.
When the DISP/MENU switch is set to the MENU position to display the MENU screen, you can perform menu operations using RET/ASSIGNABLE button C.

Operation panel (HDC5500/3500)

CE model: For Europe and South Asia



❶ INTERCOM 1 and INTERCOM 2 controls and switches
The reception level controls are common to intercom 1 and intercom 2. The talk lines can be set independently for intercom 1 and intercom 2.

ENG (engineer line) control
Adjust the intercom audio listening level of the engineer line.

PROD (producer line) control
Adjust the intercom audio listening level of the producer line.

PGM1 (program 1) control
Adjust the audio listening level of program 1, and program 3 (when PGM3 VOLUME LINK is set to PGM1).

PGM2 (program 2) control
Adjust the audio listening level of program 2, and program 3 (when PGM3 VOLUME LINK is set to PGM2).

MIC LINE1 (intercom microphone line 1) switch
Select the talk line for intercom 1.
PROD: To talk over the producer line
OFF: To turn off the headset microphone for intercom line 1.
ENG: To talk over the engineer line

MIC LINE2 (intercom microphone line 2) switch
Select the talk line for intercom 2.
PROD: To talk over the producer line
OFF: To turn off the headset microphone for intercom line 2.
ENG: To talk over the engineer line

TRACKER control
Adjust the intercom audio listening level from the TRACKER connector (*page 15*) on the connector panel when using the connector for intercom.

LEVEL switch
REAR: The intercom audio listening level is adjusted with the controls on this panel.
FRT: The intercom audio listening level is adjusted with the INTERCOM LEVEL control on the front of the camera.

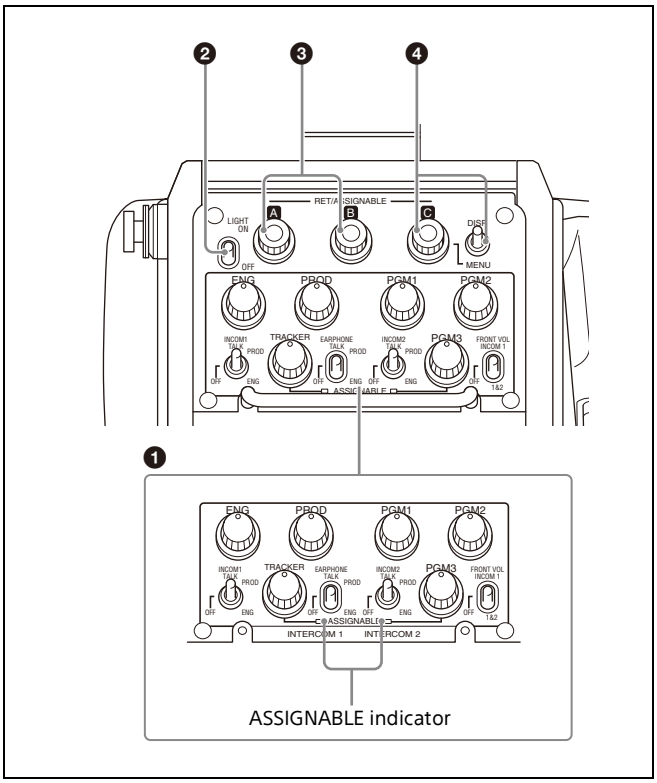
❷ LIGHT switch
Set to ON to illuminate the operation panel.

❸ RET/ASSIGNABLE button A, B
Press the button to switch the function assigned to the button on the <ROTARY ENCODER ASSIGN> page on/off.
When the return function is assigned, press the button to display the return video signal on the viewfinder screen while the button is pressed.
Turn the button to change the assigned function setting.
When the return function is assigned, you can change the return signal channel.

❹ RET/ASSIGNABLE button C / DISP/MENU switch
Press the button to switch the function assigned to the button on the <ROTARY ENCODER ASSIGN> page on/off.
When the return function is assigned, press the button to display the return video signal on the viewfinder screen while the button is pressed.
Turn the button to change the assigned function setting.
When the return function is assigned, you can change the return signal channel.

When the DISP/MENU switch is set to the MENU position to display the MENU screen, you can perform menu operations using RET/ASSIGNABLE button C.

Operation panel (HDC5500V/3500V)



❶ INTERCOM1 and INTERCOM2 controls and switches
An ENG control, PROD control, TRACKER control, PGM1 control, PGM2 control, PGM3 control, INCOM1 TALK switch, EARPHONE TALK switch, INCOM2 TALK switch, FRONT VOL switch, and ASSIGNABLE indicator are provided for intercom line 1 and intercom line 2.
The intercom line 2 volume can also be adjusted independently of the operation panel from the menu. You can adjust the volume setting in the menu. For details, see *"<INTERCOM2>" (page 68)*.

ENG (engineer line) control
Adjusts the intercom audio listening level of the engineer line.

PROD (producer line) control
Adjusts the intercom audio listening level of the producer line.

PGM1 (program 1) control
Adjusts the audio listening level of program 1.

PGM2 (program 2) control
Adjusts the audio listening level of program 2.

PGM3 (program 3) / ASSIGNABLE control
Adjusts the audio listening level of program 3.
Functions other than PGM3 adjustment can be assigned from the menu.

TRACKER / ASSIGNABLE control
Adjusts the intercom audio listening level of an intercom connected to the TRACKER connector *(page 15)*.
Functions other than TRACKER adjustment can be assigned from the menu.

ASSIGNABLE indicator
While the LIGHT switch is set to the ON position, the indicator lights up when a function is assigned to the TRACKER control or PGM3 control.

INCOM1 TALK (intercom 1 talk) switch
Turns the intercom 1 headset microphone on/off.
PROD: Microphone is ON for the producer line.
OFF: Microphone is OFF.
ENG: Microphone is ON for the engineer line.

INCOM2 TALK (intercom 2 talk) switch
Turns the intercom 2 headset microphone on/off.
PROD: Microphone is ON for the producer line.
OFF: Microphone is OFF.
ENG: Microphone is ON for the engineer line.

EARPHONE TALK switch
Turns the earphone headset microphone on/off.
PROD: Microphone is ON for the producer line.
OFF: Microphone is OFF.
ENG: Microphone is ON for the engineer line.

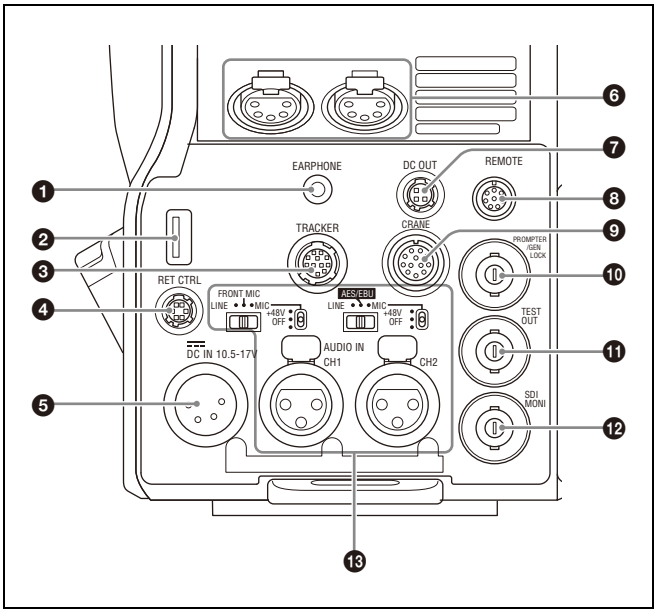
FRONT VOL (front volume knob) switch
INCOM 1: The intercom 1 audio listening level is adjusted with the adjustment knobs on the operation panel and the INTERCOM LEVEL control (intercom volume) *(page 11)* on the front of the camera.
1 & 2: 2 The intercom 1 and intercom 2 audio listening levels are adjusted with the adjustment knobs on the operation panel and the INTERCOM LEVEL control (intercom volume) *(page 11)* on the front of the camera.
OFF: Turns the front volume control off.

❷ LIGHT switch
Set to ON to illuminate the operation panel.

❸ RET/ASSIGNABLE button A, B
Press the button to switch the function assigned to the button on the <REAR FUNCTION ASSIGN> page on/off.
When the return function is assigned, press the button to display the return video signal on the viewfinder screen while the button is pressed.
Turn the button to change the assigned function setting.
When the return function is assigned, you can change the return signal channel.

❹ RET/ASSIGNABLE button C / DISP/MENU switch
Press the button to switch the function assigned to the button on the <REAR FUNCTION ASSIGN> page on/off.
When the return function is assigned, press the button to display the return video signal on the viewfinder screen while the button is pressed.
Turn the button to change the assigned function setting.
When the return function is assigned, you can change the return signal channel.
When the DISP/MENU switch is set to the MENU position to display the MENU screen, you can perform menu operations using RET/ASSIGNABLE button C.

Connector panel



❶ EARPHONE jack (4-pole mini jack)
Connect to a headset, or earphones with microphone (3-pole/4-pole earphones), to input/output the intercom audio signal.
For 4-pole earphones, the intercom line is linked to the OPERATION LINK setting on the <EARPHONE> page in the OPERATION menu.
Turn the microphone function on/off using HEADSET MIC *(page 67)* in the OPERATION menu. The default setting is OFF.

❷ USB connector (for connecting a USB drive)
Connect a USB drive to save or load the settings data file.

For details, see "Using a USB Drive" (page 124).

❸ TRACKER connector (12-pin)
For external interface, such as intercom and tally.

❹ RET CTRL (return control) connector (6-pin)
For connection to a CAC-6 Return Video Selector.

❺ DC IN (DC power supply input) connector (XLR 4-pin)
Used for connection to the AC-DN10A AC Adaptor to supply power to the camera.

❻ INTERCOM1 and 2 (intercom 1 and 2) connectors (XLR 5-pin)
Used for input and output of intercom audio signals if an XLR 5-pin headset is connected.
The INTERCOM 1 connector can be used for communication over the engineer line even when the power is off, as long as the power LED is lit in red.

❼ DC OUT (DC power supply output) connector (4-pin)
To supply power to devices such as a wireless receiver (optional) (max. 0.5 A).

❽ REMOTE connector (8-pin)
For connection to an RCP-3000/1000 series Remote Control Panel or MSU-1000/1500 Master Setup Unit.

Note

When the camera is connected to a camera control unit, do not connect any remote control device, such as RCP and MSU, to this connector.

❾ CRANE connector (12-pin)
For external interface, such as viewfinder and external data.

❿ PROMPTER/GENLOCK (prompter signal output/ external genlock signal input) connector (BNC type)
The PROMPTER OUT function is enabled when a camera control unit is connected. The GENLOCK IN function is enabled when a camera control unit is not connected.
GENLOCK IN: For input of an external genlock signal (VBS or tri-level sync) during standalone operation.
PROMPTER: For output of the prompter 1 signal (valid only when a camera control unit is connected). When a camera control unit having two prompter inputs is connected, the signal of input 1 is output from this connector.

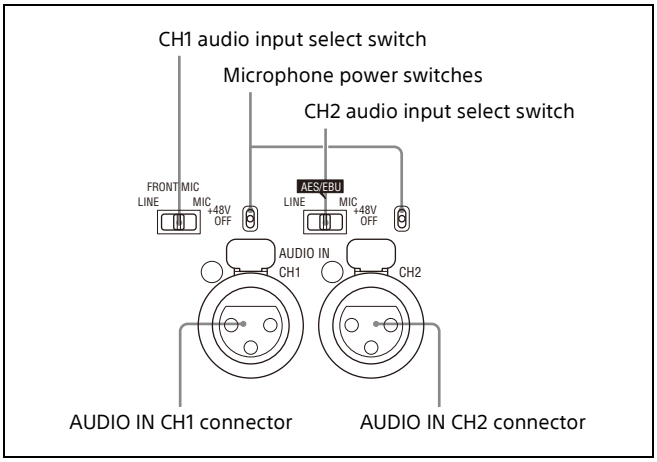
⓫ TEST OUT connector (BNC type)
For analog signal output.
This can also output a VBS signal, HD-SYNC signal, or SD-SYNC signal, whichever is selected in the menu.

For details about signal settings, see "Setting the Camera Outputs" (page 33).

⓬ SDI MONI (serial digital interface) connector (BNC type)
For HD-SDI or SD-SDI signal output.

For details about signal settings, see "Setting the Camera Outputs" (page 33).

⓭ AUDIO IN CH1 and CH2 connectors (XLR 3-pin) and switches
Connect audio signals. An input select switch and microphone power switch are provided for each channel.



CH1 (channel 1) audio input select switch
Set to the appropriate position according to the equipment connected to the AUDIO IN CH1 connector.
LINE: When a line-level (0 dBu) signal source is connected
FRONT MIC: When using the microphone connected to the MIC 1 IN connector
MIC: When an external microphone is connected

CH2 (channel 2) audio input select switch
Set to the appropriate position according to the equipment connected to the AUDIO IN CH2 connector.
LINE: When a line-level (0 dBu) signal source is connected
AES/EBU: When a digital audio signal is connected (The signal must be in synchronization with the camera output).

MIC: When an external microphone is connected

Microphone power switches
When a microphone is connected to the corresponding AUDIO IN connector, set whether or not to supply power to the microphone.

+48V: Supply power at +48 V

OFF: Do not supply power.

(No function has been assigned to the lowermost position. No power is supplied to the microphone.)

Note

To supply +12 V power, contact a Sony sales representative or Sony service representative.

Transmission Adaptor Options

Note

For safety, only a qualified technician with service training should perform tasks inside the unit.

For details about installation, contact a Sony service or sales representative.

HKC-FB50 UHB Fiber Transmission Adaptor

The name and function of the connectors used are described below.

NETWORK TRUNK connector (RJ-45 8-pin) (see item ❶ of front left side on *page 11*): Connects a device connected to the CCU's NETWORK TRUNK connector to the network.

CCU (camera control unit) connector (see item ❹ of rear side on *page 11*): Connect a CCU using an optoelectric composite cable.

SDI 1 (serial digital interface 1) connector (BNC type) (see item ❺ of rear side on *page 11*): For HD-SDI signal, 3G-SDI signal, 6G-SDI signal, 12G-SDI signal, and UHD PROMPTER signal output.

SDI 2 (serial digital interface 2) connector (BNC type) (see item ❻ of rear side on *page 11*): For HD-SDI signal, 3G-SDI signal, 6G-SDI signal, and 12G SDI signal output, or HD TRUNK and UHD TRUNK signal input.
During standalone operation, input the HD-SDI return signal.
When RET (return) is set to 1, the return signal is displayed in the viewfinder.

SDI 3 (serial digital interface 3) connector (BNC type) (see item ❼ of rear side on *page 11*): For HD prompter signal output.

HKC-FB30 Fiber Transmission Adaptor

The name and function of the connectors used are described below.

NETWORK TRUNK connector (RJ-45 8-pin) (see item ❶ of front left side on *page 11*): Connects a device connected to the CCU's NETWORK TRUNK connector to the network.

CCU (camera control unit) connector (see item ❹ of rear side on *page 11*): Connect a CCU using an optoelectric composite cable.

SDI 1 (serial digital interface 1) connector (BNC type) (see item ❺ of rear side on *page 11*): For 3G-SDI signal, HD-SDI signal, or HD PROMPTER signal output.

SDI 2 (serial digital interface 2) connector (BNC type) (see item ❻ of rear side on *page 11*): For 3G-SDI signal, HD-SDI signal, or HD TRUNK signal input.
During standalone operation, input the HD-SDI return signal.
When RET (return) is set to 1, the return signal is displayed in the viewfinder.

PROMPTER2 (prompter 2) connector (BNC type): For prompter 2 signal output. Available only when connecting a camera control unit with a prompter 2 input connector.

HKC-TR37 Triax Transmission Adaptor

The name and function of the connectors used are described below.

CCU (camera control unit) connector (see item ❹ of rear side on *page 11*): Connect a CCU using a triax cable.

SDI 1 (serial digital interface 1) connector (BNC type) (see item ❺ of rear side on *page 11*): For 3G-SDI signal or HD-SDI signal output.

HKC-WL50 Wireless Transmission Adaptor

Connects video signals and control signals to a third-party wireless module to support wireless transmission.

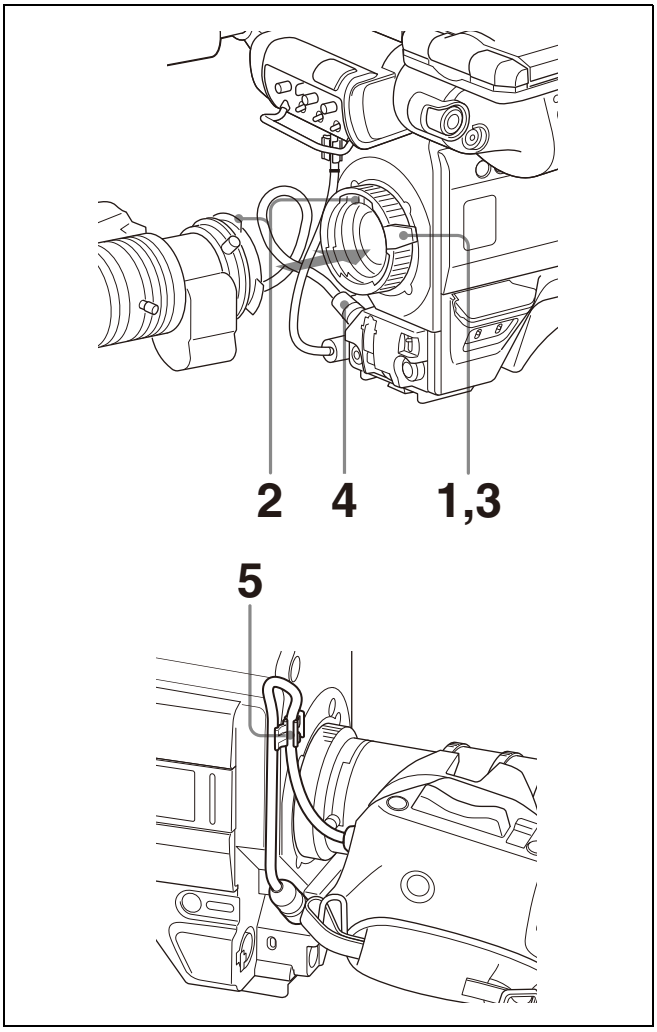
For details about supported wireless modules, contact your Sony sales representative.

Preparations

Attaching a Lens

For information about handling lenses, refer to the operation manual for the lens.

Attachment procedure



1 **Push the lens fixing lever upwards and remove the lens mount cap from the lens mount.**

2 **Align the lens' alignment pin with the notch in the upper part of the lens mount and insert the lens into the mount.**

3 **While supporting the lens, push the lens fixing lever downwards to secure the lens.**

4 **Connect the lens cable to the LENS connector.**

5 **Secure the lens cable with the cable clamp.**

Adjusting the Flange Focal Length

Adjustment of the flange focal length (the distance between the lens mount attachment plane and the imaging plane) is necessary in the following situations:

- The first time a lens is attached
- When changing lenses
- If the focus is not sharp at both telephoto and wide angle when zooming

The flange focal length can be more precisely adjusted by using the focus assist indicators.

For details about focus assist indicators, see "Displaying the focus assist indicators" (page 30).

Note

The various parts of the lens used in adjusting the flange focal length are in different positions on different lenses. Refer to the operation manual for the particular lens.

Adjustment procedure

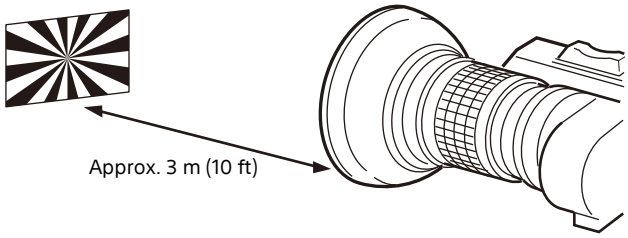
1 **Set the iris control to manual, and open the iris fully.**

2 **Place a flange focal length adjustment chart approximately 3 meters (10 ft) from the camera and adjust the lighting to get an appropriate video output level.**

3 **Loosen the Ff (flange focal length) ring lock screw.**

4 **With either manual or power zoom, set the zoom ring to telephoto.**

5 **Aim at the flange focal length adjustment chart and turn the focus ring to focus the image.**



6 **Set the zoom ring to wide angle.**

7 **Turn the Ff ring to bring the chart into focus. Take care not to move the distance ring.**

8 **Repeat steps 4 to 7 until the image is in focus at both telephoto and wide angle.**

9 **Tighten the Ff ring lock screw.**

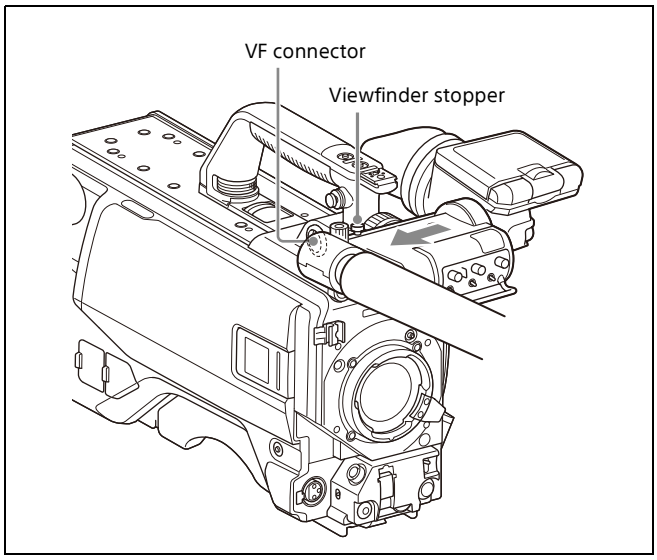
Attaching an Eyepiece Viewfinder

Warning
When the viewfinder is attached, do not leave the camera with the eyepiece facing the sun. Direct sunlight can enter through the eyepiece, be focused in the viewfinder and cause fire.

Attaching a viewfinder

This section describes using a HDVF-20A/200/EL20/EL30 (the HDVF-EL30 is shown in the diagrams).

For details about the viewfinder, refer to the operation manual of the viewfinder.



1 **Slide the viewfinder in the direction of the arrow.**
The viewfinder stopper automatically pops down.

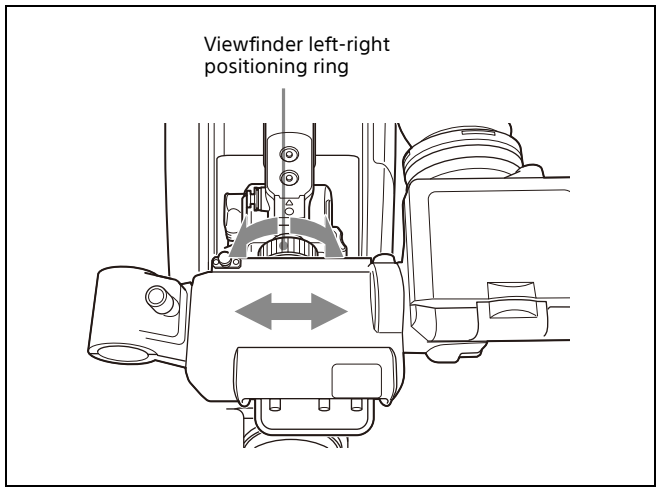
2 **Set the viewfinder left-right position, then tighten the left-right positioning ring (see *"To adjust the position to the left or right"* below).**

3 **Connect the viewfinder cable to the VF connector of the camera.**

Adjusting the viewfinder position

The viewfinder position may be adjusted towards the front and rear and to the left and right to make it easy to view.

To adjust the position to the left or right

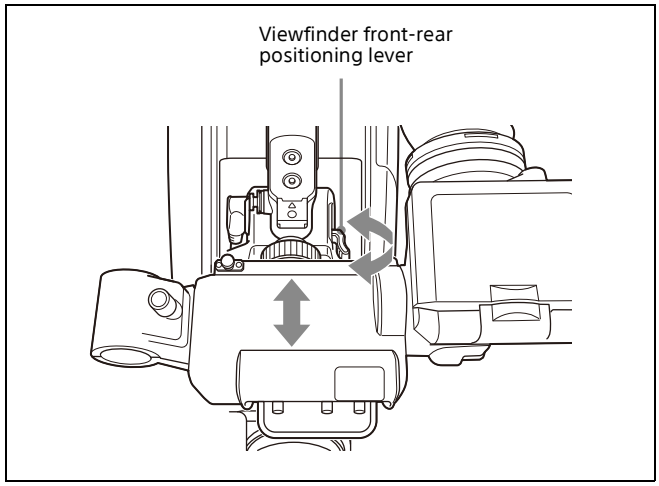


1 **Loosen the viewfinder left-right positioning ring.**

2 **Slide the viewfinder left or right to move it into a good viewing position.**

3 **Tighten the viewfinder left-right positioning ring.**

To adjust the position forward or backward



1 **Set the viewfinder front-rear positioning lever to the unlocked position.**

2 **Slide the viewfinder towards the front or rear of the camera to move it into a good viewing position.**

3 **Set the viewfinder front-rear positioning lever to the lock position to secure the viewfinder.**

Detaching the viewfinder

Loosen the viewfinder left-right positioning ring, pull the viewfinder stopper, then pull out the viewfinder by sliding it in the direction opposite to that when attached.

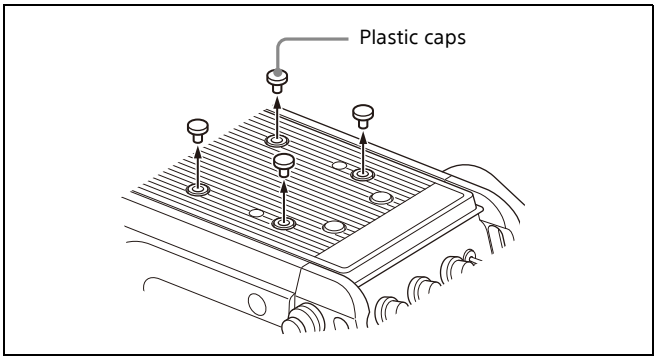
Attaching an Electronic Viewfinder

You can attach an electronic viewfinder supplied with the viewfinder slide unit directly to the HDC5500/5500V/3500/3500V.
For a viewfinder with a V-shoe, attach the V-wedge shoe attachment (supplied with the viewfinder) to the camera and attach the viewfinder to the attachment.

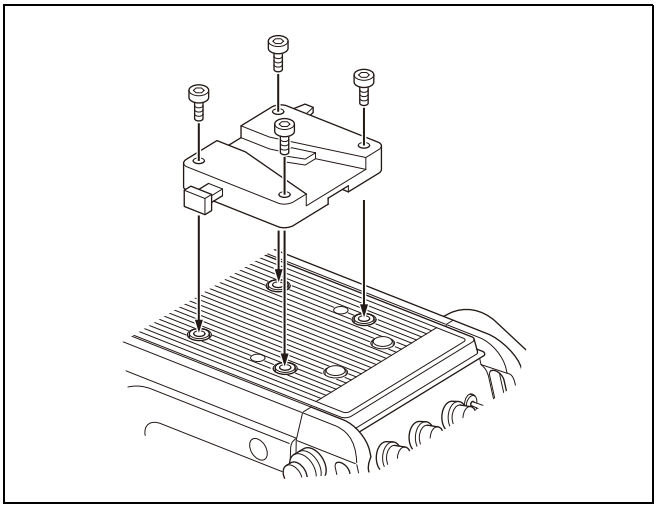
Notes

- When attaching the viewfinder to the camera or removing it from the camera, be sure to lock the viewfinder in its standard position.
- When removing the viewfinder from the camera, be sure to secure the tripod with its tilt-lock mechanism and hold the viewfinder firmly. Be careful not to fall or drop the viewfinder and camera.
- When attaching the V-wedge shoe attachment, be sure to use the supplied hexagonal screws.

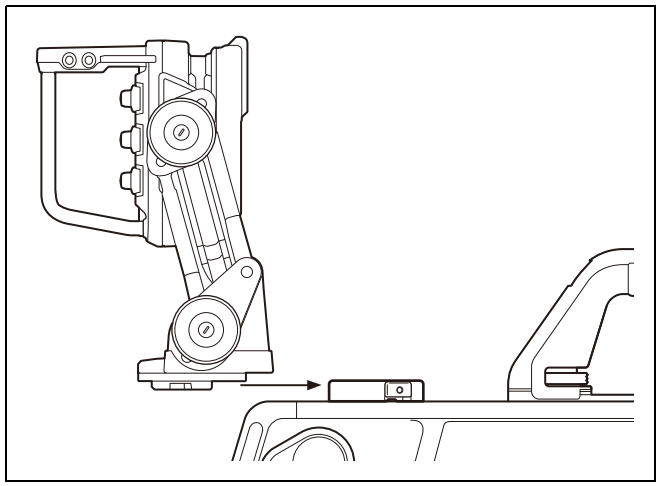
1 **Remove the four plastic caps from the camera.**



2 **Attach the V-wedge shoe attachment to the camera using the supplied hexagonal wrench and four hexagonal screws (4×12).**



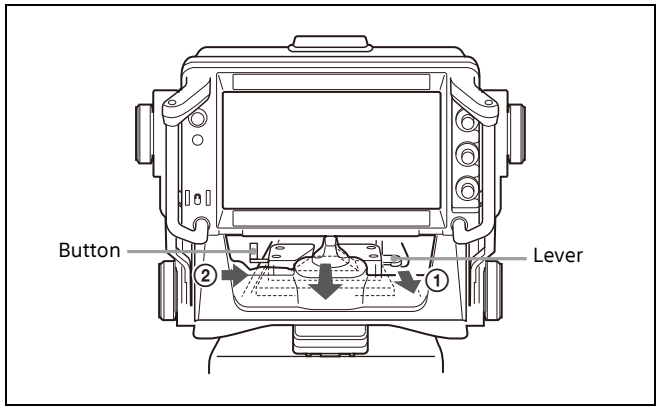
3 **Insert the viewfinder firmly into the V-wedge shoe attachment.**
There is an audible click when the viewfinder snaps into the attachment.



4 **Connect the camera connector of the viewfinder to the VF connector of the camera.**

Detaching the viewfinder

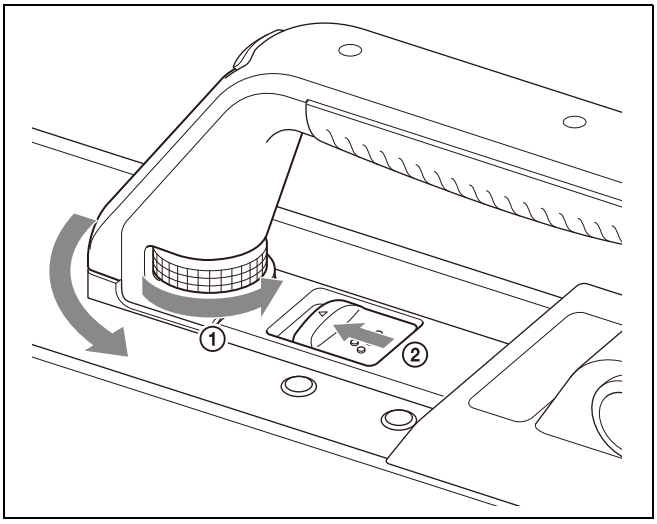
Pull the lever and push down the button while pulling the viewfinder toward you, as shown in the figure below.



If the tilt/pan angle available for the viewfinder is restricted

You can alleviate interference by rotating the camera handle.

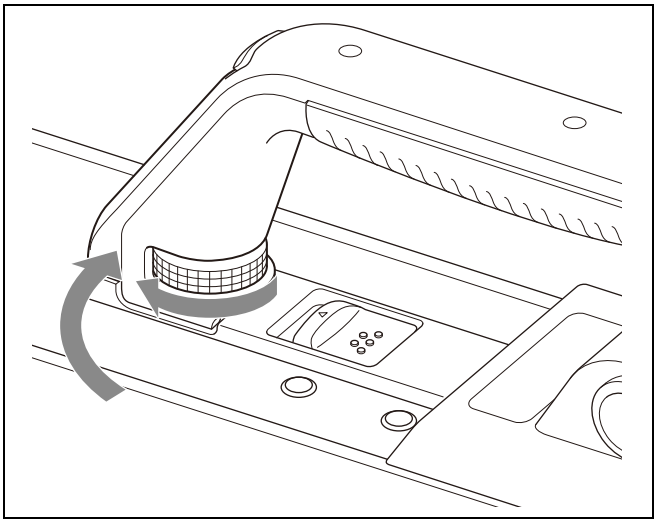
1 Loosen the handle rotation lock knob ① of the camera until it turns freely, then push the handle rotation release lever ② to unlock the grip.



2 Rotate the handle toward the front of the camera.

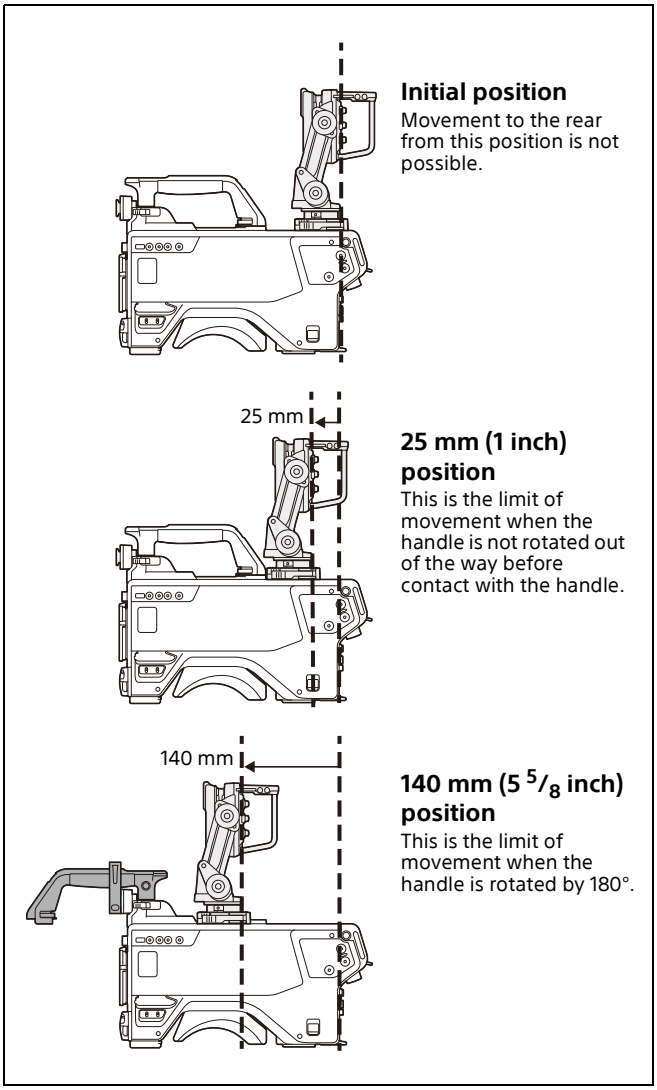
To stow the handle of the camera in the original position

Return the handle to the lock position, and securely tighten the handle rotation lock knob.



Attaching an Electronic Viewfinder using the Viewfinder Slide Unit

On the HDC5500V/3500V, you can move the viewfinder attached to the camera over the range shown in the following diagrams using the viewfinder slide unit (supplied).



Initial position
Movement to the rear from this position is not possible.

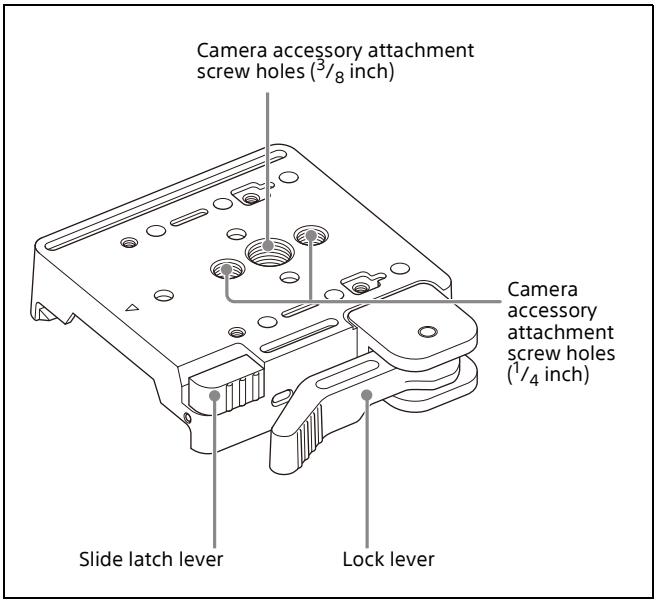
25 mm (1 inch) position
This is the limit of movement when the handle is not rotated out of the way before contact with the handle.

140 mm (5 5/8 inch) position
This is the limit of movement when the handle is rotated by 180°.

Notes

- After attaching the viewfinder, always secure the viewfinder slide unit.
- When the handle is rotated, always secure the handle using the handle clamp (supplied)
- When the handle is rotated, do not hold the camera by the handle. If the camera is held by the handle, the handle may be damaged causing the camera to fall.
- When removing the viewfinder from the viewfinder slide unit, be sure to secure the tripod with its tilt-lock mechanism and hold the viewfinder firmly. Be careful not to fall or drop the viewfinder and camera.
- When attaching the V-wedge shoe attachment, be sure to use the supplied hexagonal screws.

Locations and functions of the viewfinder slide unit parts

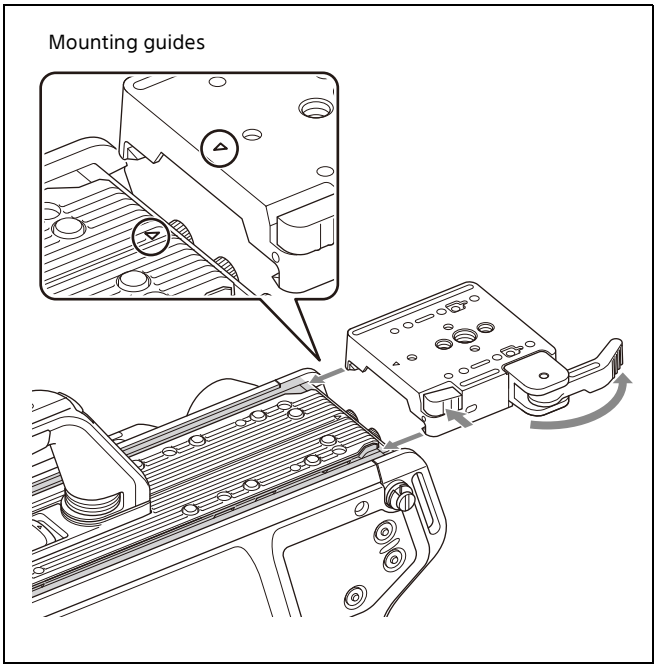


The viewfinder slide unit can be attached to the camera using the V-wedge shoe attachment, or attached directly to the camera without using the V-wedge shoe attachment.

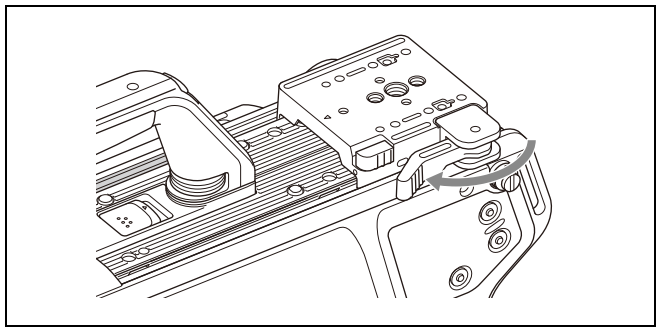
Attaching the viewfinder slide unit using the V-wedge shoe attachment

1 **Set the lock lever of the viewfinder slide unit to the release position.**

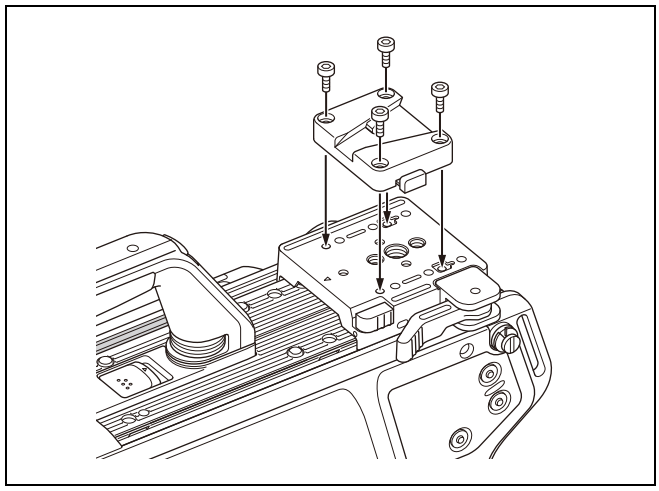
2 **Push and hold the slide latch lever while inserting the viewfinder slide unit onto the slide rails (grooved parts) of the camera.**
Align the viewfinder slide unit mounting guides and camera mounting guides to insert it correctly.



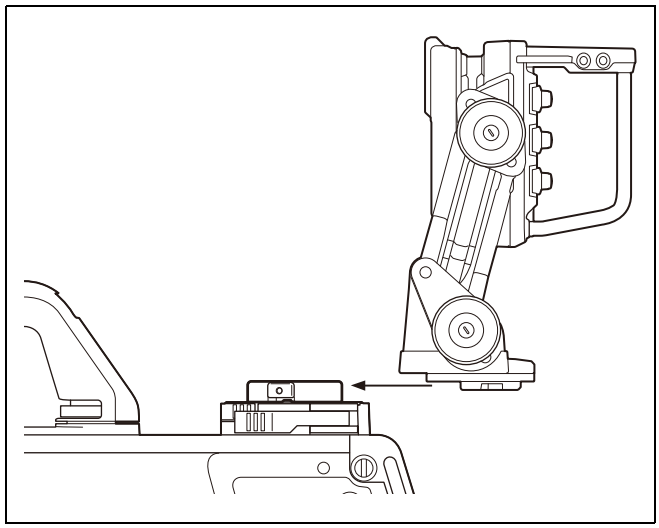
3 **Set the lock lever to the lock position with the viewfinder slide unit in the initial position.**



4 **Attach the V-wedge shoe attachment (supplied with the viewfinder) to the viewfinder slide unit using a hexagonal wrench (supplied with the viewfinder) and four hexagonal screws (4×12) (supplied with the viewfinder).**



5 **Insert the viewfinder firmly into the V-wedge shoe attachment.**
There is an audible click when the viewfinder snaps into the attachment.



6 **Connect the camera connector of the viewfinder to the VF connector of the camera.**

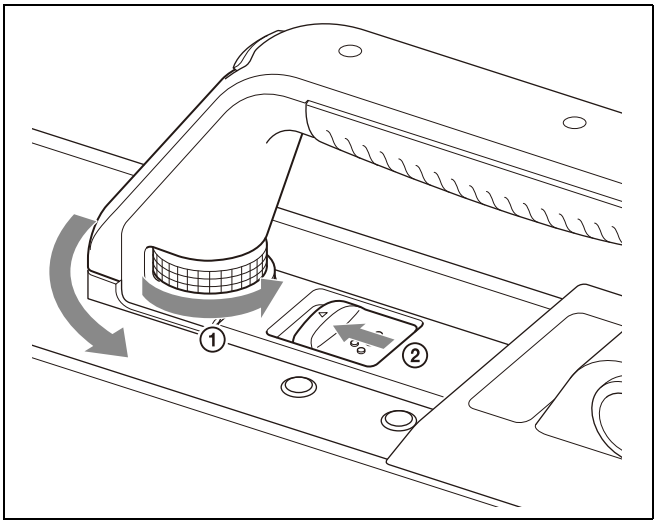
7 **Set the lock lever of the viewfinder slide unit to the release position, and push and hold the slide latch lever while moving the unit to the desired position.**

8 **Release the slide latch lever with the unit in the desired position and set the lock lever to the lock position.**

When the handle is not rotated, the range of movement is 25 mm (1 inch) from the initial point.

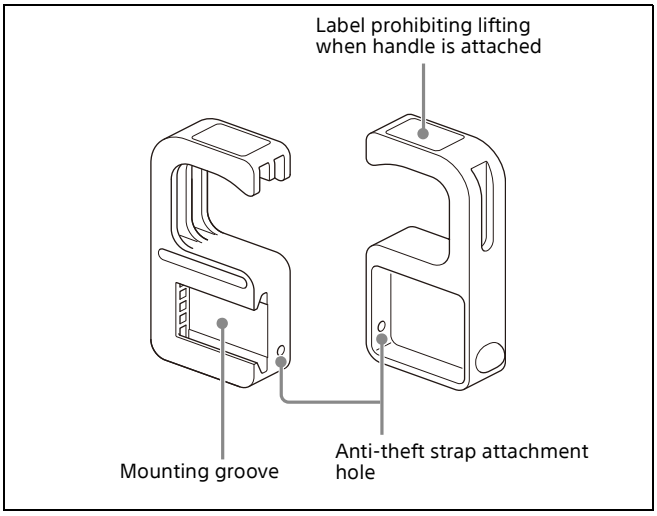
To move the viewfinder further toward the front of the camera, use the following procedure. When the handle is rotated, the range of movement is 140 mm ($5\ ^{5}/_{8}$ inch) from the initial point.

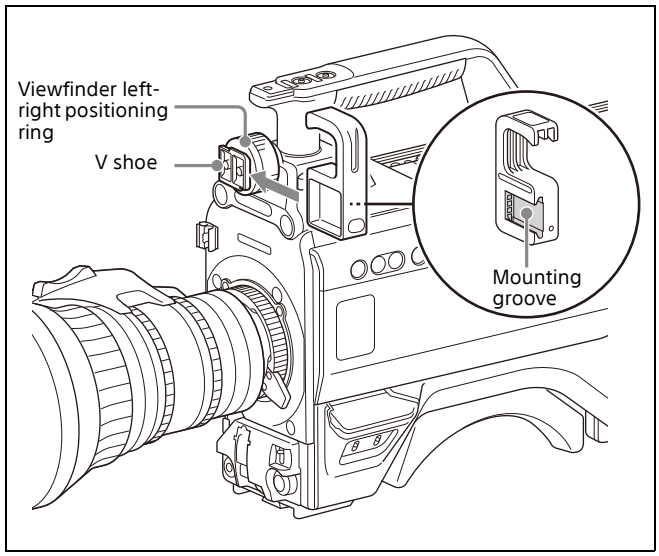
9 **Loosen the handle rotation lock knob ① of the camera until it turns freely, then push the handle rotation release lever ② to unlock the grip.**



10 **Attach the handle clamp such that the groove fits onto the V shoe of the eyepiece viewfinder.**

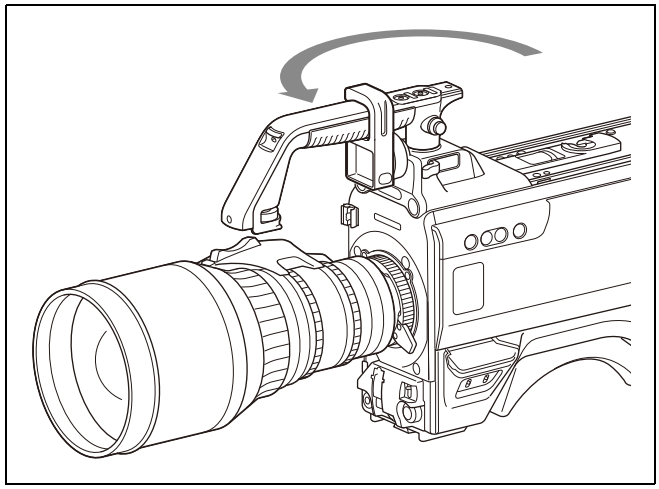
11 **Tighten the viewfinder left-right positioning ring.**





12 **Rotate the handle toward the front by 180°.**

13 **Insert the handle into the arm of the handle clamp.**



Note

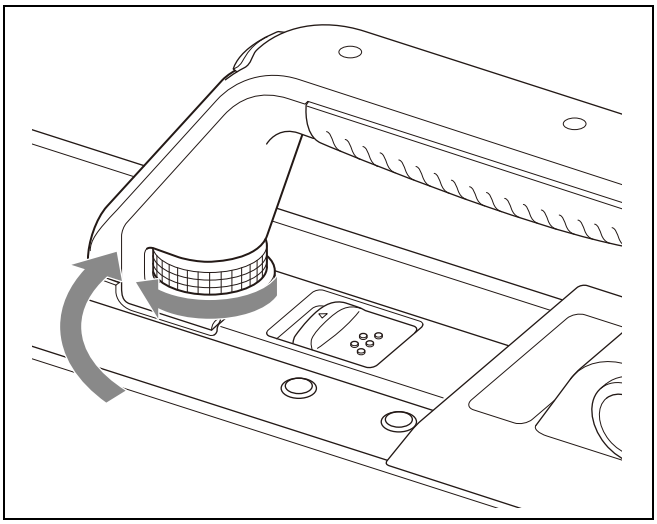
Check that the handle is securely fastened.

To stow the handle of the camera in the original position

1 **Rotate the handle toward the rear to remove it from the arm of the handle clamp.**

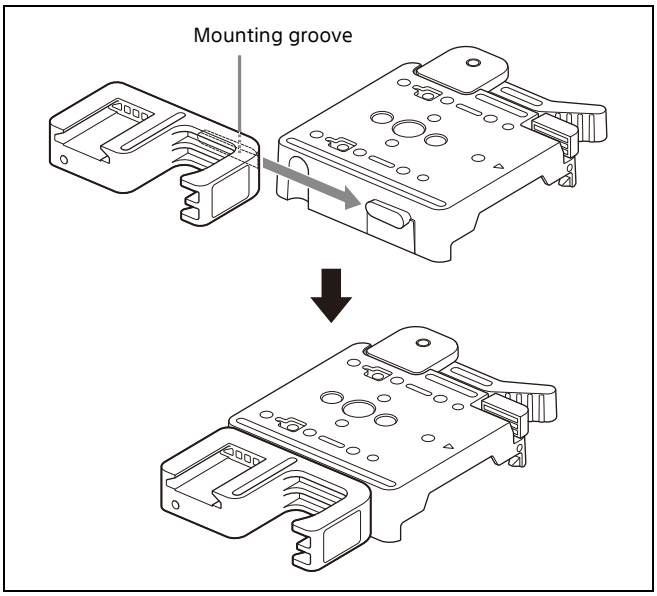
2 **Tighten the viewfinder left-right positioning ring and remove the handle clamp.**

3 **Return the handle to the original position until it locks into place, and securely tighten the handle rotation lock knob.**



Storing the handle clamp

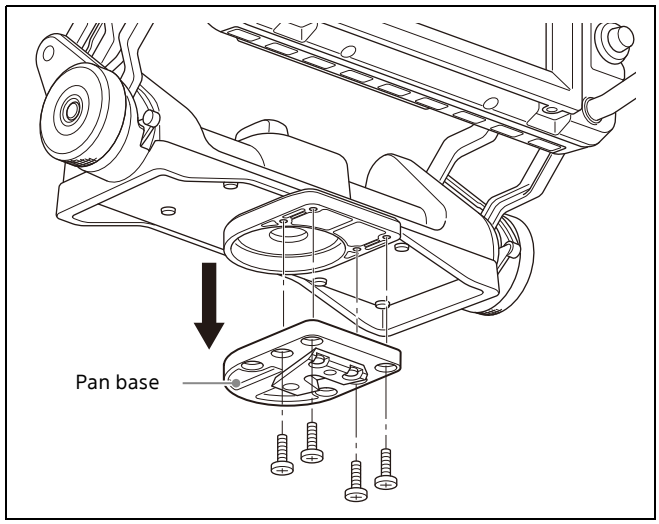
Attach the handle clamp to the viewfinder slide unit as shown in the following diagram.



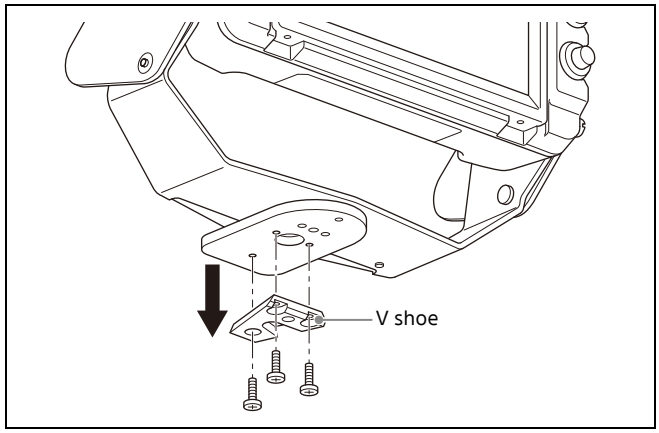
Attaching the viewfinder slide unit without using the V-wedge shoe attachment

1 **Remove the viewfinder pan base (HDVF-EL75/L770) or V shoe (HDVF-L750).**

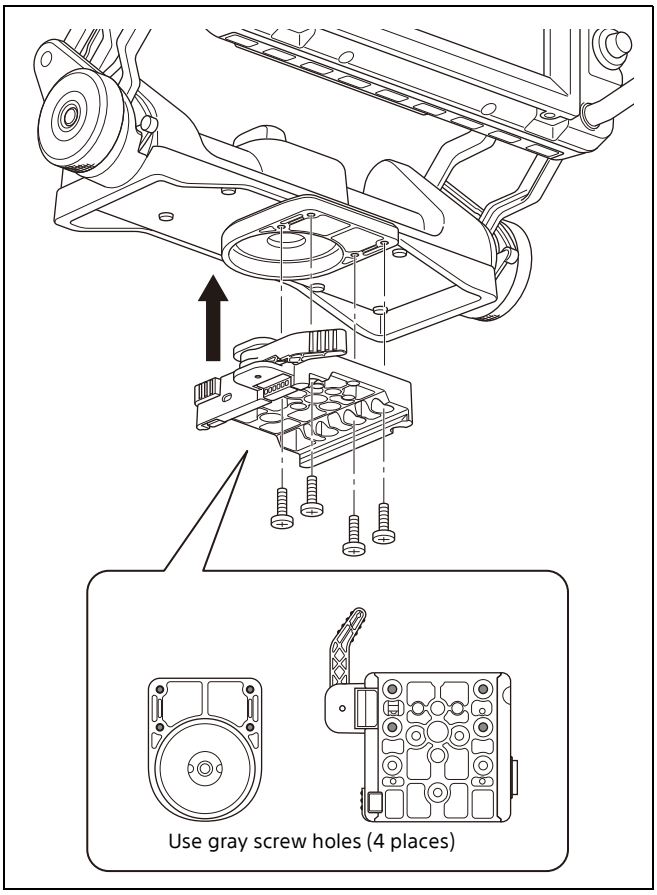
<HDVF-EL75/L770>



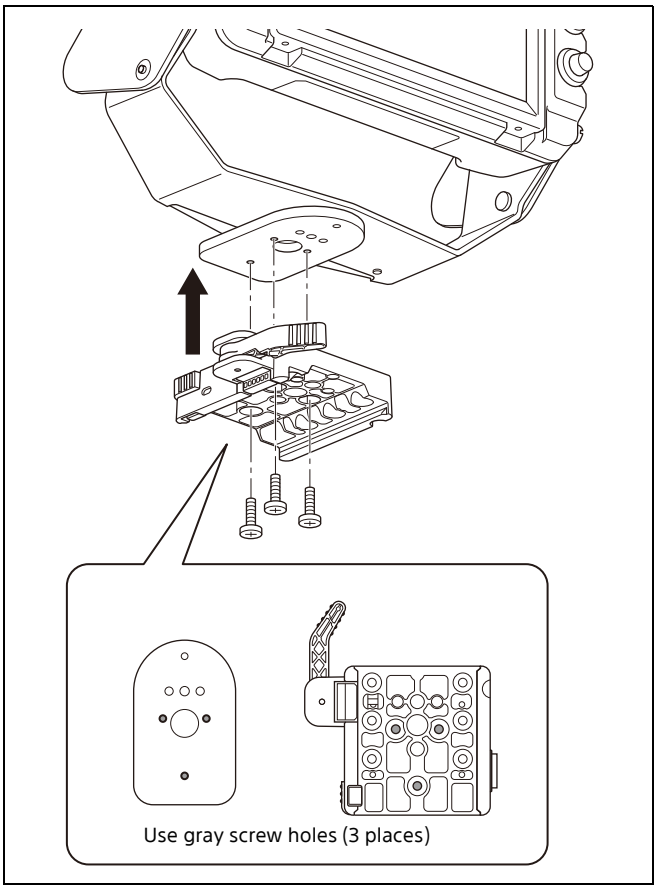
<HDVF-L750>



2 **Attach the viewfinder slide unit to the viewfinder.**
<HDVF-EL75/L770>



<HDVF-L750>



3 **Set the lock lever of the viewfinder slide unit to the release position.**

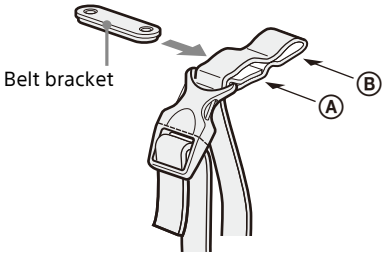
4 **Push and hold the slide latch lever of the viewfinder slide unit while inserting the viewfinder onto the slide rails (grooved parts) of the camera.**

5 **Perform the procedure described in *"Attaching the viewfinder slide unit using the V-wedge shoe attachment"* from step 6.**

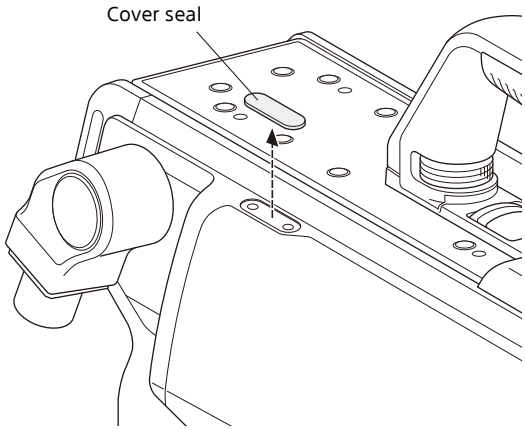
Attaching the Cable Clamp Belt (Supplied)

You can secure the optoelectric composite cable or triax cable, connected to the CCU connector, to the side of the camera by attaching the supplied cable clamp belt.

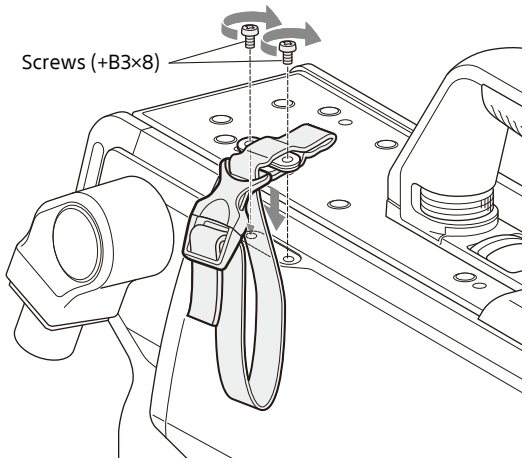
1 **Insert the belt bracket into hole Ⓐ or Ⓑ of the cable clamp belt.**



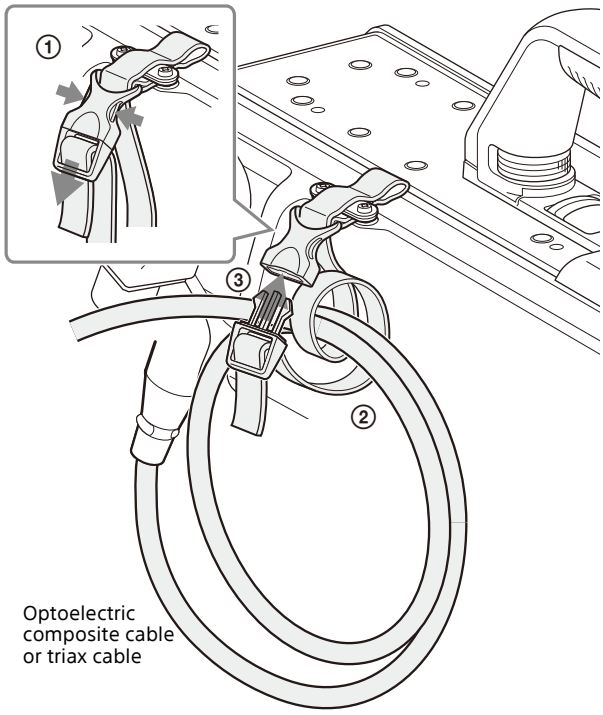
2 **Peel off the cover seal from the camera as shown in the following diagram.**



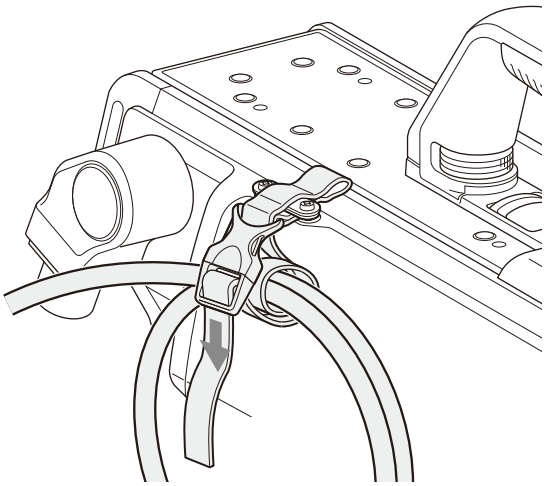
3 **Secure the cable clamp belt to the camera, using the two supplied +B3×8 screws.**



4 **① Release the buckle, ② bundle the cable with the belt, ③ then lock the buckle again.**



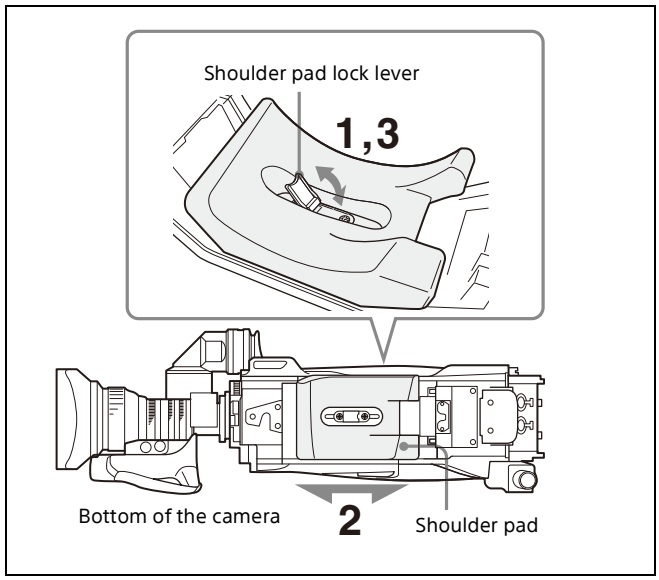
5 **Adjust the length by pulling down the end of the belt.**



Adjusting the Shoulder Pad Position

You can shift the shoulder pad from its center position (factory setting) backward by up to 10 mm ($^{13}/_{32}$ inch) or forward by up to 25 mm (1 inch). This adjustment helps you get the best balance for shooting with the camera on your shoulder.

Adjustment procedure



1 **Raise the lever in the center of the shoulder pad to unlock the shoulder pad.**

2 **Slide the shoulder pad backward or forward until it is in the most convenient position.**

3 **Move the lever down to lock the shoulder pad in the selected position.**

Mounting the Camera to a Tripod

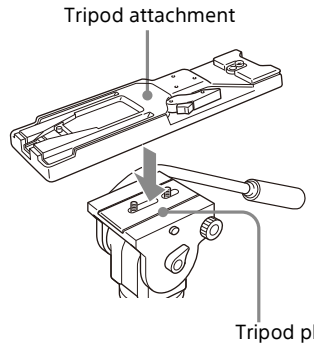
Mount the camera to a tripod using a VCT-14 Tripod Attachment.

Notes

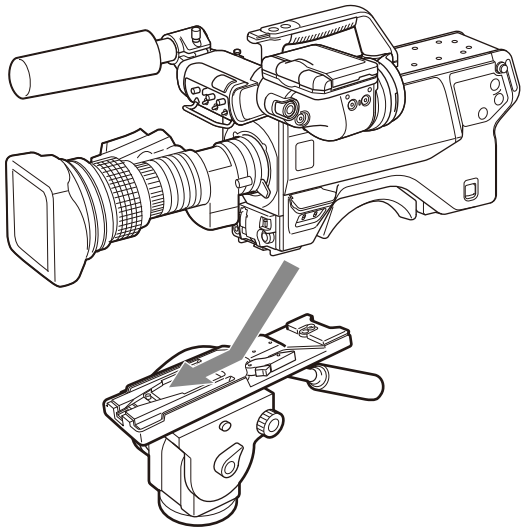
- Select an appropriate hole from among those at the bottom of the tripod attachment considering the balance of the weight of the camera and the tripod attachment. If an inappropriate hole is selected, the center of gravity may be off center, which may cause the camera to fall over and may cause an injury.
- Check that the size of the selected hole matches that of the screw of the tripod. If they do not match, the tripod attachment cannot be attached to the tripod securely.

Attachment procedure

1 Attach the tripod attachment to the tripod and secure it with the screw.



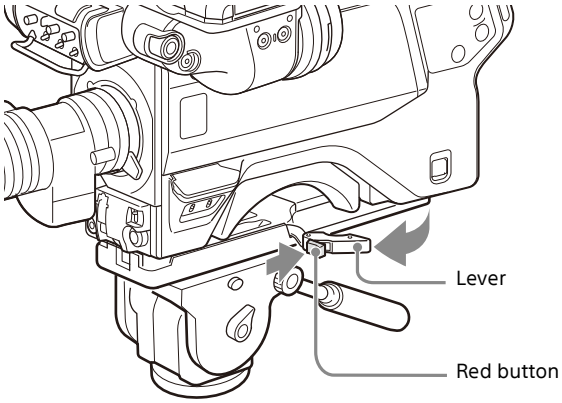
2 Place the camera on the tripod attachment, and slide forward it along the groove of the tripod attachment until it clicks.



3 Make sure that the camera is securely attached by moving it back and forth.

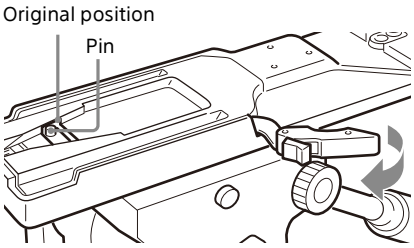
To remove the camera from the tripod attachment

Hold down the red button and pull the lever in the direction of the arrow.



If the pin of the tripod attachment does not return to its original position

After removing the camera, if the pin of the tripod attachment does not return to its original position, hold down the red button and move the lever in the direction of the arrow to return the pin to its original position. It is not possible to mount a camera with the pin not seated.



Adjustments and Settings for Shooting

Adjusting the Black Balance and White Balance

In order to maintain high picture quality, it is necessary to set the black balance and white balance appropriately for the conditions.

Note

When a camera control unit or a remote control device, such as the MSU or RCP series, is connected, control is performed from the RCP/MSU, and the switches on the camera are disabled.

Black balance adjustment

The black balance needs adjustment in situations like the following:

- The first time the camera is used
- When the camera is used after a long period of disuse
- When the surrounding temperature changes greatly
- When the gain value is changed using the setup menus

Normally, there is no need to adjust the black balance every time the camera is turned on.

White balance adjustment

Always readjust the white balance when lighting conditions change.

About the viewfinder screen

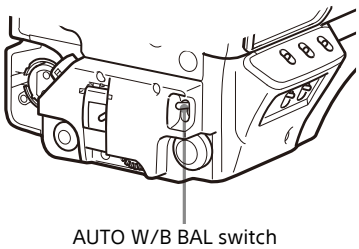
After the process of adjusting the black balance or white balance begins, messages about the progress and results of the adjustment will be displayed on the viewfinder screen.

Note

Adjusted values set through automatic adjustment, and other settings, are stored in the camera's memory and preserved even when the camera power is turned off.

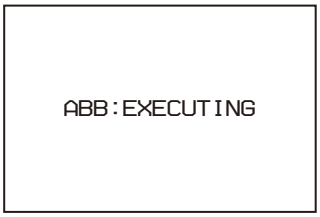
Adjusting the black balance

Push the AUTO W/B BAL switch toward BLK (downward).



AUTO W/B BAL switch

Automatic adjustment of black balance begins.
In automatic adjustment of black balance, both the black set and black balance are adjusted.
During adjustment, a message like the one in the figure below will be displayed on the viewfinder screen.



When the adjustment process is completed, the message "ABB: OK" will be displayed. The adjusted value is automatically stored in memory.

Notes

- During black balance adjustment, the iris will be automatically closed.
- During black balance adjustment, the gain switching circuit will work automatically, and the viewfinder screen will flicker several times. This is not a malfunction.

When automatic black balance adjustment fails

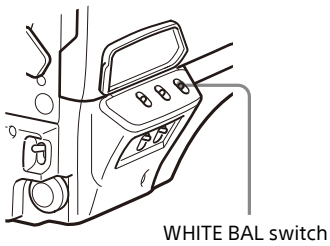
If the automatic black balance adjustment process does not end successfully, the error message "ABB: NG" will be displayed on the viewfinder screen for approximately three seconds.
If this error message is displayed, try black balance adjustment again.
If the error message continues to be displayed after several attempts, the camera requires internal inspection.

About black balance memory

The black balance values stored in memory will be preserved even when the camera power is turned off.

Adjusting the white balance

1 Set the WHITE BAL switch to A or B.



WHITE BAL switch

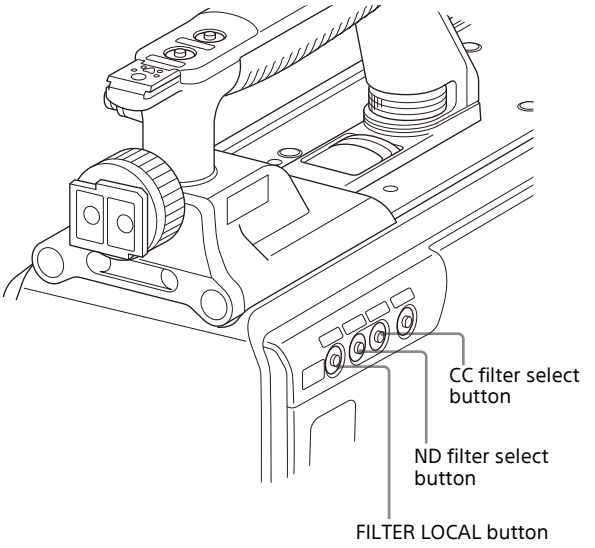
2 Select the filter setting according to the lighting conditions.

To select the ND filter
Press the ND filter select button while holding the FILTER LOCAL button depressed.
Each press of the select button switches the available ND filters in sequence.
On the HDC5500V/3500V or when HKC-VND50 is installed, you can change the transmittance settings from the menu.

To select the CC (color temperature conversion) filter
Press the CC filter select button while holding the FILTER LOCAL button depressed.
Each press of the select button switches the available CC filters in sequence.
You can change the sequence and settings from the menu.

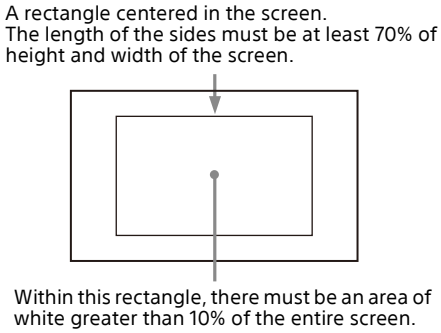
Note

When using HFR formats, only the ND filter can be used.



3 **Place a white pattern in the same lighting conditions as the subject, and zoom in on it so that a white area is obtained in the screen to satisfy the positional and quantitative requirements illustrated below.**

A white object (white cloth, a white wall, etc.) near the subject may be used in place of a white pattern.



Note

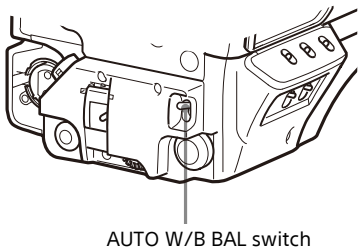
Be careful not to have any spots of high illumination in the rectangle.

4 **Adjust the lens iris opening.**

With a manually adjusted lens: Set the opening to an appropriate value.

With a lens which has automatic iris control: Set the lens' automatic/manual iris control switch to automatic.

5 **Push the AUTO W/B BAL switch to WHT (up).**



White balance automatic adjustment begins.

During adjustment, the message "AWB: EXECUTING" will be displayed on the viewfinder screen.
A message like the one in the figure below will be displayed, and the adjustment process will complete. The adjusted value will be automatically stored in the memory (A or B) selected in step **1**.

Note

When using a zoom lens with automatic iris control capability, hunting[1)] may occur. Adjust the lens' iris gain control (labeled IG, IS, S, etc.).

1) Hunting: The automatic iris responds over and over, and the image repeatedly darkens and lightens.

For more information, refer to the lens' operation manual.

When automatic white balance adjustment fails

If the white balance adjustment process does not end successfully, the error message "AWB: NG" will be displayed on the viewfinder screen for approximately three seconds.
If this error message is displayed, try white balance adjustment again.
If the error message continues to be displayed after several attempts, the camera requires internal inspection.

When there is no time to adjust the white balance

Set the WHITE BAL switch to PRST. The white balance will be set automatically according to the filter settings.

About white balance memory

The white balance values stored in memory will be preserved even when the camera power is turned off. There are two white balance memories, A and B. When the AUTO W/B BAL switch is pushed to the WHT side, the white balance will be adjusted automatically according to the filter settings. The adjusted value will be stored in the selected memory. Each memory can store up to five adjusted values, for a total of 10.

Setting the Electronic Shutter

This section explains the different modes which can be used for the electronic shutter and gives the procedures for setting the shutter mode and shutter speed.

Note

When a camera control unit or a remote control device, such as the MSU or RCP series, is connected, control is performed from the RCP/MSU, and the switches on the camera are disabled.

About the shutter modes

The shutter modes that can be used with the electronic shutter of the camera and the shutter speeds that may be selected are as follows:

Shutter modes and speeds

Shutter mode	Shutter speeds*	Usage
Standard	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 (seconds)	Use to obtain clear images of quickly moving subjects
ECS (Extended Clear Scan)	Continuously variable in the range of 59.96 Hz to 4300 Hz	Use to obtain images on video monitors without horizontal striping

* The values in the table are those with 59.94i. With other formats, the available values are different.

Note

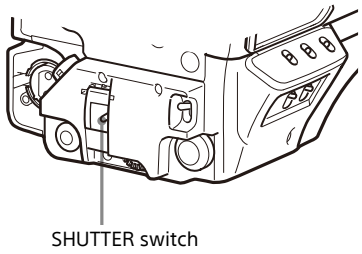
With artificial lighting, particularly fluorescent lights and mercury vapor lamps, the brightness appears to be constant, but in fact the strength of the red, green, and blue components varies with the power supply frequency. This phenomenon is known as "flicker." When using the electronic shutter under these lighting conditions, there are certain cases in which the flicker is more noticeable. In particular, color flicker is evident when the power frequency is 60 Hz. In areas where the power frequency is 50 Hz, setting the shutter speed to 1/100 second will reduce the flicker.

Selecting the shutter mode and speed

The shutter mode, and the shutter speed in standard mode, are set using the SHUTTER switch.

Setting the shutter mode, and shutter speed in Standard mode

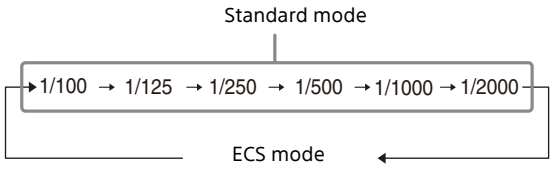
1 Push the SHUTTER switch from the ON position to the SEL position.



The current shutter setting will be displayed on the viewfinder screen for about three seconds.
Example: "SHUTTER: 1/250"

2 Push the SHUTTER switch to the SEL position again before the display disappears. Repeat this action until the desired mode or speed is displayed.
When all modes and speeds are displayed, they will be displayed in the following order:

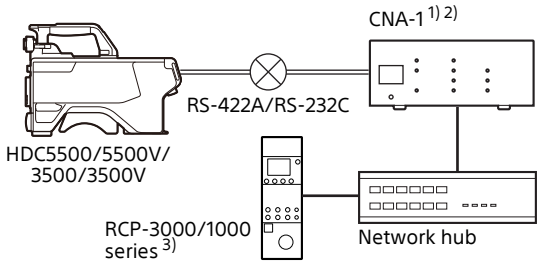
Example: with 59.94i



Setting the Transport Conversion Function

On the HDC5500/5500V/3500/3500V, this function converts the communications protocol from the camera network system protocol to the simple protocol internally in the unit.
Using the simple protocol for communication between the HDC5500/5500V/3500/3500V and CNA-1 (RS-422A/RS-232C) enables camera control using transmission lines that do not support the camera network system protocol or which have high latency, such as wireless networks.
You can toggle this function on/off on the <SIMPLE PROTOCOL> page *(page 88)*.

For details about configuring the CNA-1, refer to the operation manual of the CNA-1.



1) Connect the RS-422A/RS-232C cable to the I/O connector of the CNA-1.

2) Set CNS Mode to Bridge, and Emulation Mode to CAM.

3) Set CNS Mode to Bridge.

Transmission lines/networks that support the simple protocol

Transmission lines/networks that meet the following conditions are supported.

- Latency: 1 second or lower (one way)
- Bandwidth: 100 kbps or higher

Connectors used for simple protocol communication

Use one of the following connectors on the HDC5500/5500V/3500/3500V.

- REMOTE connector on the connector panel (supports RS-422A only)
- CRANE connector on the connector panel (supports RS-422A/RS-232C)
- I/O connector on the HKC-WL50 Wireless Transmission Adaptor (option) (supports RS-422A/RS-232C)

Change the PORT setting on the <SIMPLE PROTOCOL> page for the connector that is used *(page 88)*.

Setting the Focus Assist Functions

Using the OPERATION menu, the assist functions for easier focusing on the viewfinder, can be activated.

Adding the VF detail signal

Adding the detail signal to sharp edges in the image on the viewfinder screen makes it easier to check the focusing condition by observing changes in the detail signal or in the color converted from the detail signal (color detail).
The focus setting where the detail signal becomes strongest is the best focus setting.

1 **Turn on the camera.**

2 **Set the DISPLAY switch to MENU while holding the MENU SEL knob/ENTER button pressed.**
The camera enters Menu mode, and "TOP" is displayed at the upper right corner of the screen.

3 **Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to "TOP" and press the MENU SEL knob/ENTER button.**
The TOP MENU screen appears.

```
<TOP MENU>

➡USER
 USER MENU CUSTOMIZE
 ALL
 ·OPERATION
 ·PAINT
 ·MAINTENANCE
 ·FILE
 ·DIAGNOSIS
```

4 **Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to OPERATION and press the MENU SEL knob/ENTER button.**
The CONTENTS page of the OPERATION menu is displayed.

```
   CONTENTS        00  TOP
↓↓
➡01.<VF DISPLAY>
 02.<'!'IND>
 03.<VF MARKER>
 04.<VF DETAIL>
 05.<DYNAMIC FOCUS>
 06.<FOCUS POSITION METER1
 07.<FOCUS POSITION METER2
 08.<FOCUS ASSIST>
 09.<ZEBRA>
 10.<CURSOR>
 11.<BOX CURSOR FILE>
 12.<VF DYNAMIC CONTRAST>
 13.<SPIRIT LEVEL>
 14.<VF OUT>
```

5 **Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to <VF DETAIL> and press the MENU SEL knob/ENTER button.**
The <VF DETAIL> page is displayed.

```
<VF DETAIL>       ➡ 04 TOP

VF DETAIL     :  ON   25%
 CRISP        :   0
 FREQUENCY    :  9M
 FLICKER      : OFF
 AREA         : 100%
 ZOOM LINK    :  ON   50%
COLOR DETAIL  : OFF
 COLOR        : BLUE
 PEAK COLOR   : OFF
 CHROMA LEVEL:  25%
RETURN DISABLE : OFF
DYNAMIC FOCUS: (OFF)
```

6 **Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to the item to be set and press the MENU SEL knob/ENTER button.**

To use the VF detail signal
Set VF DETAIL to ON to add the detail signal to sharp edges in the image. You can adjust the signal level (strength) in the range of 0 to 100% (default 25%).
You can adjust the characteristics of the detail signal with the menu items below.

CRISP: Adjust to eliminate fine portions of the detail signal.

FREQUENCY: Change the detection band of sharp edges.

FLICKER: Turn the detail signal flicker function on/off (setting to ON makes it easier to check the detail signal on a viewfinder screen).

AREA: Limit the area where to display the detail signal.

ZOOM LINK: Set the VF detail level at the WIDE position. (The VF detail level changes according to the zoom position.)

To use the color detail
Set COLOR DETAIL to ON to convert the detail signal to a specified color. This makes it easier to check the signal on an LCD screen, including a color viewfinder screen. The display color can be selected in the column next to ON.
You can adjust the coloring with the menu items below.

PEAK COLOR: Turn ON/OFF the function to change the color where the detail signal is strongest.

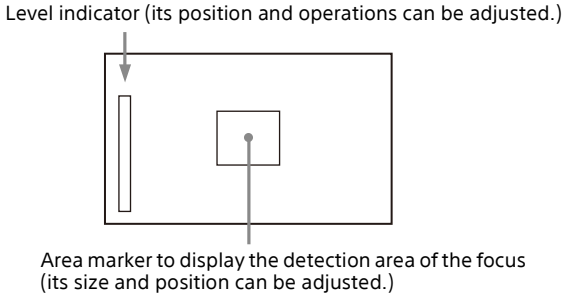
CHROMA LEVEL: To reduce the chroma components of the video signal (only for video signals on a viewfinder).

7 **Turn the MENU SEL knob/ENTER button to display the desired setting and press the MENU SEL knob/ENTER button.**

8 **To finish the adjustment, set the DISPLAY switch to OFF to exit Menu mode.**

Displaying the focus assist indicators

The focus assist indicator function extracts the irregularities of a subject and converts the integrated values to a level indicator, which shows the focus condition.



The focus setting where the indicator shows the maximum level is the best focus setting. (The range of the indicator substantially changes depending on picture elements or shooting environments. Adjust it with GAIN and OFFSET as required.)

1 **Display the CONTENTS page of the OPERATION menu (referring to steps 1 to 4 in *"Adding the VF detail signal"*).**

2 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to <FOCUS ASSIST> and press the MENU SEL knob/ENTER button.

The <FOCUS ASSIST> page is displayed.

```
<FOCUS ASSIST>    ➡ 08 TOP

INDICATOR   : OFF
 MODE       : BOX    BOTTOM
 LEVEL      : 3      QUICK
 GAIN       : 50
 OFFSET     : 50
AREA MARKER:  ON
 SIZE       : MIDDLE
 POSITION   : CENTER
 POSITION H: 50
 POSITION V: 50
```

3 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to the item to be set and press the MENU SEL knob/ENTER button.

To use the level indicator

Setting INDICATOR to ON displays the level indicator on a viewfinder. You can set the display format with the menu items below.

MODE: Set the type and position of the indicator.

LEVEL: Set the density and the response speed of the indicator.

GAIN: Set the sensitivity of the indicator.[1)]

OFFSET: Set the offset of the focus detection value.[2)]

1) Normally, the sensitivity of the indicator is automatically set to the optimum value in conjunction with the AREA MARKER SIZE set value. Use this setting when an optimum sensitivity value cannot be obtained, depending on the shooting environment.

2) Normally, the optimum offset is automatically set in conjunction with the AREA MARKER SIZE and MASTER GAIN set values. Use this setting when the optimum offset cannot be obtained, depending on the shooting environment.

To use the area marker

Setting AREA MARKER to ON displays the detection area of the focus as a marker on a viewfinder screen. You can set the size and position of the detection area with the menu items below.

SIZE: The size of the detection area can be changed. (If the area size is too large, both the subject and the background are included in the area, making the indicator display may easily deviate from the subject.)

POSITION: Roughly set the position of the detection area.

POSITION H: Finely adjust the position of the detection area in the horizontal direction.

POSITION V: Finely adjust the position of the detection area in the vertical direction.

4 Turn the MENU SEL knob/ENTER button to display the desired setting and press the MENU SEL knob/ENTER button.

5 To finish the adjustment, set the DISPLAY switch to OFF to exit Menu mode.

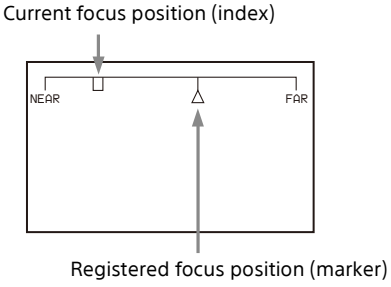
Notes

- The level indicator and the effect area marker cannot be displayed simultaneously. Whichever you set to ON last is preferentially displayed.
- The area marker and the aspect safety marker cannot be displayed simultaneously. Whichever you set to ON last is preferentially displayed.
- When displaying the focus assist indicators, check that the flange focal length has been precisely adjusted.

  For details about the flange focal length, see "Adjusting the Flange Focal Length" (page 17).

Setting the Focus Position Meter Function

The focus position meter function allows you to graphically display the registered focus position (marker) and the current focus position (index) graphically on the viewfinder screen.



You can set the focus to the registered point easily by adjusting the focus until the index position overlaps the marker position (adjusted state). In the adjusted state, you can display a color frame and marker name on the viewfinder screen.

1 Display the CONTENTS page of the OPERATION menu (referring to steps 1 to 4 in *"Adding the VF detail signal"*).

2 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to <FOCUS POSITION METER1> or <FOCUS POSITION METER2>, and press the MENU SEL knob/ENTER button.

The <FOCUS POSITION METER1> page or <FOCUS POSITION METER2> page is displayed.

```
<FOCUS POSITION METER1> 06 TOP

FOCUS POSITION METER: ON
 NEAR LIMIT    : 100 (0~999)
 FAR LIMIT     : 923 (0~999)
 DIRECTION     : HORIZONTAL
 SIZE          : NORMAL
 RULED LINE    :  ON
 INDEX COLOR   : WHITE
 INDEX WIDTH   : 1
 MARKER WIDTH  : 1

CURRENT FOCUS DIST :_5.7M 18.7ft
                     236 (0~999)
```

3 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to the item to be set and press the MENU SEL knob/ENTER button.

To use the focus position meter

Setting FOCUS POSITION METER to ON displays the focus position meter on the viewfinder screen.
You can set the display format with the <FOCUS POSITION METER1> page items below.

NEAR LIMIT: Sets the NEAR edge of the focus position meter.

FAR LIMIT: Sets the FAR edge of the focus position meter.

The focus position range to display varies depending on the NEAR LIMIT and FAR LIMIT settings. The full range is

displayed by setting NEAR LIMIT to 0 and FAR LIMIT to 999.

DIRECTION: Selects whether to display the meter horizontally at the top of the screen or vertically on the right edge of the screen.

SIZE: Sets the size of the meter.

RULED LINE: Turns the display of guide lines on the meter on/off.

INDEX COLOR: Sets the color of the index.

INDEX WIDTH: Sets the width of the index.

MARKER WIDTH: Sets the width of the marker.

To set the adjustment sensitivity and display content

You can set the adjustment sensitivity and configure the display in the adjusted state using ADJUSTED SIGN on the <FOCUS POSITION METER2> page.

SENSE: Sets the adjustment sensitivity. Increasing the value increases the sensitivity (making determination of adjusted state more precise).

NAME DISP: Turns the display of the marker name in the adjusted state on/off (DISPLAY screen only).

FRAME DISP: Turns the display of a color frame (adjustment frame) on the screen in the adjusted state on/off.

FRAME WIDTH: Sets the width of the adjustment frame.

To configure the marker display settings

You can set the marker display using MARKER CONFIG on the <FOCUS POSITION METER2> page.

REG: Registers a marker at the index position.

DISP: Turns the marker display on/off.

COLOR: Sets the color of the marker. This also sets the color of the adjustment frame.

NAME: Sets the name of the marker.

POS: Adjusts the marker position manually.

4 Turn the MENU SEL knob/ENTER button to display the desired setting and press the MENU SEL knob/ ENTER button.

5 To finish the adjustment, set the DISPLAY switch to OFF to exit Menu mode.

Marker registration

You can register a marker for the focus position meter using RET/ASSIGNABLE buttons A, B, and C.

When HDLA is attached, you can register a marker for the focus position meter using the VF OUT switch. Marker 1 is registered using the R switch, marker 2 by the G switch, and marker 3 by the B switch. Setting a switch to ON registers a marker at the current index position (same function as REG on the <FOCUS POSITION METER2> page). Setting a switch to OFF turns the marker display off (same as setting DISP on the <FOCUS POSITION METER2> page to OFF).

To register a marker for the focus position meter using the VF OUT switch

Set VF OUT SW to FOCUS POSITION METER on the <SWITCH ASSIGN1> page in the OPERATION menu.

Setting the VF Dynamic Contrast Function

Emphasizing the contrast in the image on the viewfinder screen makes it easier to check the focusing condition for high brightness areas and for subjects with low contrast levels.

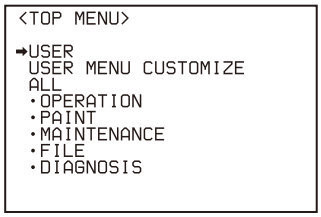
1 Turn on the camera.

2 Set the DISPLAY switch to MENU while holding the MENU SEL knob/ENTER button pressed.

The camera enters Menu mode, and "TOP" is displayed at the upper right corner of the screen.

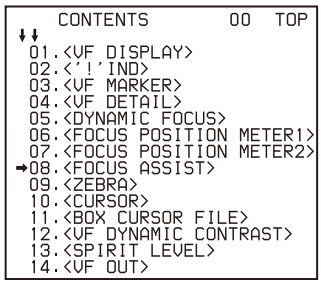
3 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to "TOP" and press the MENU SEL knob/ENTER button.

The TOP MENU screen appears.



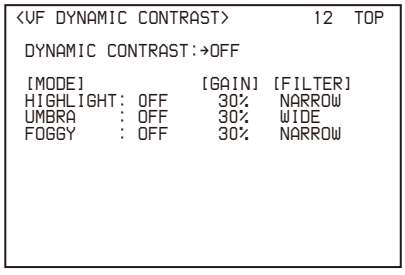
4 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to OPERATION and press the MENU SEL knob/ENTER button.

The CONTENTS page of the OPERATION menu is displayed.



5 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to <VF DYNAMIC CONTRAST> and press the MENU SEL knob/ENTER button.

The <VF DYNAMIC CONTRAST> page is displayed.



6 Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) to the item to be set and press the MENU SEL knob/ENTER button.

To use the VF dynamic contrast signal

Set DYNAMIC CONTRAST to ON to add the contrast signal in the image.

MODE: Select the contrast signal addition mode. HIGHLIGHT emphasizes the contrast of the high brightness range. UMBRA emphasizes the contrast of the low brightness range. FOGGY emphasizes the contrast of the image which is hazy and in low contrast.

GAIN: Adjust in the range of 0 to 100%.

FILTER: Adjust the selection range of the contrast extraction target pixel.

Notes

- FOGGY cannot be set to ON at the same time as HIGHLIGHT or UMBRA.
- If HIGHLIGHT or UMBRA is set to ON, FOGGY is set to OFF (fixed). If FOGGY is set to ON, HIGHLIGHT and UMBRA are set to OFF (fixed).

7 Turn the MENU SEL knob/ENTER button to display the desired setting and press the MENU SEL knob/ ENTER button.

8 To finish the adjustment, set the DISPLAY switch to OFF to exit Menu mode.

Setting the HDR Look Function

This function allows you to select the Look (image creation) setting when outputting the image captured by the camera as an HDR image on a display using the following three options.

Live: Vivid HDR image with wide dynamic range, high contrast and color development, while maintaining the Look affinity of an SDR image.

Mild: HDR image with more subdued contrast and color development than Live.

Natural: HDR image with HLG original Look (lower sensitivity setting, less noise, and moderate coloring). (This setting can be selected only when the output signal OETF setting is HLG)

The function is configured on the <OUTPUT FORMAT> page.

Setting the Camera Outputs

You can specify video signals directly output from the camera, with menu operations.
You can display the signal name by attaching a label (supplied) for the configured output signal name to the connector label area.

Notes

- The MAIN (camera picture), RET (return video), or VF (the same picture as that displayed on the viewfinder screen) setting is common to SD-SDI and VBS. Different signals cannot be output.
- The output from the SDI MONI connector is 1080i, even if the format setting is 720P.

Outputting the signal being shot (camera picture)

The same textual information as that displayed on the viewfinder screen can be added to the output signal by setting CHARACTER to “ON” on the <SDI OUT> or <TEST OUT> page.

To output as HD-SDI

Menu page	Item	Setting
<SDI OUT>	SDI-MONI OUT	MAIN

To output as SD-SDI

Menu page	Item	Setting
<SDI OUT>	SDI-MONI OUT	SD-SDI
	DOWN CONVERTER SELECT	MAIN

To output as VBS

Menu page	Item	Setting
<TEST OUT>	OUTPUT	VBS
	DOWN CONVERTER SELECT	MAIN

Constantly outputting a return video

- When a camera control unit is connected, one of the signals being supplied to the camera control unit can be output from the camera.
- The last selected return signal is output.
- The same textual information as that displayed on the viewfinder screen can be added to the output signal by setting CHARACTER to “ON” on the <SDI OUT> or <TEST OUT> page.

To output as HD-SDI

Menu page	Item	Setting
<SDI OUT>	SDI-MONI OUT	RET

To output as SD-SDI

Menu page	Item	Setting
<SDI OUT>	SDI-MONI OUT	SD-SDI
	DOWN CONVERTER SELECT	RET

To output as VBS

Menu page	Item	Setting
<TEST OUT>	OUTPUT	VBS
	DOWN CONVERTER SELECT	RET

Outputting the same image as a viewfinder

- With HD-SDI, you can obtain a signal that includes the same information as that being displayed on the viewfinder screen according to the settings of the VF MARKER, CHARACTER, VF DETAIL, ZEBRA, etc. The ON/OFF or other settings for adding information are common to those for the viewfinder. The output is synchronized with switching among Y, R, G, and B or switching to a return signal.
- With SD-SDI or VBS, the output is synchronized only with switching between a return signal and the camera image. It does not correspond to switching among Y, R, G, and B. Information other than CHARACTER (such as VF MARKER, VF DETAIL, ZEBRA) cannot be added to the output.

Note

With the settings for outputting the same image as a viewfinder, the output is 1080i, even if the format setting is 720P.

To output as HD-SDI

Menu page	Item	Setting
<SDI OUT>	SDI-MONI OUT	VF

To output as SD-SDI

Menu page	Item	Setting
<SDI OUT>	SDI-MONI OUT	SD-SDI
	DOWN CONVERTER SELECT	VF

To output as VBS

Menu page	Item	Setting
<TEST OUT>	OUTPUT	VBS
	DOWN CONVERTER SELECT	VF

Outputting 3G/6G/12G-SDI (HDC5500/5500V)

The SDI 1 output and SDI 2 output form 3G/6G/12G-SDI output.

For details, see "SDI output format with master frequency of 1/1.001" (page 89) or "SDI output format with master frequency of 1/1.000" (page 103).

Outputting 3G-SDI (HDC3500/3500V)

The SDI 1 output and SDI 2 output form 3G-SDI output.

To output in 1080/59.94P or 1080/50P

Menu page	Item	Setting
<OUTPUT FORMAT>	ACTIVE LINE	1080
	(Format)	59.94P or 50P
<SDI OUT>	SDI-1 SDI-2	MAIN (3G) LEVEL-A or LEVEL-B

Notes

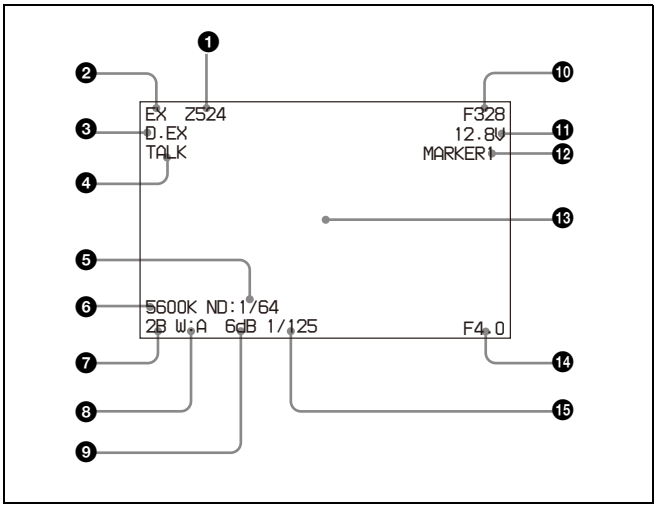
- HZC-PRV50/PRV50M/PRV50W camera operating software (option) is required for 3G-SDI output.
- Output as standard when HKC-TR37 is installed.

Viewfinder Screen Status Display

Besides the video image, the viewfinder can display text and messages showing the camera settings and operation status, as well as items such as a center marker or safety zone marker.

When the DISPLAY switch is set to DISPLAY

Items set to ON using the menu or related switches will be displayed on the upper and lower edges of the screen.



❶ Zoom position
Indicates the approximate position of the zoom lens variator between wide angle (0) and telephoto (99).

❷ Lens extender
"EX" is displayed when a lens extender is in use.

❸ Digital extender
"D.EX" is displayed when a digital extender is in use.

❹ TALK indicator
Displayed when the intercom microphone is set to ON.

❺ ND filter indicator
Displays the transmittance when using a variable ND filter.

❻ 5600K mode
Displayed when 5600K is set to ON.

❼ Filter
Displays the type of filter currently selected. The number (1, 2, 3, 4, 5) indicates the ND filter, and the letter (A, B, C, D, E) indicates the CC filter selection.

❽ White balance memory
Displays the currently selected white balance automatic adjustment memory.
W:A: The WHITE BAL switch is set to A.
W:B: The WHITE BAL switch is set to B.
W:P: The WHITE BAL switch is set to PRST.

❾ Gain value
Displays the video gain value (dB) set with the GAIN switch.

❿ Focus position
Shows the focus position of a zoom lens as a numeric value (0 to 255 (infinity)).

Note

Displayed only when a serial communication lens is connected.

⓫ Battery voltage
Displays the input voltage.

⓬ Focus position meter marker name
Displays the marker name of the focus position meter.

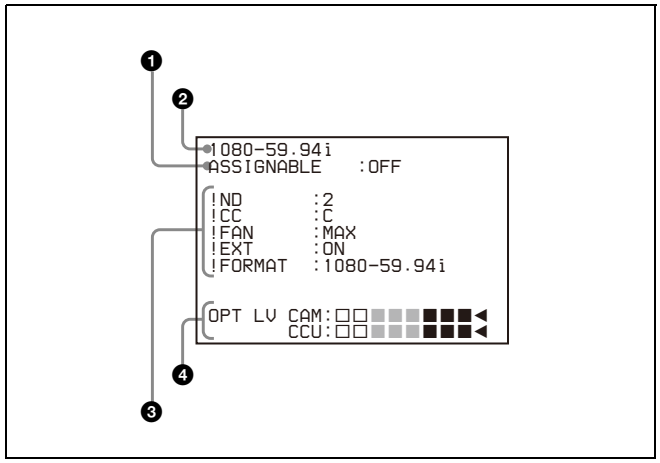
⓭ Setting change / adjustment process message area
This area is only used when the MESSAGE item of the menu is set to other than OFF.

⓮ F value
Indicates the lens F (iris opening) value.

⓯ Shutter/ECS
Displays the shutter/ECS status. Nothing is displayed if the electronic shutter is set to OFF.

When the STATUS/CANCEL switch is set to STATUS

When the STATUS/CANCEL switch is in the STATUS position, the status display is changed to show the following items.



❶ Assignable switch indicator
The function assigned to the assignable switch *(page 10)* is indicated.

For the functions that can be assigned, see OPERATION menu <SWITCH ASSIGN1> (page 59).

❷ Format indicator
The current video format is displayed.

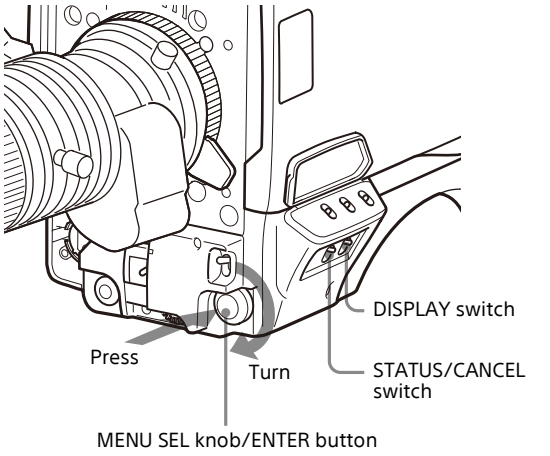
❸ '!' display area
This area is used to display non-standard status, using the <'!' IND> function. Display options can be set, using the menu.

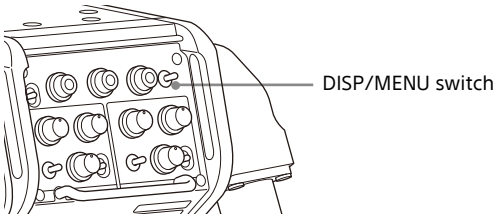
For details, see <'!' IND> (page 50) in the OPERATION menu.

❹ Light sensor level indicators (optical fiber transmission only)
This area shows the light sensor levels in segments.
CAM: Light sensor level at the CCU connector (*page 12*) of the camera
CCU: Light sensor level at the CAMERA connector of the CCU

Menu Operations

The menus displayed on the viewfinder screen enable various settings of the camera.
The following controls are used to operate the menus.





Starting Menu Operations

To display a menu page

Set the DISPLAY switch from OFF to MENU.
You can also display the menu by setting the DISP/MENU switch on the rear panel to MENU.
The menu page that was last operated will be displayed. (If it is the first time, the CONTENTS page of the OPERATION menu will be displayed.)

To display the TOP MENU screen

If you set the DISPLAY switch from OFF to MENU while holding the MENU SEL knob/ENTER button pressed, "TOP" is displayed at the upper right corner of the screen. Selecting it displays the TOP MENU screen, which lists the available menus, and you can select the menus on this screen.

TOP MENU screen

```
<TOP MENU>

➡USER
 USER MENU CUSTOMIZE
 ALL
 ·OPERATION
 ·PAINT
 ·MAINTENANCE
 ·FILE
 ·DIAGNOSIS
```

To disable the "TOP" indication
Turn the power once off then on again, or set the DISPLAY switch from OFF to MENU while holding the STATUS/CANCEL switch in the CANCEL position. This disables the TOP selection.

Available menus

USER menu

The USER menu can include menu pages selected from among the OPERATION, PAINT, MAINTENANCE, FILE, and DIAGNOSIS menus, for convenience. Changing, adding, and deleting pages can be performed with the USER MENU CUSTOMIZE menu.

USER MENU CUSTOMIZE menu

This menu allows you to edit the USER menu.

For details, see "Editing the USER Menu" (page 38).

ALL menu

This menu permits you to control all items of the OPERATION menu, PAINT menu, MAINTENANCE menu, FILE menu, and DIAGNOSIS menu as a single menu.

OPERATION menu

This menu contains items for camera operators to operate the camera. It mainly permits viewfinder, intercom, and switch settings.

PAINT menu

This menu contains items for making detailed image adjustments while using a waveform monitor to monitor the waveforms output from the camera. Support of a video engineer is usually required to use this menu.
Although you can also use an external remote control panel or master setup unit to set the items on this menu, the menu is effective when using the camera by itself outdoors.

MAINTENANCE menu

This menu contains items for performing camera maintenance operations, such as changing the system or setting infrequently used "paint" items.

FILE menu

This menu is for performing file operations, such as writing or clearing the reference file.

DIAGNOSIS menu

This menu enables you to confirm the self-diagnostic information.

To select a menu on the TOP MENU screen

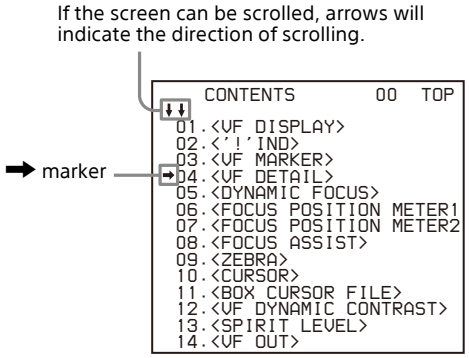
1 **Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) with the desired menu indication.**

2 **Press the MENU SEL knob/ENTER button.**
The CONTENTS page or the last operated page of the selected menu is displayed.

Selecting Pages

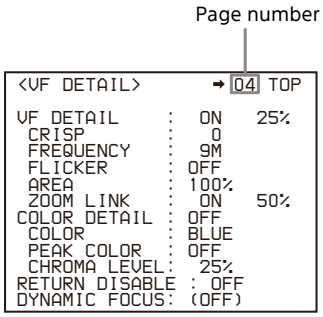
When selecting a page from a CONTENTS page

Example: CONTENTS page of the OPERATION menu



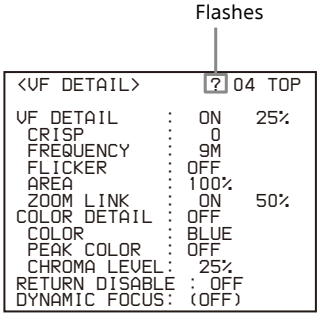
Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) with the desired page indication, then press the MENU SEL knob/ENTER button.

The selected page is displayed.



To change the displayed page

1 **Check that the arrow marker (➡) is located at the left of the page number, then press the MENU SEL knob/ENTER button.**
The arrow marker (➡) will change to a flashing "**?**" mark.

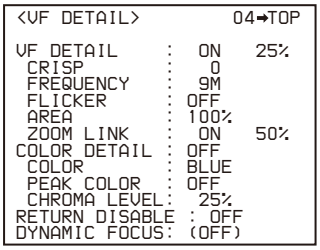


2 **Turn the MENU SEL knob/ENTER button to flip through the pages.**

3 **When the desired page is displayed, press the MENU SEL knob/ENTER button.**
The "**?**" mark changes back to the arrow marker (➡), and operations with the displayed page are enabled.

To return to the TOP MENU screen

Align the arrow marker (➡) with "TOP" at the top right of the menu page then press the MENU SEL knob/ENTER button.



The TOP MENU screen appears.

Setting Menu Items

If a "**?**" mark is flashing at the left of the page number, press the MENU SEL knob/ENTER button to change it to the arrow marker (➡). Setting on the displayed page is enabled.

1 **Turn the MENU SEL knob/ENTER button to align the arrow marker (➡) with the desired item.**

2 **Press the MENU SEL knob/ENTER button.**
The arrow marker (➡) will change to a flashing "**?**" mark.

3 **Turn the MENU SEL knob/ENTER button to change the setting value.**
When the knob is rotated quickly, the values will change quickly; when rotated slowly, the values will change slowly.

To reset a changed value

If you press the STATUS/CANCEL switch toward CANCEL before pressing the MENU SEL knob/ENTER button, the setting will be returned to its previous value.

To interrupt settings

Set the DISPLAY switch to OFF to turn off the menu screen display.
The setting operation can be restarted by setting the DISPLAY switch back to MENU.

4 **Press the MENU SEL knob/ENTER button.**
The "**?**" mark changes back to the arrow marker (➡), and the new setting will be registered.

5 **To change other setting items on the same menu page, repeat steps 1 to 4.**

To specify a character string

When you press the MENU SEL knob/ENTER button with the arrow marker (➡) pointing to an item for which a character string, such as a file ID, is to be specified, a cursor and the list of selectable characters are displayed.
The displayed cursor can be moved by rotating the MENU SEL knob/ENTER button.

1 **Set the cursor to the position where you wish to enter a character, then press the MENU SEL knob/ENTER button.**
Another cursor appears on the character list.

2 **Set the cursor to the character to be entered and press the MENU SEL knob/ENTER button.**
Repeat steps **1** and **2**.

By selecting INS on the line below the character list, you can enter a space at the cursor position.

Selecting DEL deletes the character at the cursor position.

You can return to step **1** without changing the character by selecting RET.

If you enter the permitted maximum number of characters (up to the stop mark at the right end of the line), the cursor moves to ESC on the line below the character list.

To register the new string you have set, select END and press the MENU SEL knob/ENTER button.

To restore the previous string, select ESC and press the MENU SEL knob/ENTER button.

To return a menu item to its standard value

Select the menu item to be returned to its standard value then hold the MENU SEL knob/ENTER button pressed for 3 seconds while the arrow marker (➡) is displayed.

To end menu operations

Set the DISPLAY switch to OFF.

Editing the USER Menu

You can select desired pages and items from the OPERATION, PAINT, MAINTENANCE, FILE, and DIAGNOSIS menus and register them to the USER menu.
If you specify pages or items frequently used for the USER menu, you can easily call and use them.

The following pages are included on the factory-set USER menu:

Menu page	USER menu No.	Source menu / page No.	
<VF OUT>	U01	OPERATION	14
<VF DETAIL>	U02	OPERATION	04
<FOCUS ASSIST>	U03	OPERATION	08
<VF DISPLAY>	U04	OPERATION	01
<'!' IND>	U05	OPERATION	02
<VF MARKER>	U06	OPERATION	03
<CURSOR>	U07	OPERATION	10
<ZEBRA>	U08	OPERATION	09
<SWITCH ASSIGN1>	U09	OPERATION	19
<SWITCH ASSIGN2>	U10	OPERATION	20
<HEADSET MIC>	U11	OPERATION	26
<OUTPUT FORMAT>	U12	MAINTENANCE	M13
<TEST OUT>	U13	MAINTENANCE	M14
<SDI OUT>	U14	MAINTENANCE	M15
<ROM VERSION>	U15	DIAGNOSIS	D03

For the items on each page, see the corresponding source menu page in the table in "Menu List" (page 41).

The USER MENU CUSTOMIZE menu allows you to configure a USER menu that consists only of pages and items that you need, by your adding, deleting or replacing pages.

Editing by items

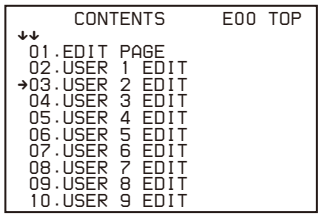
The USER MENU CUSTOMIZE menu allows you to add a new page to the USER menu and add desired items to the page. While the EDIT page contains factory-preset items, the USER 1 EDIT to USER 19 EDIT pages are all blank in their initial state. You can register up to 10 items, including blank lines, on each of these pages.

To add items to a page

Proceed as follows.

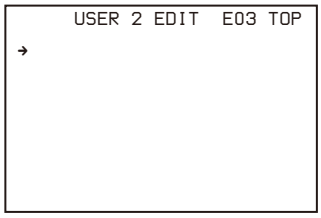
1 **Set the DISPLAY switch from OFF to MENU while holding the MENU SEL knob/ENTER button pressed.**
The TOP MENU screen appears.

2 **Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to "USER MENU CUSTOMIZE" then press the MENU SEL knob/ENTER button.**
If this is the first time the USER MENU CUSTOMIZE menu has been displayed, the CONTENTS page of the menu appears.

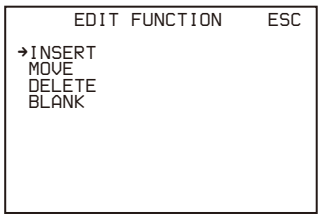


If the menu has been used before, the last accessed page appears.

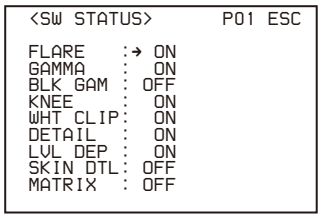
3 **If the CONTENTS page is displayed, turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to any of USER 1 EDIT to USER 19 EDIT then press the MENU SEL knob/ENTER button to display the page.**
If a different page is displayed, turn the MENU SEL knob/ENTER button until the desired page appears, then press the MENU SEL knob/ENTER button to select the page.
Example: When you select the USER 2 EDIT page



4 **Move the arrow marker (➡) to the item to be added (this operation is unnecessary if no item exists on the page, as shown in the figure in the previous step) then press the MENU SEL knob/ENTER button.**
The EDIT FUNCTION screen appears.



5 **Move the arrow marker (➡) to "INSERT" and press the MENU SEL knob/ENTER button.**
The page with the last item added appears.



6 **Add the items.**

① Turn the MENU SEL knob/ENTER button until the page that has the desired items appears then press the MENU SEL knob/ENTER button.

② Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to the desired item then press the MENU SEL knob/ENTER button.

The USER 2 EDIT page appears again, displaying the newly added item.

7 **Add the remaining items by repeating steps 4 to 6.**
You can add up to 10 items on one page.

To delete items from a page

Proceed as follows.

1 **Move the arrow marker (➡) to the item to be deleted, and press the MENU SEL knob/ENTER button.**
The EDIT FUNCTION screen appears.

2 **Select DELETE, then press the MENU SEL knob/ENTER button.**
The previously displayed page appears again, and the message "DELETE OK? YES➡NO" appears at the upper right.

3 **To delete, turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to "YES," and press the MENU SEL knob/ENTER button.**

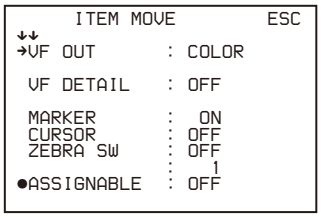
To change the order of items on a page

Proceed as follows.

1 **Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to the item to be moved then press the MENU SEL knob/ENTER button.**
The EDIT FUNCTION screen appears.

2 **Select MOVE then press the MENU SEL knob/ENTER button.**
The previously displayed page appears again.

3 **Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to the position where you wish to move the item then press the MENU SEL knob/ENTER button.**



The item selected in step **1** moves to the position above the item that you selected in step **3**.
In the above example, "ASSIGNABLE" is moved to the top and the other items are moved down one line.

To insert a blank line

Proceed as follows.

1 **Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to the item above which you wish to insert a blank line.**
The EDIT FUNCTION screen appears.

2 **Select BLANK, then press the MENU SEL knob/ENTER button.**
The previously displayed page appears again, and a blank line is inserted above the specified item.

Note

You cannot insert a blank line on a page where 10 items have already been registered.

Editing by pages

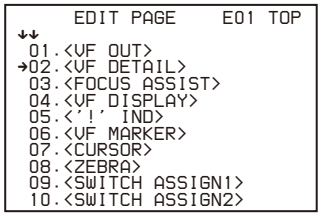
You can add a page to the USER menu, delete a page from the USER menu, or replace pages, using the EDIT PAGE of the USER MENU CUSTOMIZE menu.

To add a page

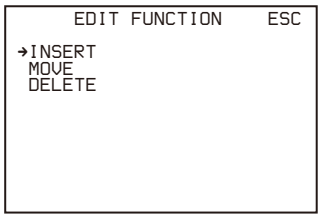
Proceed as follows.

1 **Select USER MENU CUSTOMIZE on the TOP MENU screen.**
If this is the first time the USER MENU CUSTOMIZE menu has been displayed, the CONTENTS page of the menu appears.
If the menu has been used before, the last accessed page appears.

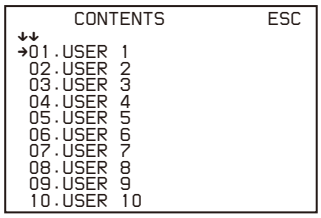
2 **If the CONTENTS page is displayed, turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to "EDIT PAGE" then press the MENU SEL knob/ ENTER button to display the EDIT PAGE screen.**
If a different page is displayed, turn the MENU SEL knob/ENTER button until the EDIT PAGE screen appears, then press the MENU SEL knob/ENTER button to select the page.



3 **Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to where you wish to add the page, then press the MENU SEL knob/ENTER button.**
The EDIT FUNCTION screen appears.



4 **Select INSERT, then press the MENU SEL knob/ENTER button.**
The selection screen appears.



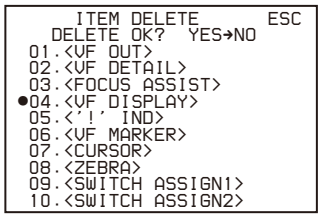
5 **Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to the desired page, then press the MENU SEL knob/ENTER button.**
This adds the new item above the item selected in step **3**.

To cancel addition of a page
Before pushing the MENU SEL knob/ENTER button in step **5**, turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to "ESC" at the top right of the screen, then press the MENU SEL knob/ENTER button.
The EDIT PAGE screen appears again.

To delete a page
Proceed as follows.

1 **On the EDIT PAGE screen of the USER MENU CUSTOMIZE menu, move the arrow marker (➡) to the page to be deleted, and press the MENU SEL knob/ENTER button.**
The EDIT FUNCTION screen appears.

2 **Select DELETE, then press the MENU SEL knob/ENTER button.**
The previously displayed page appears again, and the message "DELETE OK? YES➡NO" appears at the upper right.



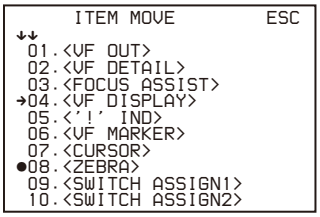
3 **To delete, turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to "YES," and press the MENU SEL knob/ENTER button.**

To move a page
Proceed as follows.

1 **Display the EDIT PAGE screen of the USER MENU CUSTOMIZE menu. Turn the MENU SEL knob/ENTER button to move the arrow marker (➡) to the page that you wish to move and press the MENU SEL knob/ENTER button.**
The EDIT FUNCTION screen appears.

2 **Select MOVE then press the MENU SEL knob/ENTER button.**
The EDIT PAGE screen appears again.

3 **Turn MENU SEL knob/ENTER button to move the arrow marker (➡) to the position to which you wish to move the page.**



4 **Press the MENU SEL knob/ENTER button.**
The page selected in step **1** is moved to the position selected in step **3**.
In the above example, <ZEBRA> moves to the "04" position, and the <VF DISPLAY> and following pages move down one line.

Menu List

This section shows the menus to be displayed on the viewfinder screen in tables.

- For the pages that have been registered in the USER menu at the factory, the USER menu page numbers are indicated in parenthesis in the No. column of the tables.
- A CONTENTS page (numbered 00) is also provided for each menu.
- The page numbers displayed below are an example. The page numbers shown are for a HDC5500V/3500V connected to a CCU, with HDVF-EL740/EL760 connected and HDLA attached.

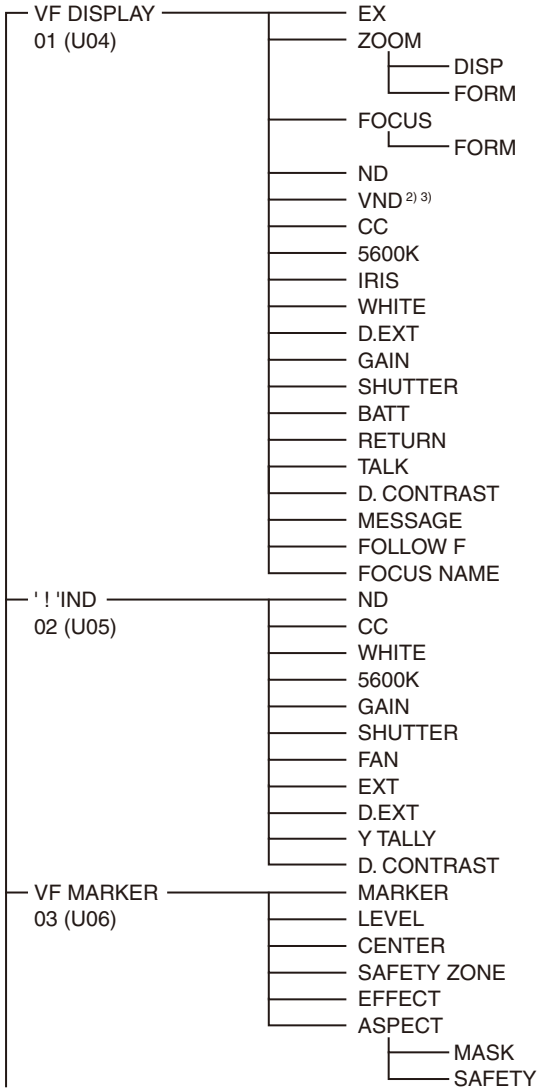
Legend

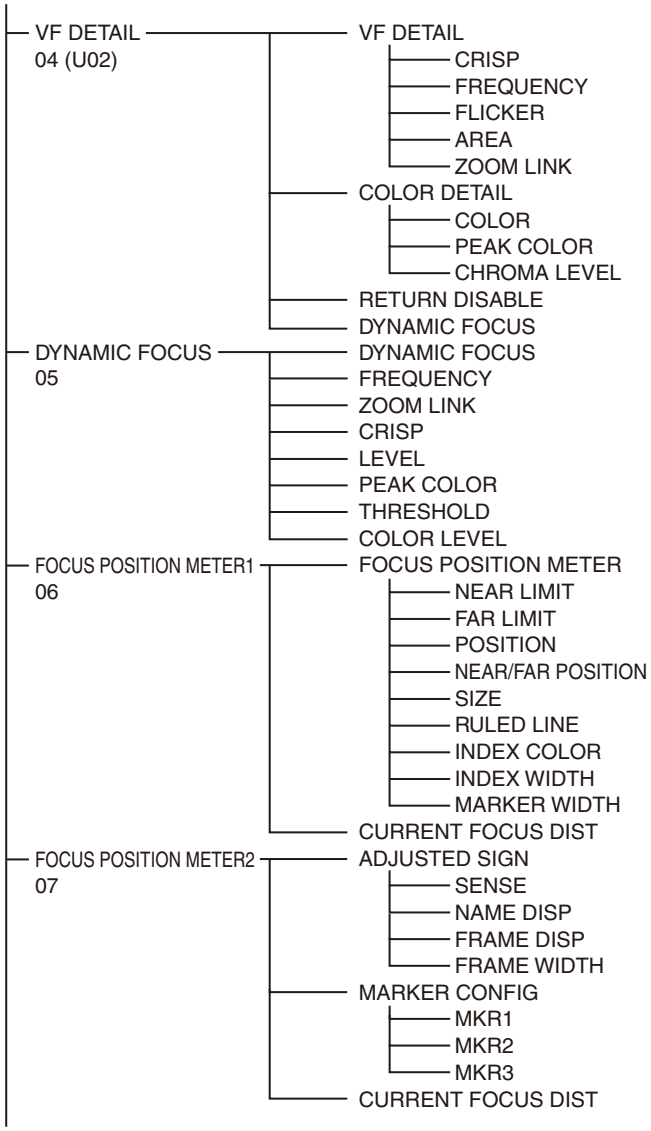
HDLA: HDLA-3500 series Large Lens Adaptor
CCU: HDCU5000/5500/3100/3170/3500 Camera Control Unit
Underlined values (e.g. ON, OFF, 0): Default settings
Execute using ENTER: Execute by pressing the MENU SEL knob/ ENTER button.

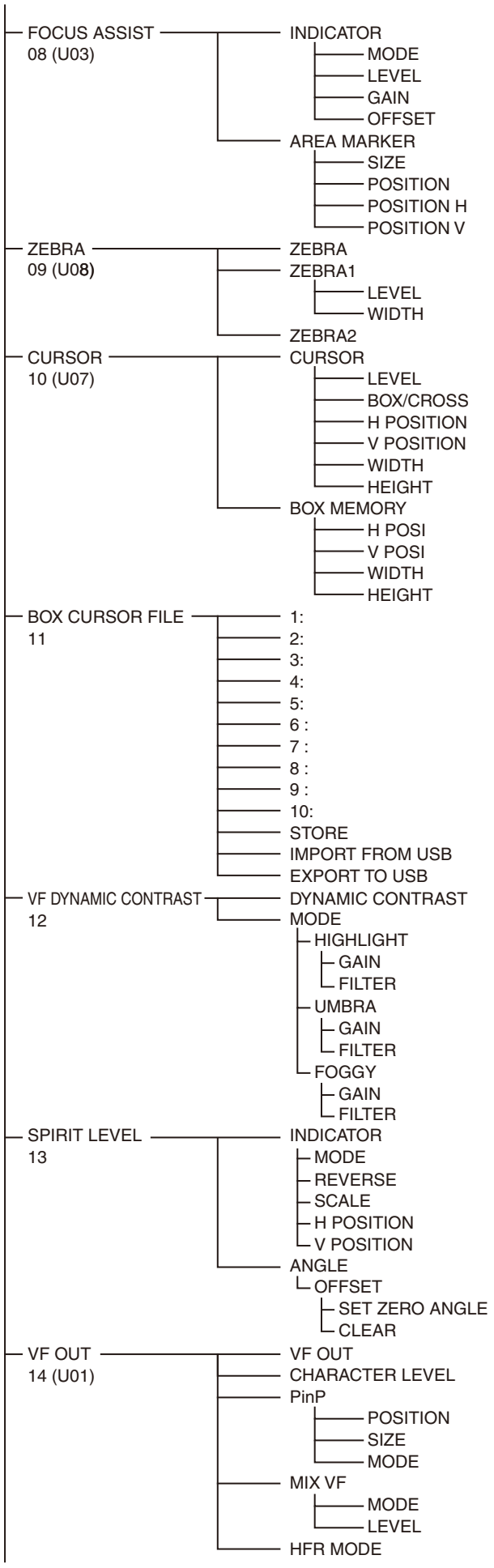
Menu Tree

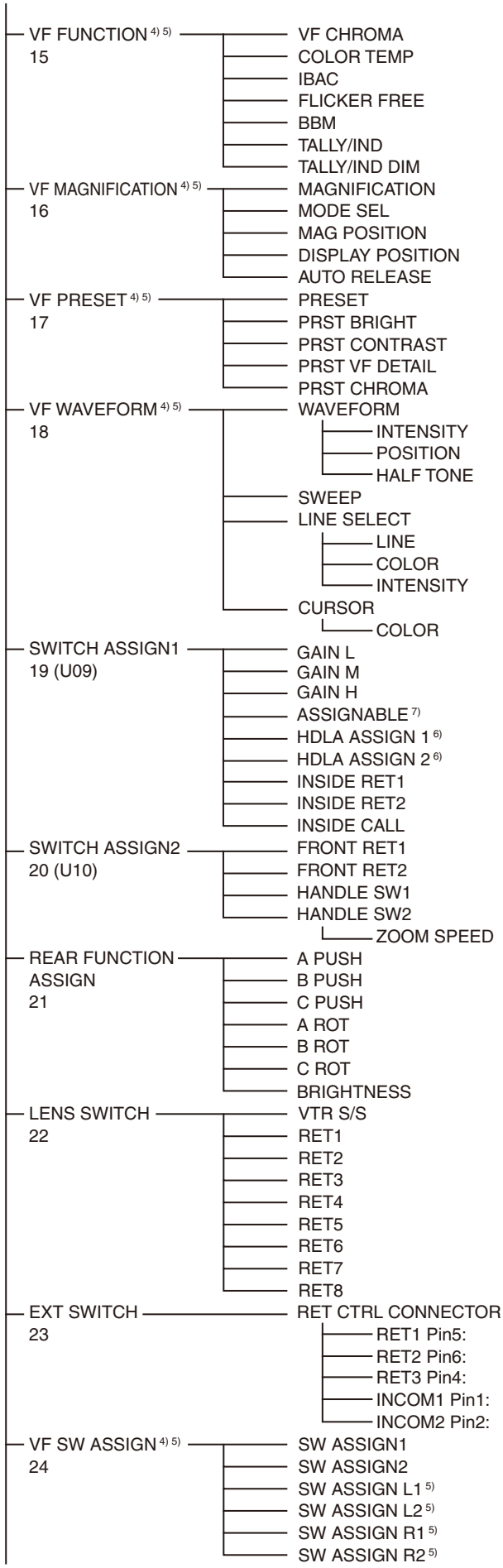
OPERATION menu

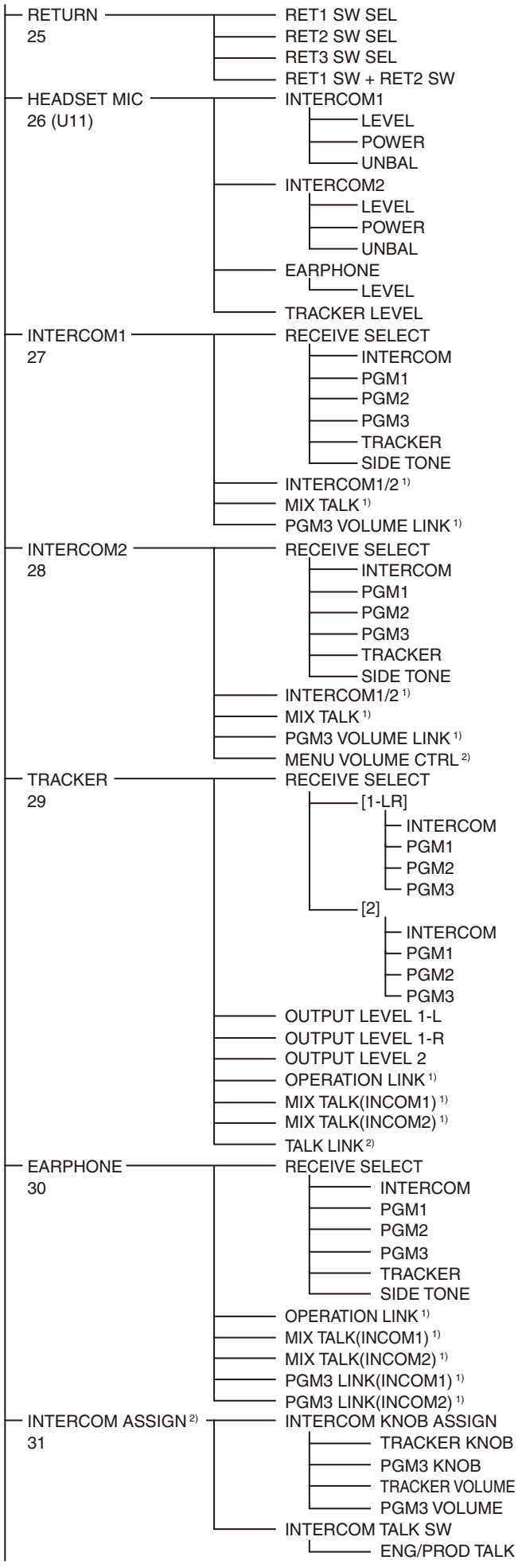
1) HDC5500/3500
2) HDC5500V/3500V
3) When HKC-VND50 is installed
4) When HDVF-EL740 (D-VF) is connected
5) When HDVF-EL760 (D-VF) is connected
6) When HDLA-3505 is attached
7) When HDLA-3505 is not attached






FOCUS ASSIST
08 (U03)
INDICATOR
MODE
LEVEL
GAIN
OFFSET
AREA MARKER
SIZE
POSITION
POSITION H
POSITION V
ZEBRA
09 (U08)
ZEBRA
ZEBRA1
LEVEL
WIDTH
ZEBRA2
CURSOR
10 (U07)
CURSOR
LEVEL
BOX/CROSS
H POSITION
V POSITION
WIDTH
HEIGHT
BOX MEMORY
H POSI
V POSI
WIDTH
HEIGHT
BOX CURSOR FILE
11
1:
2:
3:
4:
5:
6 :
7 :
8 :
9 :
10:
STORE
IMPORT FROM USB
EXPORT TO USB
VF DYNAMIC CONTRAST
12
DYNAMIC CONTRAST
MODE
HIGHLIGHT
GAIN
FILTER
UMBRA
GAIN
FILTER
FOGGY
GAIN
FILTER
SPIRIT LEVEL
13
INDICATOR
MODE
REVERSE
SCALE
H POSITION
V POSITION
ANGLE
OFFSET
SET ZERO ANGLE
CLEAR
VF OUT
14 (U01)
VF OUT
CHARACTER LEVEL
PinP
POSITION
SIZE
MODE
MIX VF
MODE
LEVEL
HFR MODE

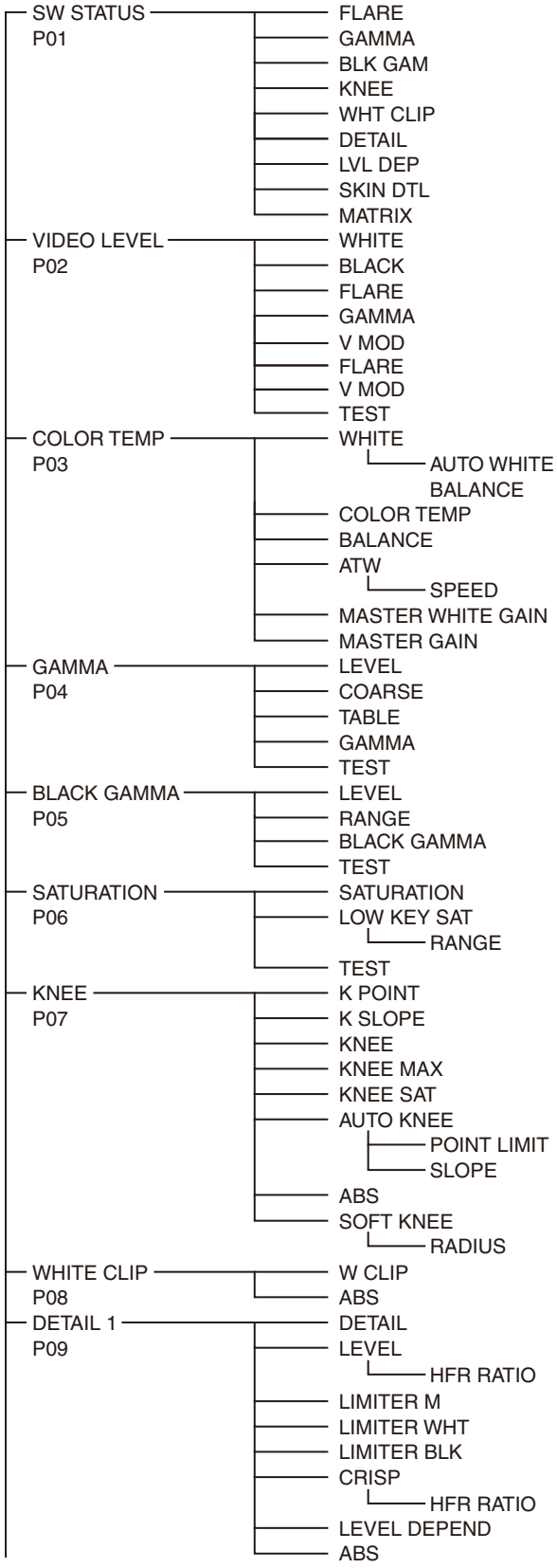

VF FUNCTION 4) 5)
15
VF CHROMA
COLOR TEMP
IBAC
FLICKER FREE
BBM
TALLY/IND
TALLY/IND DIM
VF MAGNIFICATION 4) 5)
16
MAGNIFICATION
MODE SEL
MAG POSITION
DISPLAY POSITION
AUTO RELEASE
VF PRESET 4) 5)
17
PRESET
PRST BRIGHT
PRST CONTRAST
PRST VF DETAIL
PRST CHROMA
VF WAVEFORM 4) 5)
18
WAVEFORM
INTENSITY
POSITION
HALF TONE
SWEEP
LINE SELECT
LINE
COLOR
INTENSITY
CURSOR
COLOR
SWITCH ASSIGN1
19 (U09)
GAIN L
GAIN M
GAIN H
ASSIGNABLE 7)
HDLA ASSIGN 1 6)
HDLA ASSIGN 2 6)
INSIDE RET1
INSIDE RET2
INSIDE CALL
SWITCH ASSIGN2
20 (U10)
FRONT RET1
FRONT RET2
HANDLE SW1
HANDLE SW2
ZOOM SPEED
REAR FUNCTION ASSIGN
21
A PUSH
B PUSH
C PUSH
A ROT
B ROT
C ROT
BRIGHTNESS
LENS SWITCH
22
VTR S/S
RET1
RET2
RET3
RET4
RET5
RET6
RET7
RET8
EXT SWITCH
23
RET CTRL CONNECTOR
RET1 Pin5:
RET2 Pin6:
RET3 Pin4:
INCOM1 Pin1:
INCOM2 Pin2:
VF SW ASSIGN 4) 5)
24
SW ASSIGN1
SW ASSIGN2
SW ASSIGN L1 5)
SW ASSIGN L2 5)
SW ASSIGN R1 5)
SW ASSIGN R2 5)

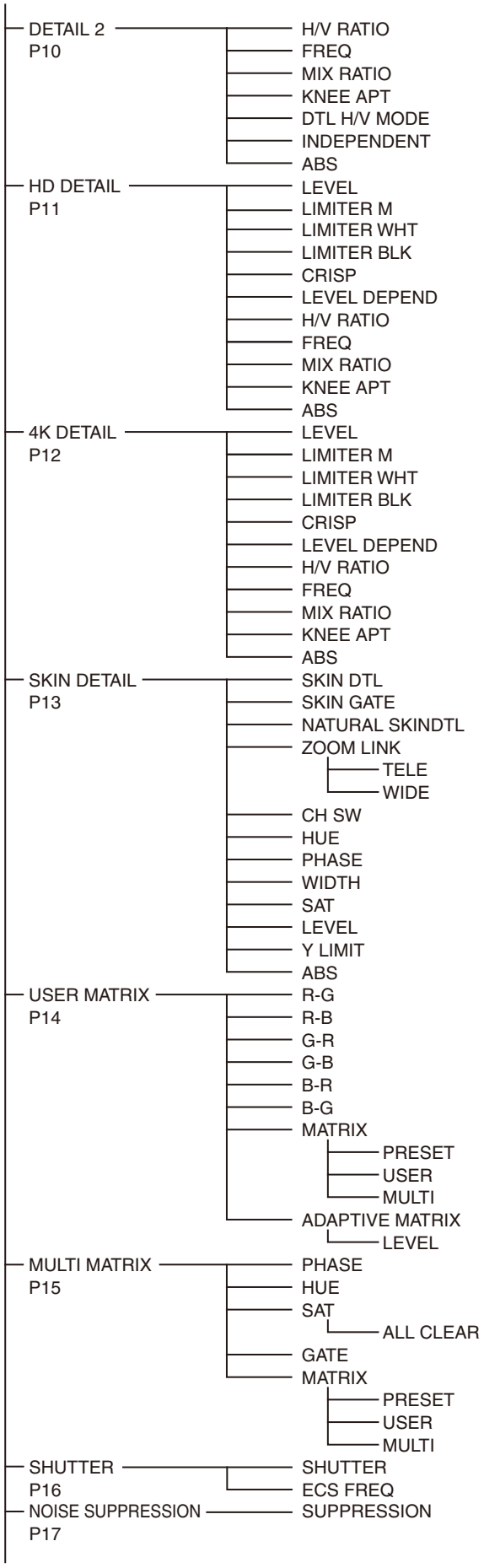


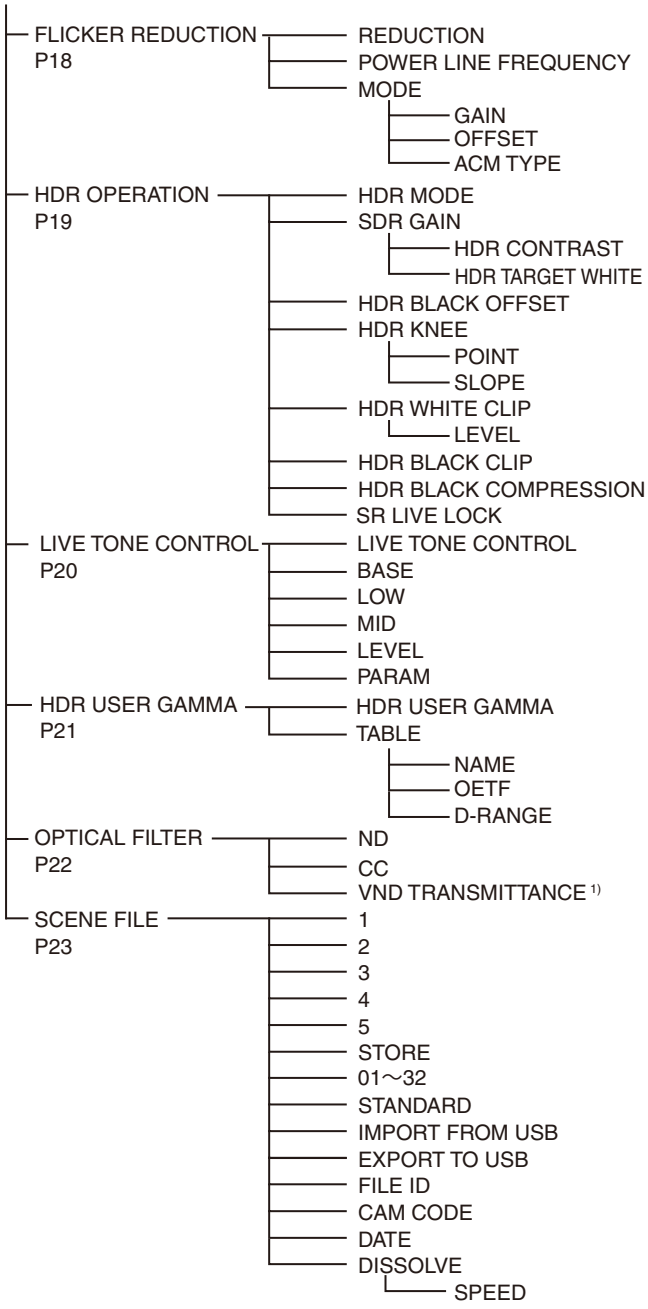
- INTERCOM and MIX TALK sub menu items are displayed on the HDC5500/3500 (UCJ) model only.
- On the HDC5500/3500 (CE) model, the INTERCOM sub menu item is replaced by separate ENG and PROD menu items. On the HDC5500/3500 (UCJ) model, INTERCOM is replaced by separate ENG and PROD items, depending on the setting of the Line select / Receive MIX select switch.

PAINT menu

1) HDC5500V/3500V or when HKC-VND50 is installed







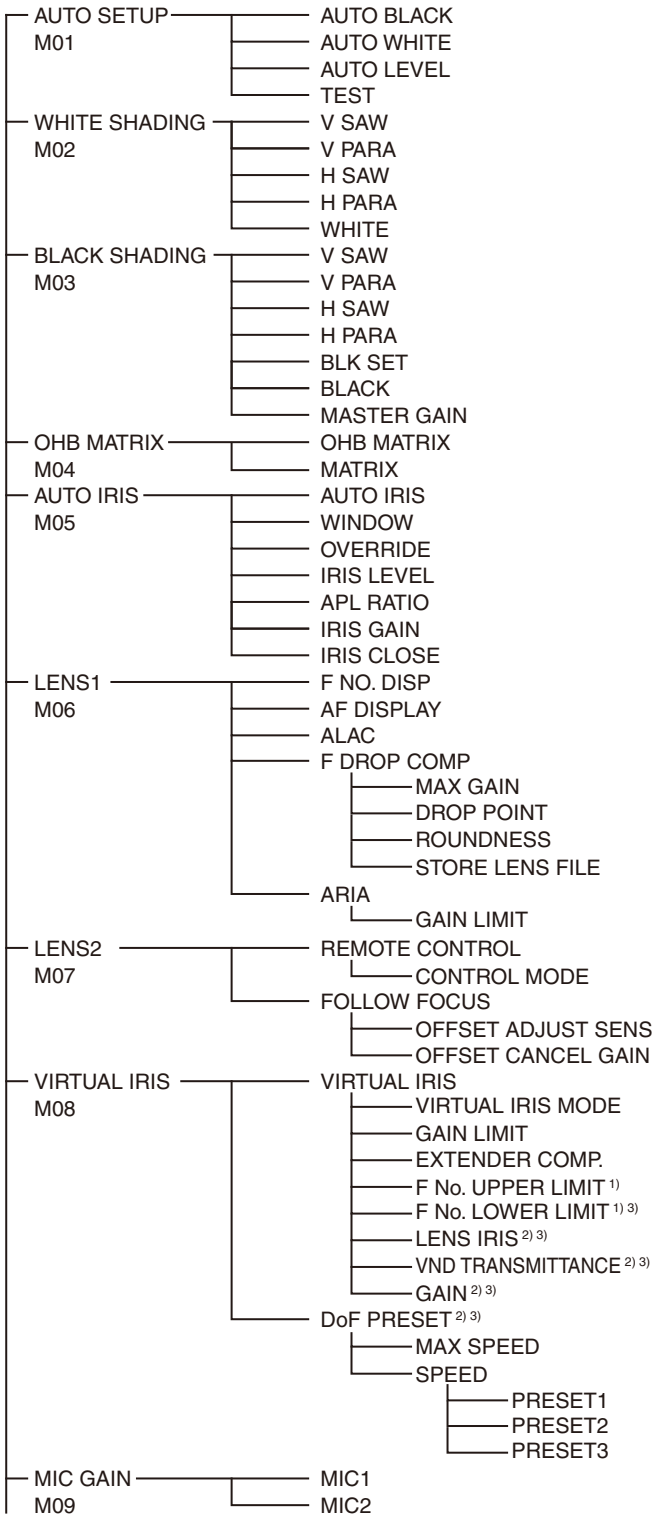
MAINTENANCE menu

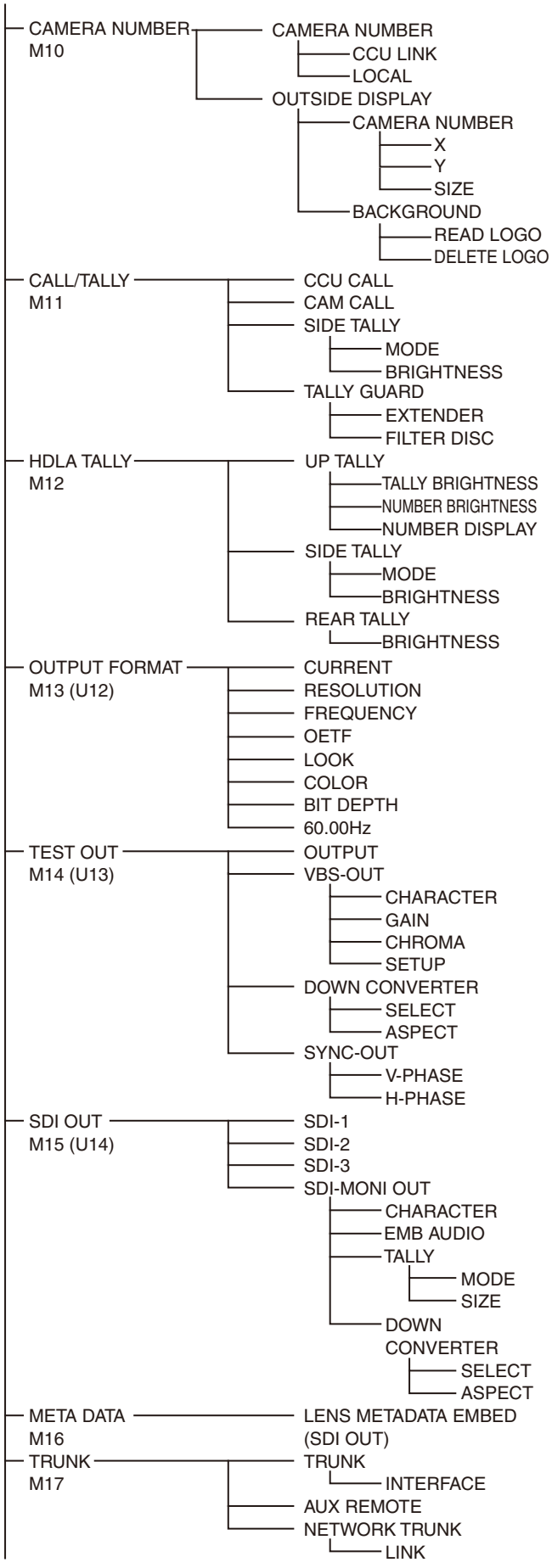
1) Displayed when VIRTUAL IRIS MODE is set to NORMAL

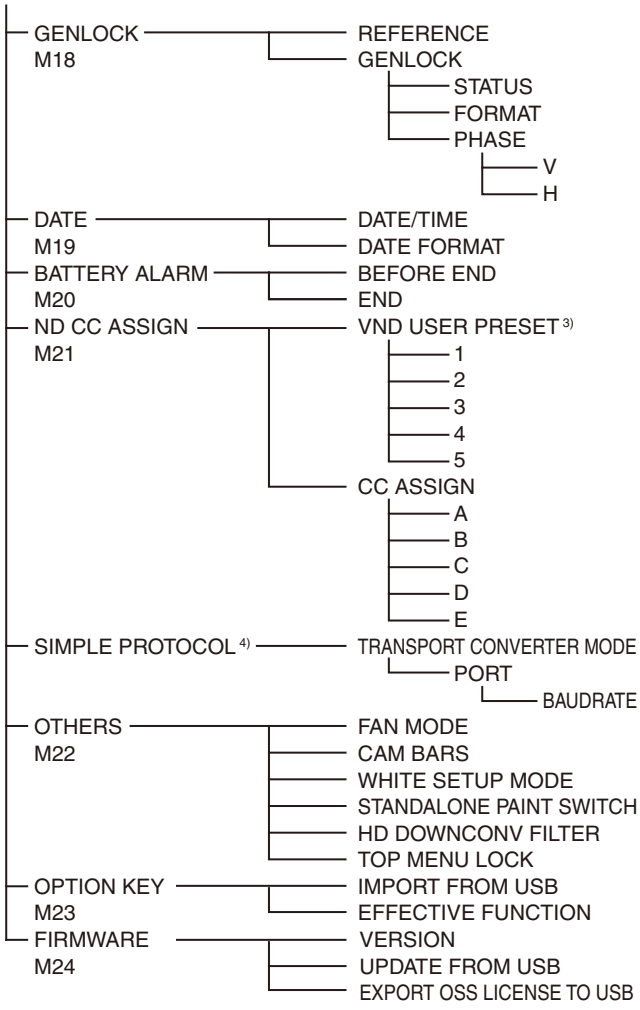
2) Displayed when VIRTUAL IRIS MODE is set to DoF CTRL

3) HDC5500V/3500V or when HKC-VND50 is installed

4) In standalone mode

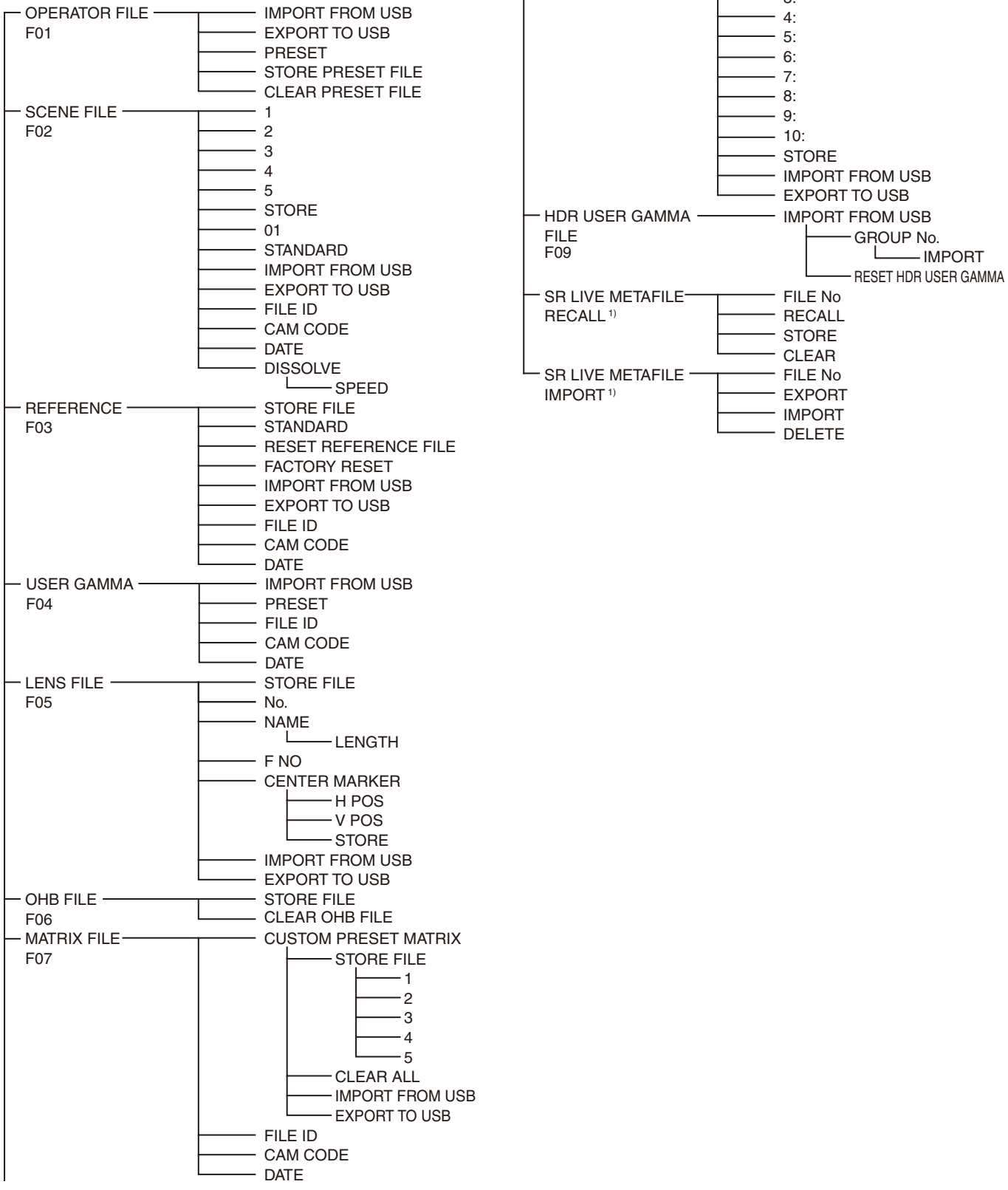



CAMERA NUMBER
M10
CAMERA NUMBER
CCU LINK
LOCAL
OUTSIDE DISPLAY
CAMERA NUMBER
X
Y
SIZE
BACKGROUND
READ LOGO
DELETE LOGO
CALL/TALLY
M11
CCU CALL
CAM CALL
SIDE TALLY
MODE
BRIGHTNESS
TALLY GUARD
EXTENDER
FILTER DISC
HDLA TALLY
M12
UP TALLY
TALLY BRIGHTNESS
NUMBER BRIGHTNESS
NUMBER DISPLAY
SIDE TALLY
MODE
BRIGHTNESS
REAR TALLY
BRIGHTNESS
OUTPUT FORMAT
M13 (U12)
CURRENT
RESOLUTION
FREQUENCY
OETF
LOOK
COLOR
BIT DEPTH
60.00Hz
TEST OUT
M14 (U13)
OUTPUT
VBS-OUT
CHARACTER
GAIN
CHROMA
SETUP
DOWN CONVERTER
SELECT
ASPECT
SYNC-OUT
V-PHASE
H-PHASE
SDI OUT
M15 (U14)
SDI-1
SDI-2
SDI-3
SDI-MONI OUT
CHARACTER
EMB AUDIO
TALLY
MODE
SIZE
DOWN CONVERTER
SELECT
ASPECT
META DATA
M16
LENS METADATA EMBED (SDI OUT)
TRUNK
M17
TRUNK
INTERFACE
AUX REMOTE
NETWORK TRUNK
LINK


GENLOCK
M18
REFERENCE
GENLOCK
STATUS
FORMAT
PHASE
V
H
DATE
M19
DATE/TIME
DATE FORMAT
BATTERY ALARM
M20
BEFORE END
END
ND CC ASSIGN
M21
VND USER PRESET 3)
1
2
3
4
5
CC ASSIGN
A
B
C
D
E
SIMPLE PROTOCOL 4)
TRANSPORT CONVERTER MODE
PORT
BAUDRATE
OTHERS
M22
FAN MODE
CAM BARS
WHITE SETUP MODE
STANDALONE PAINT SWITCH
HD DOWNCONV FILTER
TOP MENU LOCK
OPTION KEY
M23
IMPORT FROM USB
EFFECTIVE FUNCTION
FIRMWARE
M24
VERSION
UPDATE FROM USB
EXPORT OSS LICENSE TO USB

FILE menu

1) In standalone mode



DIAGNOSIS menu

1) When HKC-TR37 is installed

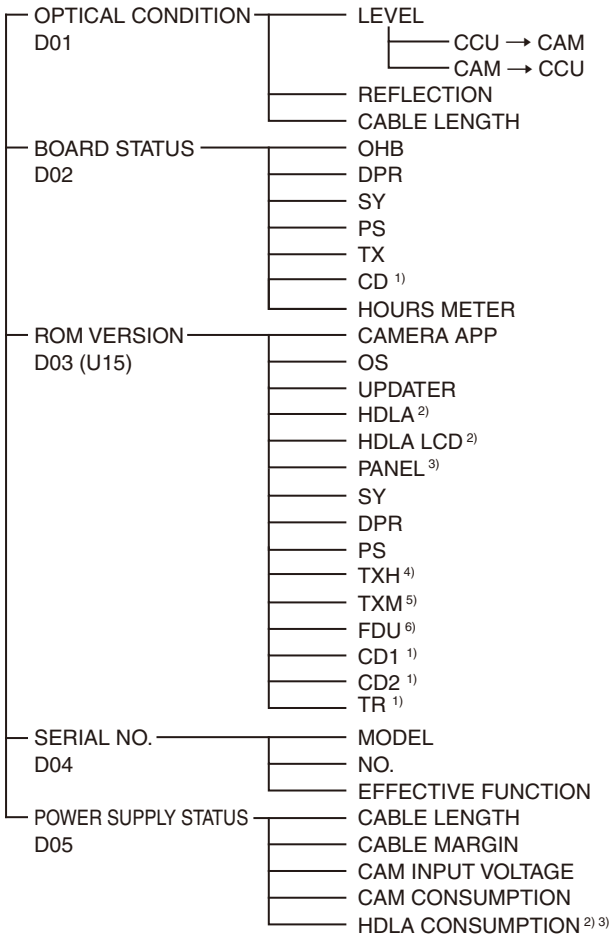
2) When HDLA-3505 is attached

3) When HDLA-3501 is attached

4) HDC5500/5500V

5) HDC3500/3500V

6) HDC5500V/3500V or when HKC-VND50 is installed



OPERATION Menu

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF DISPLAY> 01 (U04)	EX	**ON**, OFF, 3S	
	ZOOM	ON, **OFF**, 3S	
	DISP	**LEFT**, RIGHT	
	FORM	**999**, mm, (999)	Sets the ZOOM display format. **999:** Displayed in the range 0 to 999 (no units). **mm**: Displayed in millimeters. mm display is enabled only when using a serial lens. "999" (fixed) is displayed when not using a serial lens.
	FOCUS	ON, **OFF**, 3S	
	FORM	**999**, m, ft, (999)	Sets the FOCUS display format. **999:** Displayed in the range 0 to 999 (no units). **m**: Displayed in meters. **ft**: Displayed in feet. m, ft display are enabled only when using a serial lens. "999" (fixed) is displayed when not using a serial lens.
	ND	**ON**, OFF, 3S	
	VND	ON, **OFF**, 3S	Displayed only on the HDC5500V/3500V or when HKC-VND50 is installed.
	CC	**ON**, OFF, 3S	
	5600K	**ON**, OFF, 3S	
	IRIS	**ON**, OFF, 3S	
	WHITE	ON, **OFF**, 3S	
	D.EXT	**ON**, OFF, 3S	
	GAIN	**ON**, OFF, 3S	
	SHUTTER	**ON**, OFF, 3S	
	BATT	ON, **OFF**, 3S	
	RETURN	**ON**, OFF, 3S	
	TALK	**ON**, OFF, 3S	
	D. CONTRAST	ON, **OFF**, 3S	
	MESSAGE	**ALL**, WRN, AT, OFF	**ALL:** Displays all messages. **WRN:** Displays warning messages and higher. **AT:** Displays Auto Setup messages and higher.
	FOLLOW F	ON, **OFF**, 3S	
	FOCUS NAME	OFF, 1S, 3S, 5S, **ON**	Sets whether to show/hide the marker name and sets the display time.

OPERATION			
Page name **Page No.**	**Item**	**Settings**	**Description**
<'!' IND> 02 (U05)	ND	**ON**, OFF	[IND]: Turns the '!' indication *(see page 35)* on/off. [NORMAL]: Specifies the conditions under which the '!' indication is not to be displayed even if [IND] is ON. (By specifying the standard or normal conditions here, non-standard or abnormal conditions can be found with the '!' indication on the viewfinder screen.) Example: With the default setting of ND, the '!' indication is displayed when an ND filter other than 1 is selected. ---: When a CCU is connected (cannot be changed)
		1, 2, 3, 4, 5, 6, 7, 8, 9 (combination allowed)	
	CC	**ON**, OFF	
		B, C, D (combination allowed)	
	WHITE	**ON**, OFF, ---	
		P, **A**, **B** (combination allowed)	
	5600K	**ON**, OFF, ---	
		ON, **OFF**	
	GAIN	**ON**, OFF, ---	
		L, M, H (combination allowed)	
	SHUTTER	**ON**, OFF, ---	
		ON, **OFF**	
	FAN	**ON**, OFF	
		AUTO1, AUTO2, MIN, MAX	
	EXT	**ON**, OFF	
	D.EXT	**ON**, OFF	
	Y TALLY	**ON**, OFF	
	D. CONTRAST	**ON**, OFF	
<VF MARKER> 03 (U06)	MARKER	**ON**, OFF, (ON), (OFF)	Turns the display of all markers on/off. Settings in ( ): When HDLA-3505 is attached (cannot be changed)
		WHITE, BLACK, DOT	
	LEVEL	MIN, 1 to 10, **4**	
	CENTER	ON, **OFF**	
		1, 2, 3, 4	**1:** Full cross **2:** Full cross with a hole **3:** Center **4:** Center with a hole
	SAFETY ZONE	ON, **OFF**	
		80.0, **90.0**, 92.5, 95.0%	
	EFFECT	ON, **OFF**	
	ASPECT	ON, **OFF**	
		16:9, 15:9, 14:9, 13:9, **4:3**, (4:3)	**(4:3):** If VF SCAN is set to 4:3 on the HDLA side when HDLA is attached (cannot be changed)
	MASK	ON, **OFF**, (ON)	**(ON):** If VF SCAN is set to 4:3 on the HDLA side when HDLA is attached (cannot be changed)
		0 to 15, **12**	Sets the darken level outside the aspect area.
	SAFETY	ON, **OFF**	For the safety marker in Aspect mode.
		80.0, **90.0**, 92.5, 95.0%	

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF DETAIL> 04 (U02)	VF DETAIL	**ON**, OFF	
		0 to 100%, **25%**	
	CRISP	–99 to +99, **0**	
	FREQUENCY	**9M**, 14M, 18M	
	FLICKER	ON, **OFF**	
	AREA	10 to 100%, **100%**	
	ZOOM LINK	**ON**, OFF	
		0 to 100%, **50%**	
	COLOR DETAIL	ON, **OFF**	
		YELLOW, RED, **BLUE**	
	COLOR	ON, **OFF**	
	PEAK COLOR	ON, **OFF**	
	CHROMA LEVEL	100%, 50%, **25%**, 0%	
	RETURN DISABLE	ON, **OFF**	Selects whether to set VF DETAIL to OFF for RETURN display.
	DYNAMIC FOCUS	**OFF**, ON, (OFF)	
<DYNAMIC FOCUS> 05	DYNAMIC FOCUS	**OFF**, ON, (OFF)	Turn the dynamic focus function on/off. **(OFF):** Displayed for formats other than 4K/HDR format.
	FREQUENCY	**EXTRA-LOW**, LOW, MID, HIGH, (AUTO)	Sets the bandwidth of the 4K resolution high-frequency signal to detect. **(AUTO):** Displayed when ZOOM LINK is set to ON.
	ZOOM LINK	ON, **OFF**	
		MODE1, MODE2, MODE3, MODE4	Sets characteristics according to the zoom position.
		0 to 100%, **50%** (5% increments)	Sets the level at the WIDE position mark.
	CRISP	**0** to 99%	Adjust to eliminate minute components of the detected signal.
	LEVEL	**LOW**, MIDDLE, HIGH, VERY-HIGH	Sets the brightness level of the marking signal.
	PEAK COLOR	OFF, RED, BLUE, GREEN, BROWN, PURPLE, **YELLOW**	
	THRESHOLD	**0** to 99%	Sets the threshold level for adding color specified using PEAK COLOR.
	COLOR LEVEL	0 to 99%, **50%**	Sets the saturation of the color of the PEAK COLOR indicator.

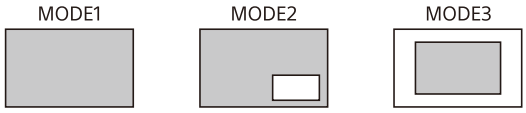
OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<FOCUS POSITION METER1> 06	FOCUS POSITION METER	**OFF**, ON, (OFF), (ON)	Shows/hides the focus position meter. Settings in ( ): When HDLA-3505 is attached (cannot be changed)
	NEAR LIMIT	**0** to 999	Sets the NEAR edge of the focus position meter.
	FAR LIMIT	0 to **999**	Sets the FAR edge of the focus position meter.
	POSITION	**TOP**, RIGHT, BOTTOM, LEFT	Sets the display position of the focus position meter. **TOP:** Displayed at the top of the screen. **RIGHT:** Displayed on the right side of the screen. **BOTTOM:** Displayed at the bottom of the screen. **LEFT:** Displayed on the left side of the screen.
	NEAR/FAR POSITION	**NORMAL**, REVERSE	Sets the near/far display orientation of the focus position meter. Set to REVERSE to flip the NEAR edge and FAR edge.
	SIZE	**NORMAL**, HALF	Sets the display size of the focus position meter.
	RULED LINE	**OFF**, ON	Shows/hides ruled lines.
	INDEX COLOR	BLACK, **WHITE**	Sets the index color.
	INDEX WIDTH	**1** to 5	Sets the index width.
	MARKER WIDTH	**1** to 9	Sets the width of the marker axis portion.
	CURRENT FOCUS DIST		Displays the current focus distance (display only).
<FOCUS POSITION METER2> 07	ADJUSTED SIGN		
	SENSE	1 to 5, **2**	Sets the adjustment sensitivity. Increasing the value increases the sensitivity.
	NAME DISP	OFF, 1S, 3S, 5S, **ON**	Sets whether to show/hide the marker name and sets the display time.
	FRAME DISP	OFF, 1S, 3S, 5S, **ON**	Sets whether to show/hide the adjustment frame and sets the display time.
	FRAME WIDTH	1 to 5, **2**	Sets the width of the adjustment frame.
	MARKER CONFIG		
	[REG] MKR1, 2, 3	Execute using ENTER.	Registers a marker at the current focus position. (Cannot be registered here if marker registration has been assigned to a dedicated switch.)
	[DISP] MKR1, 2, 3	**OFF**, ON	Shows/hides markers. (Cannot be changed here if marker registration has been assigned to a dedicated switch.)
	[COLOR] MKR1, 2, 3	**RED**, **GREEN**, **BLUE**, YELLOW, ORANGE, PURPLE, GRAY, BLACK, WHITE	Sets the color of the triangular part of the marker. MKR1 default value is RED, MKR2 default value is GREEN, and MKR3 default value is BLUE.
	[NAME] MKR1, 2, 3	Max. 8 characters (Default value: MARKER 1 to 3)	Sets the text of the marker name. *See "To specify a character string" (page 37).*
	[POS] MKR1, 2, 3	**0** to 999	Sets the position of the marker.
	CURRENT FOCUS DIST		Displays the current focus distance (display only).
<FOCUS ASSIST> 08 (U03)	INDICATOR	ON, **OFF**, (OFF), (ON)	Settings in ( ): When HDLA-3505 is attached (cannot be changed)
	MODE	**BOX**, B&W, COL	
		BTM, LEFT, TOP, RIGHT	
	LEVEL	MIN, 1 to 10, **4**	
		QUICK, SMOOTH	
	GAIN	0 to 99, **50**	
	OFFSET	0 to 99, **50**	
	AREA MARKER	ON, **OFF**	
	SIZE	SMALL, **MIDDLE**, LARGE	
	POSITION	LEFT, **CENTER**, RIGHT	
	POSITION H	0 to 99, **50**	
	POSITION V	0 to 99, **50**	

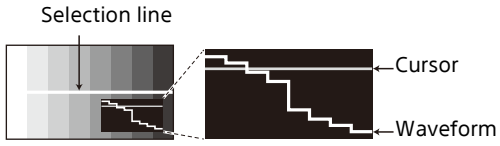
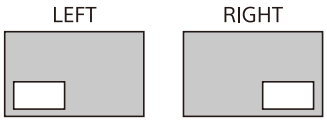
OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<ZEBRA> 09 (U08)	ZEBRA	ON, **OFF**	
		1, 2, 1&2	
	ZEBRA1		
	LEVEL	50 to 109%, **70%**	
	WIDTH	0 to 30%, **10%**	
	ZEBRA2	50 to 109%, **100%**	
<CURSOR> 10 (U07)	CURSOR	**OFF**, ON	Displayed only when HDLA is attached.
	LEVEL	**WHITE**, BLACK, DOT	
		MIN, 1 to 10, **4**	
	BOX/CROSS	**BOX**, CROSS	
	H POSITION	0 to 99, **50**	Displayed only when HDLA is attached.
	V POSITION	0 to 99, **50**	
	WIDTH	0 to 99, **50**	
	HEIGHT	0 to 99, **50**	
	BOX MEMORY	1/2/3/4: **OFF**, ON	
	H POSI	1/2/3/4: 0 to 99, **50**	
	V POSI	1/2/3/4: 0 to 99, **50**	
	WIDTH	1/2/3/4: 0 to 99, **50**	
	HEIGHT	1/2/3/4: 0 to 99, **50**	
<BOX CURSOR FILE> 11	1:		BOX CURSOR FILE selection FILE name input. Align the cursor to the left of the number to select the BOX CURSOR FILE. Align the cursor to the right of the number to enter the BOX CURSOR FILE name. *See "To specify a character string" (page 37).*
	2:		
	3:		
	4:		
	5:		
	6:		
	7:		
	8:		
	9:		
	10:		
	STORE		Stores a BOX CURSOR FILE name in the camera.
	IMPORT FROM USB		Transfers BOX CURSOR FILE from a USB drive to the camera.
	EXPORT TO USB		Transfers BOX CURSOR FILE from the camera to a USB drive.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF DYNAMIC CONTRAST> 12	DYNAMIC CONTRAST	**OFF**, ON	Turns on/off the contrast adjustment function for the picture displayed in the viewfinder.
	MODE		
	HIGHLIGHT	**OFF**, ON	Turns the HIGHLIGHT function on/off. HIGHLIGHT enhances high-brightness areas. **Notes** • FOGGY cannot be set to ON at the same time as HIGHLIGHT or UMBRA. • If HIGHLIGHT or UMBRA is set to ON, FOGGY is set to OFF (fixed). If FOGGY is set to ON, HIGHLIGHT and UMBRA are set to OFF (fixed).
	GAIN	0 to 100%, **30%**	Sets the intensity of contrast enhancement.
	FILTER	**NARROW**, MIDDLE, WIDE	Sets the frequency response of the filter for enhancing contrast.
	UMBRA	**OFF**, ON	Turns the UMBRA function on/off. UMBRA enhances low-brightness areas. **Notes** • UMBRA can be selected only when the FILTER setting is WIDE. • FOGGY cannot be set to ON at the same time as HIGHLIGHT or UMBRA. • If HIGHLIGHT or UMBRA is set to ON, FOGGY is set to OFF (fixed). If FOGGY is set to ON, HIGHLIGHT and UMBRA are set to OFF (fixed).
	GAIN	0 to 100%, **30%**	Sets the intensity of contrast enhancement.
	FILTER	WIDE	Sets the frequency response of the filter for enhancing contrast.
	FOGGY	**OFF**, ON	Turns the FOGGY function on/off. FOGGY enhances the contrast. **Notes** • FOGGY cannot be set to ON at the same time as HIGHLIGHT or UMBRA. • If HIGHLIGHT or UMBRA is set to ON, FOGGY is set to OFF (fixed). If FOGGY is set to ON, HIGHLIGHT and UMBRA are set to OFF (fixed).
	GAIN	0 to 100%, **30%**	Sets the intensity of contrast enhancement.
	FILTER	**NARROW**, MIDDLE, WIDE	Sets the frequency response of the filter for enhancing contrast.
<SPIRIT LEVEL> 13	INDICATOR	ON, **OFF**	
	MODE	**1**, 2	Switches the display method of the indicator.
	REVERSE	**OFF**, ON	Inverts the movement of the indicator horizontally.
	SCALE	50% to 150%, **100%**	Adjusts the horizontal width of the indicator.
	H POSITION	0 to 99, **50**	
	V POSITION	0 to 99, **97**	
	ANGLE		Displays the inclination angle (display only).
	OFFSET	–90 to +90, **0**	
	SET ZERO ANGLE	Execute using ENTER.	Designates the current angle as level (0°).
	CLEAR	Execute using ENTER.	Sets OFFSET to 0.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF OUT> 14 (U01)	VF OUT	**COLOR**, Y, R, G, B, (COLOR), (Y), (R), (G), (B), (R+G), (R+B), (G+B), (OFF), (ON)	Settings in ( ): When HDLA-3505 is attached (cannot be changed)
	CHARACTER LEVEL	1 to 5, **4**	
	PinP	**OFF**, RETURN, HD PROMPTER	OFF and RETURN displayed only when HKC-TR37 is installed.
	POSITION	**1**, 2, 3, 4	
	SIZE	1/2.5, **1/3**, 1/4	
	MODE	PinP OFF: --- PinP RETURN: 1, 2, 3, 4 PinP HD PROMPTER: 1, 2	: Main picture, : Return picture, : HD Prompter picture **PinP: OFF** Mode / RET SW OFF / RET SW ON --- **PinP: RETURN** Mode / RET SW OFF / RET SW ON 1 2 3 4 **PinP: HD PROMPTER** Mode / RET SW OFF / RET SW ON 1 2 Cannot be used during standalone operation.
	MIX VF	**OFF**, ON	Turns on/off the function that makes the return video semi-transparent and displays it together with the camera image in the viewfinder.
	MODE	**MAIN&RET**, MAIN, RET	**MAIN&RET:** Displays semi-transparent return video when displaying the camera image. Displays semi-transparent camera image when displaying the return video. **MAIN:** Displays semi-transparent return video when displaying the camera image. No mixing is applied when displaying the return video. **RET:** Displays semi-transparent camera image when displaying the return video. No mixing is applied when displaying the camera image.
	LEVEL	0 to 99, **10**	Percentage mix of return video and camera image (%)
	HFR MODE	**ACCUMULATE**, SINGLE	Output images as follows to the viewfinder when in HD HFR format. **ACCUMULATE:** Accumulated image **SINGLE:** Single image

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF FUNCTION> 15 Displayed only when HDVF-EL740 (D-VF)/ EL760 (D-VF) is connected.	VF CHROMA	–99 to 99, **0**	Sets the chrominance level.
	COLOR TEMP	3200K to 9500K, **6500K** (100K increments)	Sets the color temperature of the display. Adjustable in 100K increments.
	IBAC	OFF, **5**, 15, 30	Sets the time (minutes) until the IBAC (Intelligent Brightness Ambient Control) function is activated. When BBM is set to ON, this is set to 5 minutes (fixed). **IBAC (Intelligent Brightness Ambient Control)** • The D-VF has a built-in IBAC function to reduce burn-in. When a still image is displayed continuously for a set interval, this function is activated automatically to reduce the brightness of the screen. • The time before the IBAC function is activated can be set using the menu. • You can cancel the function by changing the camera image or by displaying the status of the unit.
	FLICKER FREE	**OFF**, ON	Set to ON when you want to suppress screen flicker for input signals with low vertical frequencies (such as 24PsF, 50i). When set to ON, blurred outlines and afterimages may be visible in fast-moving images. When BBM is set to ON, this is set to OFF (fixed).
	BBM	**OFF**, ON	BBM (Boosted Brightness Mode) is a function that increases the maximum brightness of the display. It is set to OFF when the power is turned on. **Note** Avoid leaving turned ON for extended periods to prevent burn-in.
	TALLY/IND	OFF, **ON**, UPPER, LOWER	Controls the indicators (including the tally indicators). **OFF:** Enables only the ALARM indicator, STATUS indicator, and BBM indicator. **ON:** Enables all indicators, including the tally indicators. **UPPER:** Enables all indicators, excluding the lower indicators (enables only the upper tally indicator). **LOWER:** Enables all indicators, excluding the upper indicators (enables only the lower tally indicator).
	TALLY/IND DIM	1 to 10, **5**	Sets the brightness of the indicators (including the tally indicators). Increasing the number increases the brightness, and vice versa.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF MAGNIFICATION> 16 Displayed only when HDVF-EL740 (D-VF)/ EL760 (D-VF) is connected.	MAGNIFICATION	**OFF**, ON	Switches between normal display (OFF) and magnified display (ON). It is reset to normal display (OFF) when the power is turned on.
	MODE SEL	**MODE1**, MODE2, MODE3	Selects the magnified display mode. **MODE1:** Normal magnified display **MODE2:** Displays the original image in the lower left or lower right of the magnified display. **MODE3:** Displays the magnified image in the center of the original image display. 
	MAG POSITION	**CENTER**, UPPER, RIGHT, LOWER, LEFT	Selects the portion to be magnified, when magnified display is enabled. Displays a portion of the image magnified at its original resolution. **CENTER:** Displays a center portion magnified. **UPPER:** Displays an upper portion magnified. **RIGHT:** Displays a right portion magnified. **LOWER:** Displays a lower portion magnified. **LEFT:** Displays a left portion magnified. 
	DISPLAY POSITION	LEFT, **RIGHT**	Sets the display position of the subscreen when MODE SEL is set to MODE2. **LEFT:** Displays the subscreen in the lower left of the screen. **RIGHT:** Displays the subscreen in the lower right of the screen.
	AUTO RELEASE	**AUTO**, MANUAL	Sets the method for returning to normal display mode from magnified display mode, when magnified display is enabled. **AUTO:** Automatically returns from magnified display mode after a set time has elapsed since the ASSIGN switch was pressed. **MANUAL:** Returns from magnified display mode immediately when the ASSIGN switch is pressed again.
<VF PRESET> 17 Displayed only when HDVF-EL740 (D-VF)/ EL760 (D-VF) is connected.	PRESET	**OFF**, ON	Selects whether to enable the chroma level set by the BRIGHT, CONTRAST, and PEAKING knobs and the FUNCTION menu, or a preset value set by PRST BRIGHT, PRST CONTRAST, PRST VF DETAIL, and PRST CHROMA in the VF PRESET menu. **OFF:** Enable the chroma level set by the knobs and FUNCTION menu. **ON:** Enable the settings in the PRESET menu.
	PRST BRIGHT	–99 to 99, **0**	Sets the brightness of the image when PRESET is set to ON. Increasing the number increases the image brightness, and vice versa.
	PRST CONTRAST	–99 to 99, **0**	Sets the contrast of the image when PRESET is set to ON. Increasing the number increases the contrast, and vice versa.
	PRST VF DETAIL	0 to 100, **25**	Sets the VF DETAIL level when PRESET is set to ON. Increasing the number increases the detail, and vice versa.
	PRST CHROMA	–99 to 99, **0**	Sets the chroma level when PRESET is set to ON. Increasing the number increases the chroma level, and vice versa.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<VF WAVEFORM> 18 Displayed only when HDVF-EL740 (D-VF)/ EL760 (D-VF) is connected.	WAVEFORM	**OFF**, ON	Selects whether to display the input signal waveform (simplified display) on the subscreen (ON) or normal display (OFF). Example: Waveform monitor when image is color bars  **Note** The waveform monitor is a simplified display and should only be used as a guide.
	INTENSITY	1 to 10, **5**	Sets the brightness of the waveform monitor display. Increasing the number increases the brightness, and vice versa.
	POSITION	LEFT, **RIGHT**	Switches the display position of the waveform monitor. **LEFT:** Displays in the lower left of the screen. **RIGHT:** Displays in the lower right of the screen. 
	HALF TONE	**OFF**, ON	Selects whether the background of the waveform monitor display is black (OFF) or translucent halftone (ON).
	SWEEP	**LINE**, FIELD	Switches the display mode of the waveform monitor. **LINE:** Displays levels with horizontal axis corresponding to one line. **FIELD:** Displays levels with vertical axis corresponding to one field.
	LINE SELECT	**OFF**, ON	Selects whether to display all lines (OFF) or the selection line (ON) when SWEEP is set to LINE.
	LINE	0 to 100, **50**	Sets the position of the selection line when displaying the selection line. Increasing the number moves the position down, and vice versa.
	COLOR	**W**, R, G, B, YL	Selects the display color (white (W), red (R), green (G), blue (B), yellow (YL)) of the selection line when displaying the selection line.
	INTENSITY	1 to 10, **5**	Sets the brightness of the selection line. Increasing the number increases the brightness, and vice versa.
	CURSOR	0 to 100, **50**	Sets the display position of the cursor within the waveform monitor display. Increasing the number moves the position up, and vice versa.
	COLOR	**W**, R, G, B, YL	Selects the display color (white (W), red (R), green (G), blue (B), yellow (YL)) of the cursor.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<SWITCH ASSIGN1> 19 (U09) *1 *1: See *page 71*.	GAIN	L: –6, –3, **0**, 3, 6, 9, 12 dB	
		M: –6, –3, 0, 3, **6**, 9, 12 dB	
		H: –6, –3, 0, 3, 6, 9, **12** dB	
	ASSIGNABLE	**OFF**, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press an ASSIGNABLE button. **Notes** • Displayed when HDLA-3505 is not attached. • When you turn D.EXTENDER ON or OFF, noise may be generated. This is not a malfunction. D.EXTENDER does not operate when 4K or 2× speed format is selected. • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	HDLA ASSIGN 1	**OFF**, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the ASSIGN 1 or ASSIGN 2 button of the HDLA. **Notes** • Displayed when HDLA-3505 is attached. • When you turn D.EXTENDER ON or OFF, noise may be generated. This is not a malfunction. D.EXTENDER does not operate when 4K or 2× speed format is selected. • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	HDLA ASSIGN 2	OFF, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, **VF ASSIGN SW1**, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<SWITCH ASSIGN1> 19 (U09) *1 *1: See *page 71*.	INSIDE RET1	OFF, **RETURN1 SW**, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the RET 1 button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	INSIDE RET2	OFF, RETURN1 SW, **RETURN2 SW**, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the RET 2 button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	INSIDE CALL	OFF, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, **CALL**, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the CALL button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<SWITCH ASSIGN2> 20 (U10) *1 *1: See *page 71*.	FRONT RET1	OFF, **RETURN1 SW**, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	**Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	FRONT RET2	OFF, RETURN1 SW, **RETURN2 SW**, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	
	HANDLE SW1	OFF, **RETURN1 SW**, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	
	HANDLE SW2	OFF, RETURN1 SW, RETURN2 SW, RETURN3 SW, **INCOM1**, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	
	ZOOM SPEED	0 to 99, **20**	

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<REAR FUNCTION ASSIGN> 21	A PUSH B PUSH C PUSH	OFF, **RETURN1 CAM SW**, RETURN1 CAM SW TOGGLE, **RETURN2 CAM SW**, RETURN2 CAM SW TOGGLE, **RETURN3 CAM SW**, RETURN3 CAM SW TOGGLE, VF DETAIL, MIX VF, FOCUS POSITION METER, FOCUS POSITION METER MKR1 REG, FOCUS POSITION METER MKR2 REG, FOCUS POSITION METER MKR3 REG, FOCUS ASSIST INDICATOR, DIGITAL EXTENDER, VF DYNAMIC CONTRAST, DYNAMIC FOCUS	Assigns functions executed when you press RET/ASSIGNABLE buttons A, B, and C. Default values: When A PUSH is selected: RETURN1 CAM SW. When B PUSH is selected: RETURN2 CAM SW. When C PUSH is selected: RETURN3 CAM SW.
	A ROT B ROT C ROT	OFF, **RET CCU CH SEL**, VF DETAIL LEVEL, VF DETAIL CRISP, FOCUS ASSIST IND GAIN	Assigns functions executed when you turn RET/ASSIGNABLE buttons A, B, and C. The items that can be selected vary depending on the A PUSH, B PUSH, and C PUSH settings. When the PUSH function is OFF: OFF When RETURN1 CAM SW, RETURN1 CAM SW TOGGLE, RETURN2 CAM SW, RETURN2 CAM SW TOGGLE, RETURN3 CAM SW, RETURN3 CAM SW TOGGLE, FOCUS POSITION METER, FOCUS POSITION METER MKR1 REG, FOCUS POSITION METER MKR2 REG, FOCUS POSITION METER MKR3 REG, DIGITAL EXTENDER is selected: RET CCU CH SEL When VF DETAIL is selected: VF DETAIL LEVEL or VF DETAIL CRISP When FOCUS ASSIST INDICATOR is selected: FOCUS ASSIST IND GAIN When VF DYNAMIC CONTRAST is selected: DYNAMIC CONTRAST GAIN When DYNAMIC FOCUS is selected: DYNAMIC FOCUS CRISP
	BRIGHTNESS	30 to 100, **100**	Sets the brightness of the RET/ASSIGNABLE button LED on the rear panel.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<LENS SWITCH> 22 *1: See *page 71*.	VTR S/S	OFF, RETURN1 SW, **RETURN2 SW**, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns a function to the VTR START/STOP switch on the lens. The setting is displayed highlighted while the lens switch is pressed. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	RET1	OFF, **RETURN1 SW**, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the RET 1 button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	RET2	OFF, RETURN1 SW, **RETURN2 SW**, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the RET 2 button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<LENS SWITCH> 22 *1: See *page 71*.	RET3	OFF, RETURN1 SW, RETURN2 SW, **RETURN3 SW**, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the RET3 button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	RET4 RET5 RET6 RET7 RET8	**OFF**, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the RET4 to RET8 button. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<EXT SWITCH> 23 *1 *1: See *page 71*.	RET CTRL CONNECTOR		
	RET1 Pin5:	OFF, **RETURN1 SW**, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	This function works when each pin of the RET CTRL connector contacts with GND (pin 3). TALLY R, TALLY G, and TALLY Y are available only when using the camera as a standalone device, and make the tally lamp light. VTR S/S is available only when using the camera as a standalone device, and makes the R tally lamp light. VTR S/S signal is embedded in the video. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	RET2 Pin6:	OFF, RETURN1 SW, **RETURN2 SW**, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	
	RET3 Pin4:	OFF, RETURN1 SW, RETURN2 SW, **RETURN3 SW**, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<EXT SWITCH> 23 *1 *1: See *page 71*.	INCOM1 Pin1:	OFF, RETURN1 SW, RETURN2 SW, RETURN3 SW, **INCOM1**, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	This function works when each pin of the RET CTRL connector contacts with GND (pin 3). TALLY R, TALLY G, and TALLY Y are available only when using the camera as a standalone device, and make the tally lamp light. VTR S/S is available only when using the camera as a standalone device, and makes the R tally lamp light. VTR S/S signal is embedded in the video. **Notes** • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
	INCOM2 Pin2:	OFF, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, **INCOM2**, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	
<VF SW ASSIGN> 24 Displayed only when HDVF-EL740 (D-VF)/ EL760 (D-VF) is connected. *1: See *page 71*.	SW ASSIGN1 SW ASSIGN2 SW ASSIGN L1 SW ASSIGN L2 SW ASSIGN R1 SW ASSIGN R2	**OFF**, RETURN1 SW, RETURN2 SW, RETURN3 SW, INCOM1, INCOM2, EXTENDER, DIGITAL EXTENDER, 5600K, VF DETAIL, MIX VF, SPIRIT LEVEL, FOCUS ASSIST, PinP, VF ASSIGN SW1, VF ASSIGN SW2, RET1 SW TOGGLE, RET2 SW TOGGLE, RET3 SW TOGGLE, VTR S/S, TALLY R, TALLY G, TALLY Y, FAN MAX, CURSOR ALL OFF, DYNAMIC FOCUS, FLAG, AWB, CALL, ZOOM(T), ZOOM(W), DYNAMIC CONTRAST, FOCUS POSITION METER, VF MONO, VF MAG, VF WFM, VF PRESET, VF UP TALLY VF RET, VF RET TOGGLE, DoF PRESET 1, DoF PRESET 2, DoF PRESET 3	Assigns functions executed when you press the viewfinder assignable switch buttons. **Notes** • SW ASSIGN L1, SW ASSIGN L2, SW ASSIGN R1, and SW ASSIGN R2 are displayed HDVF-EL760 (D-VF) is connected. • DoF PRESET 1, DoF PRESET 2, and DoF PRESET 3 are displayed on HDC5500V/3500V or when HKC-VND50 is installed. • INCOM1 and INCOM2 are displayed only on the HDC5500/3500 (UCJ model). ENG and PROD are displayed on the HDC5500/3500 (CE model). ENG TALK and PROD TALK are displayed on the HDC5500V/3500V. • VF MAG, VF WFM, VF PRESET, and VF UP TALLY are displayed when HDVF-EL740 (D-VF)/EL760 (D-VF) is connected. • VF RET and VF RET TOGGLE are displayed when HDVF-EL740 (D-VF) is connected.
<RETURN> 25	RET1 SW SEL RET2 SW SEL RET3 SW SEL	**CCU RET1**, **CCU RET2**, **CCU RET3**, CCU RET4, CCU RET5, CCU RET6, CCU RET7, CCU RET8	Sets the return video to display when a return switch is pressed. The settings that are available increase according to the connected CCU units. RET1 SW SEL default value is CCU RET1, RET2 SW SEL default value is CCU RET2, and RET3 SW SEL default value is CCU RET3.
	RET1 SW + RET2 SW	**RET1 SW**, RET3 SW	Changes operation when you press both the RET1 button and RET2 button at the same time. **RET1 SW:** Function as the RET1 button. **RET3 SW:** Function as the RET3 button.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<HEADSET MIC> 26 (U11)	INTERCOM1	**DYNAMIC**, CARBON, MANUAL	
	LEVEL	–60 dBu, –50 dBu, –40 dBu, –30 dBu, –20 dBu, **(–60 dBu)**, (–20 dBu)	Settings in ( ): With DYNAMIC or CARBON (cannot be changed) For DYNAMIC, set to –60 dBu (fixed). For CARBON, set to –20 dBu (fixed).
		–6, **0**, 6 dB	Input gain
	POWER	ON, OFF, (ON), **(OFF)**	Settings in ( ): With DYNAMIC or CARBON (cannot be changed)
	UNBAL	**ON**, OFF, (ON), (OFF)	Settings in ( ): With CARBON (cannot be changed)
	INTERCOM2	**DYNAMIC**, CARBON, MANUAL	
	LEVEL	–60 dBu, –50 dBu, –40 dBu, –30 dBu, –20 dBu, **(–60 dBu)**, (–20 dBu)	Settings in ( ): With DYNAMIC or CARBON (cannot be changed) For DYNAMIC, set to –60 dBu (fixed). For CARBON, set to –20 dBu (fixed).
		–6, **0**, 6 dB	Input gain
	POWER	ON, OFF, (ON), **(OFF)**	Settings in ( ): With DYNAMIC or CARBON (cannot be changed)
	UNBAL	**ON**, OFF, (ON), (OFF)	Settings in ( ): With CARBON (cannot be changed)
	EARPHONE	ON, **OFF**	
	LEVEL	–34 dBu, **–40 dBu**, –46 dBu	
	TRACKER LEVEL	**0 dBu**, –20 dBu	Sets the input signal level to the tracker.
	(Blank)	–6, **0**, 6 dB	Sets the gain of the input signal to the tracker.
<INTERCOM1> 27	RECEIVE SELECT	**SEPARATE**, MIX	Sets the headset audio. **SEPARATE:** Set L and R separately. **MIX:** Set L and R to the same settings.
	INTERCOM	---, **LEFT**, RIGHT, BOTH	When the Line select / Receive MIX select switch on the operation panel is set to MIX, menu items ENG and PROD appear instead of this item (the setting values are same as this item).
	PGM1	---, LEFT, **RIGHT**, BOTH	
	PGM2	---, LEFT, **RIGHT**, BOTH	
	PGM3	**---**, LEFT, RIGHT, BOTH	
	TRACKER	---, **LEFT**, RIGHT, BOTH	
	SIDE TONE	MUTE, 1 to 99, **50**	
	INTERCOM1/2	**SEPARATE**, MIX	Displayed only on the HDC5500/3500. Set to MIX for intercom communication between intercom 1 and intercom 2. When set to MIX, you can receive audio from the other party if the following condition is satisfied. • When the intercom line of the other party (ENG/PROD) can be received
	MIX TALK	**ENG**, PROD	Displayed only on the HDC5500/3500. Sets the TALK destination when the Line select / Receive MIX select switch on the operation panel is set to MIX.
	PGM3 VOLUME LINK	**PGM1**, PGM2, MENU	Displayed only on the HDC5500/3500. Sets the method for controlling PGM volume. **PGM1:** Determined by the PGM1 control of intercom 1. **PGM2:** Determined by the PGM2 control of intercom 1. **MENU:** Determined by menu setting.
	(Blank)	0% to **50%** to 100%	Displayed only when PGM3 VOLUME LINK is set to MENU.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<INTERCOM2> 28	RECEIVE SELECT	**SEPARATE**, MIX	Sets the headset audio. **SEPARATE:** Set L and R separately. **MIX:** Set L and R to the same settings.
	INTERCOM	---, **LEFT**, RIGHT, BOTH	When the Line select / Receive MIX select switch on the operation panel is set to MIX, menu items ENG and PROD appear instead of this item (the setting values are same as this item).
	PGM1	---, LEFT, **RIGHT**, BOTH	
	PGM2	---, LEFT, **RIGHT**, BOTH	
	PGM3	**---**, LEFT, RIGHT, BOTH	
	TRACKER	**---**, LEFT, RIGHT, BOTH	
	SIDE TONE	MUTE, 1 to 99, **50**	
	INTERCOM1/2	**SEPARATE**, MIX	Displayed only on the HDC5500/3500. Set to MIX for intercom communication between intercom 1 and intercom 2. When set to MIX, you can receive audio from the other party if the following condition is satisfied. • When the intercom line of the other party (ENG/PROD) can be received
	MIX TALK	**ENG**, PROD	Displayed only on the HDC5500/3500. Sets the TALK destination when the Line select / Receive MIX select switch on the operation panel is set to MIX.
	PGM3 VOLUME LINK	**PGM1**, PGM2, MENU	Displayed only on the HDC5500/3500. Sets the method for controlling PGM volume. **PGM1:** Determined by the PGM1 control of intercom 2. **PGM2:** Determined by the PGM2 control of intercom 2. **MENU:** Determined by menu setting.
	(Blank)	0% to **50%** to 100%	Displayed only when PGM3 VOLUME LINK is set to MENU.
	MENU VOLUME CTRL	ON, **OFF**	Displayed only on the HDC5500V/3500V. Enables menu adjustment of the intercom 2 audio listening level.

OPERATION			
Page name **Page No.**	**Item**	**Settings**	**Description**
<TRACKER> 29	RECEIVE SELECT	**SEPARATE**, MIX	Sets the headset audio. **SEPARATE:** Set L and R separately. **MIX:** Set L and R to the same settings.
	[1-LR]		
	INTERCOM	---, **LEFT**, RIGHT, BOTH	When the INTERCOM1 Line select / Receive MIX select switch on the operation panel is set to MIX, menu items ENG and PROD appear instead of this item (the setting values are same as this item).
	PGM1	---, LEFT, **RIGHT**, BOTH	
	PGM2	---, LEFT, **RIGHT**, BOTH	
	PGM3	**---**, LEFT, RIGHT, BOTH	
	[2]		
	INTERCOM	ON, **OFF**	When the INTERCOM1 Line select / Receive MIX select switch on the operation panel is set to MIX, menu items ENG and PROD appear instead of this item (the setting values are same as this item).
	PGM1	ON, **OFF**	
	PGM2	ON, **OFF**	
	PGM3	ON, **OFF**	
	OUTPUT LEVEL 1-L	**0 dBu**, –6 dBu, –12 dBu, –18 dBu, –20 dBu, –24 dBu	
	OUTPUT LEVEL 1-R		
	OUTPUT LEVEL 2		
	OPERATION LINK	**INCOM1**, INCOM2	Displayed only on the HDC5500/3500. Selects which intercom to link to the headset microphone on/off control, Line select / Receive MIX switch, MIX TALK setting (UCJ model), and each volume adjustment.
	MIX TALK(INCOM1)	**ENG**, PROD	Displayed only on the HDC5500/3500. Same as MIX TALK on the <INTERCOM1> page. (Displayed when OPERATION LINK is set to INCOM1)
	MIX TALK(INCOM2)	**ENG**, PROD	Displayed only on the HDC5500/3500. Same as MIX TALK on the <INTERCOM2> page. (Displayed when OPERATION LINK is set to INCOM2)
	TALK LINK	**INCOM1**, INCOM2	Displayed only on the HDC5500V/3500V. Selects which intercom to link to the headset microphone on/off control and line selection.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<EARPHONE> 30	RECEIVE SELECT	**SEPARATE**, MIX	Sets the headset audio. **SEPARATE:** Set L and R separately. **MIX:** Set L and R to the same settings.
	INTERCOM	---, **LEFT**, RIGHT, BOTH	When the intercom Line select / Receive MIX select switch selected by OPERATION LINK on the operation panel is set to MIX, menu items ENG and PROD appear instead of this item (the setting values are same as this item).
	PGM1	---, LEFT, **RIGHT**, BOTH	
	PGM2	---, LEFT, **RIGHT**, BOTH	
	PGM3	**---**, LEFT, RIGHT, BOTH	
	TRACKER	---, **LEFT**, RIGHT, BOTH	
	SIDE TONE	MUTE, 1 to 99, **50**	
	OPERATION LINK	**INCOM1**, INCOM2	Displayed only on the HDC5500/3500. Selects which intercom to link to the headset microphone on/off control, Line select / Receive MIX switch, MIX TALK setting (UCJ model), and each volume adjustment.
	MIX TALK(INCOM1)	**ENG**, PROD	Displayed only on the HDC5500/3500. Same as MIX TALK on the <INTERCOM1> page. (Displayed when OPERATION LINK is set to INCOM1)
	MIX TALK(INCOM2)	**ENG**, PROD	Displayed only on the HDC5500/3500. Same as MIX TALK on the <INTERCOM2> page. (Displayed when OPERATION LINK is set to INCOM2)
	PGM3 LINK(INCOM1)	**PGM1**, PGM2, MENU	Displayed only on the HDC5500/3500. Same as PGM3 VOLUME LINK on the <INTERCOM1> page. (Displayed when OPERATION LINK is set to INCOM1)
	(Blank)	0% to **50%** to 100%	
	PGM3 LINK(INCOM2)	**PGM1**, PGM2, MENU	Displayed only on the HDC5500/3500. Same as PGM3 VOLUME LINK on the <INTERCOM2> page. (Displayed when OPERATION LINK is set to INCOM2)
	(Blank)	0% to **50%** to 100%	
<INTERCOM ASSIGN> 31 Displayed only on the HDC5500V/ 3500V.	INTERCOM KNOB ASSIGN		
	TRACKER KNOB	INTERCOM1, INTERCOM2, EARPHONE, **TRACKER**, PGM3	Selects the adjustment item to assign to the TRACKER control and PGM3 control. **INTERCOM1:** Adjusts the intercom 1 audio listening level. **INTERCOM2:** Adjusts the intercom 2 audio listening level. **EARPHONE:** Adjusts the earphone audio listening level. **TRACKER:** Adjusts the intercom audio listening level of an intercom connected to the TRACKER connector. **PGM3:** Adjusts the audio listening level of program 3.
	PGM3 KNOB	INTERCOM1, INTERCOM2, EARPHONE, TRACKER, **PGM3**	
	TRACKER VOLUME	0% to **50%** to 100%	Displayed when TRACKER is not assigned to either TRACKER KNOB or PGM3 KNOB.
	PGM3 VOLUME	0% to **50%** to 100%	Displayed when PGM3 is not assigned to either TRACKER KNOB or PGM3 KNOB.
	INTERCOM TALK SW		
	ENG/PROD TALK	**INTERCOM1&2**, INTERCOM1, INTERCOM2	Switches the intercom for which to turn the microphone ON when an assignable switch with ENG TALK or PROD TALK is pressed, or when the ENG/PROD switch is pressed on a lens demand unit.

OPERATION			
Page name Page No.	**Item**	**Settings**	**Description**
<OPERATOR FILE> 32	IMPORT FROM USB	Execute using ENTER.	Imports an operator file from a USB drive.
	EXPORT TO USB	Execute using ENTER.	Exports the current settings of the operator file items to a USB drive.
	PRESET	Execute using ENTER.	Sets the operator file items to the preset values in internal memory.

*1 Observe the following points.

- When you turn D.EXTENDER ON or OFF, noise may be generated. This is not a malfunction. D.EXTENDER does not operate when 4K or 2× speed format is selected.
- TALLY R, TALLY G, and TALLY Y are enabled only in standalone operation.
- VTR S/S is available only when using the camera as a standalone device, and adds the REC signal to the SDI signal. Pressing this button repeatedly toggles recording on/off. While recording, the tally lamp lights in red.
- An ":N/A" suffix is displayed for disabled items.

PAINT Menu

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<SW STATUS> P01	FLARE	**ON**, OFF	
	GAMMA	**ON**, OFF	
	BLK GAM	ON, **OFF**	
	KNEE	**ON**, OFF	
	WHT CLIP	**ON**, OFF	
	DETAIL	**ON**, OFF	
	LVL DEP	**ON**, OFF	
	SKIN DTL	ON, **OFF**	
	MATRIX	ON, **OFF**	
<VIDEO LEVEL> P02	WHITE	R/G/B: –99 to +99, **0**	R, G, B, and M (master) values can be independently set. (M cannot be set for WHITE.)
	BLACK	R/G/B/M: –99 to +99, **0.0**	
	FLARE	R/G/B: –99 to +99, **0** M: –99.9 to +99.9, **0**	
	GAMMA		
	V MOD		
	FLARE	**ON**, OFF	
	V MOD	**ON**, OFF	
	TEST	**OFF**, SAW, 10STEP	
<COLOR TEMP> P03	WHITE	R/G/B: –99 to +99, **0**	
	AUTO WHITE BALANCE	Execute using ENTER.	
	COLOR TEMP	0 K to 65535 K, **3200 K**	
	BALANCE	–99 to +99, **0**	
	ATW	ON, **OFF**	
	SPEED	1, **2**, 3, 4, 5	
	MASTER WHITE GAIN	–6 dB to +12 dB, **0.0 dB**	Sets gain using continuous variable control.
	MASTER GAIN	–6, –3, **0**, 3, 6, 9, 12 dB	Sets gain in step value changes.

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<GAMMA> P04	LEVEL	R/G/B/M: –99 to +99, **0**	R, G, B, and M (master) values can be independently set.
	COARSE	0.35 to 0.90 (0.05 steps), **0.45**	
	TABLE	**STANDARD**, HYPER, USER	
		1, 2, 3, 4, **5**, 6, 7	With STANDARD or USER selected (only 1 to 5 are available for USER) **1:** Equivalent to a camcorder **2:** ×4.5 gain **3:** ×3.5 gain **4:** Equivalent to SMPTE-240M **5:** Equivalent to ITU-R709 **6:** ×5.0 gain **7:** ×5.0–709
		1, 2, 3, **4**	With HYPER selected **1:** 325% to 100% **2:** 460% to 100% **3:** 325% to 109% **4:** 460% to 109%
	GAMMA	**ON**, OFF	
	TEST	**OFF**, SAW, 10STEP	
<BLACK GAMMA> P05	LEVEL	R/G/B/M: –99 to +99, **0**	R, G, B, and M (master) values can be independently set.
	RANGE	LOW, L.MID, H.MID, **HIGH**	
	BLACK GAMMA	ON, **OFF**	
	TEST	**OFF**, SAW, 10STEP	
<SATURATION> P06	SATURATION	–99 to +99, **0**	
		ON, **OFF**	
	LOW KEY SAT	–99 to +99, **0**	
	RANGE	LOW, L.MID, H.MID, **HIGH**	
		ON, **OFF**	
	TEST	**OFF**, SAW, 10STEP	
<KNEE> P07	K POINT	R/G/B/M: –99 to +99, **0**	R, G, B, and M (master) values can be independently set. Absolute values are displayed in ABS mode except for M (master).
	K SLOPE	R/G/B/M: –99 to +99, **0**	
	KNEE	**ON**, OFF	
	KNEE MAX	ON, **OFF**	
	KNEE SAT	–99 to +99, **0**	
		ON, **OFF**	
	AUTO KNEE	**OFF**, AUTO, (OFF)	**(OFF):** Displayed only for 4K/HDR format.
	POINT LIMIT	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	SLOPE	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	ABS		Highlighted: ABS (Absolute) mode
	SOFT KNEE	**OFF**, ON	Disabled when KNEE is set to OFF.
	RADIUS	0 to 99, **0**	
<WHITE CLIP> P08	W CLIP	–99 to +99, **0**	
		ON, OFF	
	ABS		Highlighted: ABS (Absolute) mode

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<DETAIL 1> P09	DETAIL	**ON**, OFF	
	LEVEL	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	HFR RATIO	0 to 199%, **100%**	Adjustment value in HFR format mode
	LIMITER [M]	–99 to +99, **0**	
	LIMITER [WHT]	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LIMITER [BLK]	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	CRISP	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	HFR RATIO	0 to 199%, **100%**	Adjustment value in HFR format mode
	LEVEL DEPEND	–99 to +99, **0**	Absolute value is displayed in ABS mode.
		ON, OFF	
	ABS		Highlighted: ABS (Absolute) mode
<DETAIL 2> P10	H/V RATIO	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	FREQ	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	MIX RATIO	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	KNEE APT	–99 to +99, **0**	Absolute value is displayed in ABS mode.
		ON, **OFF**	
	DTL H/V MODE	**H/V**, V Only	
	INDEPENDENT	ON, **OFF**	
	ABS		Highlighted: ABS (Absolute) mode
<HD DETAIL> P11	LEVEL	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LIMITER [M]	–99 to +99, **0**	
	LIMITER [WHT]	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LIMITER [BLK]	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	CRISP	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LEVEL DEPEND	–99 to +99, **0**	Absolute value is displayed in ABS mode.
		ON, OFF	
	H/V RATIO	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	FREQ	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	MIX RATIO	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	KNEE APT	–99 to +99, **0**	Absolute value is displayed in ABS mode.
		ON, **OFF**	
	ABS		Highlighted: ABS (Absolute) mode
<4K DETAIL> P12	LEVEL	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LIMITER [M]	–99 to +99, **0**	
	LIMITER [WHT]	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LIMITER [BLK]	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	CRISP	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	LEVEL DEPEND	–99 to +99, **0**	Absolute value is displayed in ABS mode.
		ON, OFF	
	H/V RATIO	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	FREQ	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	MIX RATIO	–99 to +99, **0**	Absolute value is displayed in ABS mode.
	KNEE APT	–99 to +99, **0**	Absolute value is displayed in ABS mode.
		ON, **OFF**	
	ABS		Highlighted: ABS (Absolute) mode

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<SKIN DETAIL> P13	SKIN DTL	ON, **OFF**	
	SKIN GATE	**OFF**, 1, 2, 3, (MAT)	**1**, **2**, **3:** The skin gate function can be turned on for the specified channel only. **(MAT):** Displayed when GATE of <MULTI MATRIX> is ON.
	NATURAL SKINDTL	**OFF**, ON	
	ZOOM LINK	**OFF**, ON	
	TELE	0 to **99**	
	WIDE	**0** to 99	
	CH SW	1: (ON), 2/3: ON, **OFF**	Sets the skin tone detail function independently for each channel. (Channel 1 is always set to ON.) Absolute values are indicated for LEVEL only in ABS mode.
	HUE	1/2/3: Execute using ENTER.	
	PHASE	1/2/3: **0** to 359	
	WIDTH	1/2/3: 0 to 90, **29**	
	SAT	1/2/3: –99 to +99, **–89**	
	LEVEL	1/2/3: –99 to +99, **0**	
	Y LIMIT	1/2/3: **0** to 99	
	ABS		Highlighted: ABS (Absolute) mode
<USER MATRIX> P14	R-G	–99 to +99, **0**	
	R-B	–99 to +99, **0**	
	G-R	–99 to +99, **0**	
	G-B	–99 to +99, **0**	
	B-R	–99 to +99, **0**	
	B-G	–99 to +99, **0**	
	MATRIX	ON, **OFF**	
	PRESET	**---**, ON, OFF	
		---, SMPTE-240M, **ITU-709**, SMPTE-WIDE, NTSC, EBU, ITU-601, CUSTOM1, CUSTOM2, CUSTOM3, CUSTOM4, CUSTOM5	
	USER	**---**, ON, OFF	
	MULTI	**---**, ON, OFF	
	ADAPTIVE MATRIX	**OFF**, ON	
	LEVEL	0 to 7, **0**	
<MULTI MATRIX> P15	PHASE	**0**, 23, 45, 68, 90, 113, 135, 158, 180, 203, 225, 248, 270, 293, 315, 338	Selects an axis (angle) at PHASE for which the multimatrix adjustment to be made, and set HUE and SAT. (HUE and SAT can be adjusted independently for 16 axes.)
	HUE	–99 to +99, **0**	
	SAT	–99 to +99, **0**	
	ALL CLEAR	Execute using ENTER.	
	GATE	ON, **OFF**, (SKIN)	**(SKIN):** Displayed when SKIN GATE of <SKIN DETAIL> is ON.
	MATRIX	ON, **OFF**	
	PRESET	**---**, ON, OFF	
		---, SMPTE-240M, ITU-709, SMPTE-WIDE, NTSC, EBU, ITU-601, CUSTOM1, CUSTOM2, CUSTOM3, CUSTOM4, CUSTOM5	
	USER	**---**, ON, OFF	
	MULTI	**---**, ON, OFF	

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<SHUTTER> P16	SHUTTER	ON, **OFF**, (ON), (OFF)	Settings in ( ): When a remote control unit/panel or a CCU is not connected (cannot be changed)
		When imaging frequency is 60.00 Hz or 59.94 Hz: **1/100**, 1/125, 1/250, 1/500, 1/1000, 1/2000 When imaging frequency is 50 Hz: 1/60, **1/125**, 1/250, 1/500, 1/1000, 1/2000 When imaging frequency is 30.00 Hz or 29.97 Hz: 1/40, 1/60, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/2000 When imaging frequency is 25 Hz: 1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 When imaging frequency is 24 Hz or 23.98 Hz: 1/32, 1/48, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000	Step shutter selection
	ECS FREQ	When imaging frequency is 60.00 Hz: 60.13 Hz to 4600 Hz When imaging frequency is 59.94 Hz: **60.07** Hz to 4600 Hz When imaging frequency is 50 Hz: 50.12 Hz to 4600 Hz When imaging frequency is 30.00 Hz: 30.02 Hz to 2700 Hz When imaging frequency is 29.97 Hz: 29.99 Hz to 2700 Hz When imaging frequency is 25 Hz: 25.02 Hz to 2300 Hz When imaging frequency is 24 Hz: 24.02 Hz to 2200 Hz When imaging frequency is 23.98 Hz: 23.99 Hz to 2200 Hz	
<NOISE SUPPRESSION> P17	SUPPRESSION	**0** to 100%	
		ON, **OFF**	
<FLICKER REDUCTION> P18	REDUCTION	ON, **OFF**, (OFF)	**(OFF):** Displayed for normal speed formats other than HFR. **Note** When you turn REDUCTION ON or OFF, noise may be generated. This is not a malfunction.
	POWER LINE FREQUENCY	**50 Hz**, 60 Hz	Specifies the frequency of the lighting power source.
	MODE	**STANDARD**, ACM, (OFF)	**STANDARD:** Corrects flicker without adding an image. **ACM:** Corrects flicker by adding images. **(OFF):** Displayed for normal speed formats other than HFR.
	GAIN	–99 to +99, **0**	Enabled only when STANDARD is selected. Sets the correction gain.
	OFFSET	**0** to 99	Enabled only when STANDARD is selected. Sets the brightness level that invokes correction.
	ACM TYPE	**1**, 2, 3, 4	Enabled only when ACM is selected. Selects the combination of frames to add. More frames are added as the value increases.

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<HDR OPERATION> P19	HDR MODE	**OFF**, LIVE HDR, CINEMA, SG3 GRADE	Displays the CCU setting. **Note** When set to CINEMA or SG3 GRADE, there are restrictions on PAINT items that can be configured. "(--)" is displayed for functions that cannot be configured. For details, see *"PAINT item settings when HDR MODE is set to CINEMA or SG3 GRADE" (page 78)*.
	SDR GAIN	0.0 to –15.0 dB, **–6.0 dB**	Enabled only when LIVE HDR is selected. Gain setting applied to the SDR output.
	HDR CONTRAST	100 to 566%, **200%**	Enabled only when LIVE HDR is selected (display only). Sets the percentage in HDR which is equivalent to 100% brightness in SDR. Varies depending on SDR GAIN.
	HDR TARGET WHITE	99 to 765nit, **228nit**	Enabled only when LIVE HDR is selected (display only). Sets the number of nits in HDR which is equivalent to 100% brightness in SDR. Varies depending on SDR GAIN and HDR LOOK.
	HDR BLACK OFFSET	–10.0 to 30.0, **0.0**	Enabled only when LIVE HDR is selected. HDR output black offset
	HDR KNEE	**OFF**, ON	Enabled only when LIVE HDR is selected. KNEE setting applied for HDR
	POINT	–99 to 99, **0**	
	SLOPE	–99 to 99, **0**	
	HDR WHITE CLIP	**OFF**, ON	Enabled only when LIVE HDR is selected.
	LEVEL	–99 to 99, **0**	
	HDR BLACK CLIP	**OFF**, ON	Enabled only when LIVE HDR is selected. Sets whether to clip at 0% and lower in the HDR output. Set to OFF (fixed) when <OUTPUT FORMAT> → FREQUENCY → OETF is set to S-Log3.
	HDR BLACK COMPRESSION	**OFF**, ON	Enabled only when LIVE HDR is selected. Sets whether to compress low-luminance areas in the HDR output.
	SR LIVE LOCK	**OFF**, ON	Disabled if any of the following items are changed. GAMMA, KNEE, SDR GAIN, BLACK, HDR BLACK OFFSET, WHITE CLIP, HDR KNEE, HDR BLACK COMPRESSION

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<LIVE TONE CONTROL> P20	LIVE TONE CONTROL	**OFF**, ON	Sets the tone curve applied to both HDR output and SDR output. **Notes** • Set to OFF (fixed) when HDR USER GAMMA or USER GAMMA is set to ON. • BLACK GAMMA and HDR KNEE are set to OFF (fixed) when HDR USER GAMMA or USER GAMMA is set to ON.
	BASE	**OFF**, ON	
	LOW	**OFF**, ON	
	MID	**OFF**, ON	
	LEVEL		
	BASE	–99 to 99, **0**	Sets the tone curve levels for M, R, G, and B when LIVE TONE CONTROL is set to BASE.
	LOW	–99 to 99, **0**	Sets the tone curve levels for M, R, G, and B when LIVE TONE CONTROL is set to LOW.
	MID	–99 to 99, **0**	Sets the tone curve levels for M, R, G, and B when LIVE TONE CONTROL is set to MID.
	PARAM		
	BASE	–99 to 99, **0**	Sets the CURVE parameter when LIVE TONE CONTROL is set to BASE.
	LOW	–99 to 99, **0**	Sets the WIDTH parameter when LIVE TONE CONTROL is set to LOW.
	MID	–99 to 99, **0**	Sets the WIDTH and CENTER parameters when LIVE TONE CONTROL is set to MID.
<HDR USER GAMMA> P21	HDR USER GAMMA	**OFF**, ON	Turns the HDR user gamma function on/off (function which allows you to apply a user-created curve to HDR output).
	TABLE	**1** to 5	Selects the number of the curve to apply to HDR output.
	NAME		Displays the name of the selected curve.
	OETF		Displays the OETF corresponding to the selected curve. If this does not match the configured OETF, the intended picture will not be obtained.
	D-RANGE		Displays the dynamic range corresponding to the selected curve.
<OPTICAL FILTER> P22	ND	**1**, 2, 3, 4, 5	Sets the ND filter to use.
	CC	A, **B**, C, D	Sets the CC filter to use.
	VND TRANSMITTANCE	1/3.0 to 1/256, **1/3.0**	Sets the transmittance of the variable ND filter.

PAINT			
Page name Page No.	**Item**	**Settings**	**Description**
<SCENE FILE> P23	1		Stores and reads scene files (paint data): When storing a scene file in camera memory, specify the file number after executing STORE. When reading, specify the file number only.
	2		
	3		
	4		
	5		
	STORE	Execute using ENTER.	
	01	**01** to 32	
	STANDARD	Execute using ENTER.	Reads the standard paint data.
	IMPORT FROM USB	Execute using ENTER.	Loads 32 scene files from a USB drive to internal memory.
	EXPORT TO USB	Execute using ENTER.	Exports 32 scene files in the camera's memory to a USB drive.
	FILE ID	Max. 14 characters	Enters a comment for the scene files to be written to a USB drive. *See "To specify a character string" (page 37).*
	CAM CODE	Camera code	Display only
	DATE	Date	Display only
	DISSOLVE	**OFF**, ON	Switches scene files seamlessly.
	SPEED	0.2 to 2.8 (0.2 steps), 3 to 10 (1 steps), **0.2**	

PAINT item settings when HDR MODE is set to CINEMA or SG3 GRADE

Yes: Configurable No: Not configurable –: Not applicable

PAINT item	When HDR MODE is set to CINEMA			When HDR MODE is set to SG3 GRADE		
	Display on panel	SDR output video	CINEMA output video	Display on panel	SDR output video	SG3 GRADE output video
GAIN	Yes			Yes		
WHITE	Yes			Yes		
COLOR TEMP	Yes			Yes		
DETAIL	No	No	No	Yes	Yes	Yes
4K DETAIL	No	No	No	Yes	Yes	Yes
HD DETAIL	No	No	No	Yes	Yes	Yes
SKIN DETAIL	No	No	No	No	No	No
SATURATION	Yes	Yes	No	Yes	Yes	Yes
PRESET MATRIX	Yes[*1]	Yes[*1]	No	Yes[*1]	Yes[*1]	No
MULTI MATRIX	No	No	No	Yes	Yes	Yes
USER MATRIX	No	No	No	Yes	Yes	Yes
ADAPTIVE MATRIX	No	No	No	No	No	No
LOW KEY SAT	No	No	No	No	No	No
KNEE	Yes	Yes	No	Yes	Yes	No
AUTO KNEE	No	No	No	No	No	No
KNEE SAT	Yes	Yes	No	Yes	Yes	No
BLACK GAMMA	No	No	No	No	No	No
GAMMA	Yes	Yes	No	Yes	Yes	No
WHITE CLIP	No	No	No	No	No	No
BLACK	Yes	Yes	No	Yes	Yes	Yes
FLARE	Yes			Yes		
V MOD	Yes			Yes		
LIVE TONE CONTROL	No			No		
SDR GAIN	Yes[*3]	Yes[*3]	–	Yes	Yes	–
HDR BLACK OFFSET	No	–	No	Yes	–	Yes

PAINT item	When HDR MODE is set to CINEMA			When HDR MODE is set to SG3 GRADE		
	Display on panel	SDR output video	CINEMA output video	Display on panel	SDR output video	SG3 GRADE output video
HDR KNEE	No	–	No	No	–	No
HDR WHITE CLIP	No	–	No	No	–	No
HDR BLACK CLIP	No	–	No	No	–	No
HDR BLACK COMPRESSION	No	–	No	No	–	No
HDR USER GAMMA	No	–	No	No	–	No
HDR TARGET WHITE*2	No	–	–	No	–	–

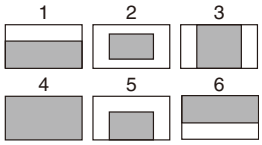
*1 ITU-709 ON/OFF switching only is supported

*2 Display only

*3 Supported in firmware version 3.30 and later. Set to 0.0 dB (fixed) in firmware version 3.20 and earlier.

MAINTENANCE Menu

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<AUTO SETUP> M01	AUTO BLACK	Execute using ENTER.	
	AUTO WHITE	Execute using ENTER.	
	AUTO LEVEL	Execute using ENTER.	
	TEST	**OFF**, SAW, 10STEP	
<WHITE SHADING> M02	V SAW	R/G/B: –99 to +99, **0**	R, G, and B values can be independently set.
	V PARA	R/G/B: –99 to +99, **0**	
	H SAW	R/G/B: –99 to +99, **0**	
	H PARA	R/G/B: –99 to +99, **0**	
	WHITE	R/G/B: –99 to +99, **0**	
<BLACK SHADING> M03	V SAW	R/G/B: –99 to +99, **0**	R, G, and B values can be independently set. M (master) value can also be set for BLACK.
	V PARA	R/G/B: –99 to +99, **0**	
	H SAW	R/G/B: –99 to +99, **0**	
	H PARA	R/G/B: –99 to +99, **0**	
	BLK SET	R/G/B: –99 to +99, **0**	
	BLACK	R/G/B: –99 to +99, **0** M: –99.9 to +99.9, **0.0**	
	MASTER GAIN	–6, –3, **0**, 3, 6, 9, 12 dB	Sets gain in step value changes.
<OHB MATRIX> M04	OHB MATRIX	**ON**, OFF	
	MATRIX	ON, **OFF**	

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<AUTO IRIS> M05	AUTO IRIS	ON, **OFF**, (ON), (OFF)	Settings in ( ): When a remote control unit/panel or a CCU is not connected (cannot be changed)
	WINDOW	**1**, 2, 3, 4, 5, 6	Selects the auto iris windows:  The shaded parts indicate the area where light detection occurs.
	OVERRIDE	–99 to 99, **0**, ---	Sets the override to temporarily change the reference value for brightness of the automatic iris level in the range of ±2 steps: –99: Two steps to fully closed iris. 99: Two steps to fully opened iris. ---: OFF The setting returns to "---" when the power is turned off.
	IRIS LEVEL	–99 to +99, **0**	±4 steps
	APL RATIO	–99 to +99, **65**	
	IRIS GAIN	–99 to +99, **0**	
	IRIS CLOSE	ON, **OFF**	
<LENS1> M06	F NO. DISP	**CONTROL**, RETURN	Selects the iris indication on the panel when AUTO IRIS is off: **CONTROL:** Displays the value from the camera. **RETURN:** Displays the value returned from the lens. (When AUTO IRIS is on, the value returned from the lens is always displayed.)
	AF DISPLAY	ON, **OFF**	
	ALAC	**AUTO**, OFF	With AUTO selected, the status is displayed at the right. (ACTIVE): Compensation is in progress. (WAIT): Waiting for completion of lens initialization. (STOP): Compensation is turned off for a non-applicable lens. The progress status is displayed while downloading ALAC data.
	F DROP COMP	**OFF**, ON, (OFF)	Turns F drop compensation on/off. During compensation, the compensation gain is displayed on the right. (OFF): For when a serial lens is not attached.
	MAX GAIN	**0.0** to 24.0 dB	Maximum compensation value
	DROP POINT	0 to 99, **50**	Compensation start point
	ROUNDNESS	**0.0** to 12.0 dB	Roundness of the compensation curve.
	STORE LENS FILE	Execute using ENTER.	Saves settings to a lens file.
	ARIA	AUTO, **OFF**	With AUTO selected, the status is displayed at the right. (ACTIVE): Compensation is in progress. (WAIT): Waiting for completion of lens initialization. (STOP): Compensation is turned off for a non-applicable lens. The progress status is displayed while downloading ARIA data.
	GAIN LIMIT	0 to 12 dB, **OFF**	Sets the maximum gain to compensate for F drop (No limit when set to OFF).

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<LENS2> M07	REMOTE CONTROL	**OFF**, ON, (OFF)	Lens remote control from MSU/RCP on/off setting. Same function as the Active button on the Zoom/ Focus Control screen of the MSU/RCP. (OFF): When lens is not supported
	CONTROL MODE	**ZOOM&FOCUS**, FOCUS, FOLLOW FOCUS	**ZOOM&FOCUS:** Control ZOOM and FOCUS from an MSU/RCP (control by lens demand is not supported) **FOCUS:** Control FOCUS from an MSU/RCP. ZOOM is controlled by lens demand. **FOLLOW FOCUS:** FOCUS is controlled by lens demand, but can be adjusted (offset fine adjustment) from an MSU/RCP. ZOOM is controlled by lens demand. **Note** Settings other than FOLLOW FOCUS cannot be modified when the offset is not 0 and REMOTE CONTROL is OFF. To change settings, set REMOTE CONTROL to ON.
	FOLLOW FOCUS		
	OFFSET ADJUST SENS	1, 2, **3**, 4, 5	Sets the sensitivity of superimposing the offset of the MSU.
	OFFSET CANCEL GAIN	1, 2, **3**, 4, 5	Sets the sensitivity of canceling the offset on the demand side.

MAINTENANCE			
Page name **Page No.**	**Item**	**Settings**	**Description**
<VIRTUAL IRIS> M08	VIRTUAL IRIS	ON, **OFF**	Turns the following function on/off. **When VIRTUAL IRIS MODE is set to NORMAL** • If you attempt to open the lens from the F value set using F No. UPPER LIMIT, the iris is locked in position and the image is brightened using digital gain instead. • When using a variable ND filter, if you attempt to close the lens from the F value set using F No. LOWER LIMIT, the iris is locked in position and the transmittance of the variable ND filter is reduced to darken the image instead. **When VIRTUAL IRIS MODE is set to DoF CTRL** • If you attempt to open the lens from the F value set using LENS IRIS, the iris is locked in position and digital gain is applied to brighten the image instead. • If you attempt to close the lens from the F value set using LENS IRIS, the iris is locked in position and the transmittance of the variable ND filter is reduced to darken the image instead.
	VIRTUAL IRIS MODE	**NORMAL**, DoF CTRL	DoF CTRL is configurable only when using a variable ND filter. Set to NORMAL (fixed) when the variable ND filter is in the CLEAR position.
	GAIN LIMIT	0dB to **9dB** to 18dB, OFF	Gain upper limit value
	EXTENDER COMP.	ON, **OFF**	• Set to ON when using a lens that automatically sets the F value of the iris to 1/2 in order to maintain the brightness before and after the built-in extender is enabled. Consequently, the F value set using F No. UPPER LIMIT is applied even when the lens extender is enabled. • Set to OFF if the lens does not support the compensation feature described above.
	F No. UPPER LIMIT	F1.4 to **F2.8** to F16	Configurable when VIRTUAL IRIS MODE is set to NORMAL. Sets the value of how far the lens can be opened (F value).
	F No. LOWER LIMIT	F1.4 to **F5.6** to CLS	Displayed only on the HDC5500V/3500V or when HKC-VND50 is installed. Configurable when VIRTUAL IRIS MODE is set to NORMAL. Sets the value of how far the lens can be closed.
	LENS IRIS	F1.4 to **F4.0** to F16	Configurable when VIRTUAL IRIS MODE is set to DoF CTRL. Sets the iris value (F value).
	VND TRANSMITTANCE		Displays the transmittance of the variable ND filter when VIRTUAL IRIS MODE is set to DoF CTRL.
	GAIN		Displays the gain value when VIRTUAL IRIS MODE is set to DoF CTRL.
	DoF PRESET		Configurable when VIRTUAL IRIS MODE is set to DoF CTRL.
	MAX SPEED	ON, **OFF**	Sets the DoF PRESET transition speed to maximum speed.
	SPEED	0 to 99, **50**	Sets the DoF PRESET transition speed.
	PRESET1	F1.4 to **F4.0** to F16	Sets the target LENS IRIS value (F value) of DoF PRESET transitions.
	PRESET2	F1.4 to **F4.0** to F16	
	PRESET3	F1.4 to **F4.0** to F16	
<MIC GAIN> M09	MIC1	20, 30, 40, 50, **60** dB	Can be modified only in standalone operation.
	MIC2	20, 30, 40, 50, **60** dB	

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<CAMERA NUMBER> M10	CAMERA NUMBER	**---**, 1 to 96	Sets the camera number. **Note** During system operation (when configured to send SYSCAM number using the MSU) or CCU operation, the value is displayed in parentheses and cannot be changed.
	CCU LINK	**OFF**, ON	Turns the link with the CCU No. on/off. When on, you can set the camera number from the CCU.
	LOCAL	**OFF**, ON	Sets number not linked to a system.
	OUTSIDE DISPLAY		
	CAMERA NUMBER	**OFF**, ON	Turns the camera number display on the side panel on/off. Displayed only on models that support OUTSIDE DISPLAY.
	X	–100 to 100, **0**	Sets the text position of the camera number (0: center position)
	Y	–100 to 100, **0**	Sets the text position of the camera number (0: center position)
	SIZE	0 to 150, **100**	Sets the text size of the camera number.
	BACKGROUND	READ LOGO	Import logo data (BMP file) to use for the background color. To import logo data into the camera, prepare monochrome 200×200 pixel data. Change the file name of the data to “logo.bmp”, copy the file to a USB drive, connect the drive to the unit, and then select READ LOGO in the menu.
		DELETE LOGO	Deletes the configured logo data.
<CALL/TALLY> M11	CCU CALL	OFF, **ON**	Selects whether TALLY lights for CALL signal.
	CAM CALL	**OFF**, ON	
	SIDE TALLY		Sets the display mode of the LED on the side panel.
	MODE	OFF, **TALLY**, LIGHT	**TALLY:** Function as a tally. **LIGHT:** Function as a light.
	BRIGHTNESS	0 to 100, **50**	Sets the brightness of the LED.
	TALLY GUARD		Selects whether to prevent changes while TALLY is lit.
	EXTENDER	**OFF**, ON	
	FILTER DISC	**OFF**, ON	
<HDLA TALLY> M12 Displayed only when HDLA-3501/3505 is attached.	UP TALLY		
	TALLY BRIGHTNESS	MIN, 1 to 100, **50**	
	NUMBER BRIGHTNESS	MIN, 1 to 100, **50**	
	NUMBER DISPLAY	OFF, ON, AUTO	
	SIDE TALLY		
	MODE	OFF, TALLY, LIGHT	
	BRIGHTNESS	MIN, 1 to 100, **50**	
	REAR TALLY		
	BRIGHTNESS	MIN, 1 to 100, **50**	

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<OUTPUT FORMAT> M13 (U12)	CURRENT	Display only	Displays the current format.
	RESOLUTION	3840×2160, **1920×1080**	Not displayed when a CCU is connected. System format settings (The selectable system formats vary depending on camera operating software options.)
	FREQUENCY	60.00P, **59.94P**, 50P, 30P, 29.97P, 25P, 24P, 23.98P, 59.94P(2×), 50P(2×), 59.94i(444), 50i(444), 29.97PsF(444), 25PsF(444), 24PsF(444), 23.98PsF(444)	
	OETF	**SDR**, S-Log3, HLG, S-Log3(Cinema), S-Log3(SG3 GRADE)	Not displayed when a CCU is connected. Sets the camera OETF. When S-Log3(Cinema) is selected, the unit functions in cinema mode and the following are set to OFF (fixed): • DETAIL, SKIN DETAIL, MULTI MATRIX, USER MATRIX, ADAPTIVE MATRIX, OHB MATRIX, LOW KEY SATURATION, AUTO KNEE, BLACK GAMMA, WHITE CLIP, LIVE TONE CONTROL, HDR BLACK OFFSET, HDR KNEE, HDR WHITE CLIP, HDR BLACK CLIP, HDR BLACK COMPRESSION, HDR USER GAMMA, HDR TARGET WHITE MASTER BLACK, SATUATION, and PRESET MATRIX settings are not applied to S-Log3 output, only to SDR. When S-Log3(SG3 GRADE) is selected, the following are set to OFF (fixed): • SKIN DETAIL, ADAPTIVE MATRIX, OHB MATRIX, LOW LEY SATUATION, AUTO KNEE, BLACK GAMMA, WHITE CLIP, HDR KNEE, HDR WHITE CLIP, HDR BLACK CLIP, HDR BLACK COMPRESSION, HDR USER GAMMA, HDR TARGET WHITE MASTER BLACK, SATUATION, and PRESET MATRIX settings are not applied to S-Log3 output, only to SDR.
	LOOK	-----, Live, Mild, Natural	Not displayed when a CCU is connected. Sets the Look of the HDR output. "-----" when OETF is set to SDR, S-Log3(Cinema), or S-Log3(SG3 GRADE).
	COLOR	**BT.709**, BT.2020, S-Gamut3, S-Gamut3.Cine, SG3(LIVE GRADE), SG3.Cine(LIVE GRADE)	Not displayed when a CCU is connected. Camera color gamut setting Set to BT.709 (fixed) when OETF is set to SDR. BT.709 or BT.2020 can be selected when OETF is set to S-Log3 or HLG. BT.2020, S-Gamut3, or S-Gamut3.Cine can be selected when OETF is set to S-Log3(Cinema). SG3(LIVE GRADE) or SG3.Cine(LIVE GRADE) can be selected when OETF is set to S-Log3(SG3 GRADE).
	BIT DEPTH	**10bit**, 12bit	Not displayed when a CCU is connected. Can be selected for RGB 444 only.
	60.00Hz	**DISABLE**, ENABLE	Not displayed when a CCU is connected. Not displayed when HKC-TR37 is installed. Sets whether to enable formats for shooting at 60.00 Hz.

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<TEST OUT> M14 (U13)	OUTPUT	Display only	Displays the current format.
	VBS-OUT		Displayed when OUTPUT is set to VBS.
	CHARACTER	ON, **OFF**	
	GAIN	–99 to +99, **0**	
	CHROMA	–99 to +99, **0**	
	SETUP	**OFF**, ON	
	DOWN CONVERTER		Displayed when OUTPUT is set to VBS.
	SELECT	**MAIN**, RET, VF	
	ASPECT	**SQ**, EC	Displayed when OUTPUT is set to VBS (NTSC).
	SYNC-OUT		Displayed when OUTPUT is set to SD-SYNC or HD-SYNC.
	V-PHASE	–999 to +999, **0**	
	H-PHASE	–999 to +999, **0**	
<SDI OUT> M15 (U14)	SDI-1	*See "SDI output format with master frequency of 1/1.001" (page 89).*	Sets the SDI-1 and SDI-2 output formats.
	SDI-2		
	SDI-3		
	SDI-MONI OUT	MAIN, **VF**, RET, SD-SDI, OFF	
	CHARACTER	ON, **OFF**	Displayed when SDI-MONI OUT is not set to VF.
	EMB AUDIO	**OFF**, MIC, PGM	
	TALLY	**OFF**, FRAME, BOX	Displayed when SDI-MONI OUT is not set to SD-SDI.
	MODE	**FILL**, BOX	
	SIZE	1 to 9, **5**	
	DOWN CONVERTER		Displayed when SDI-MONI OUT is set to SD-SDI.
	SELECT	**MAIN**, RET, VF	
	ASPECT	**SQ**, EC	
<META DATA > M16	LENS META DATA EMBED(SDI OUT)	ON, OFF	Select whether to embed lens information in SDI OUT.
<TRUNK> M17	TRUNK	**ON**, OFF	
	INTERFACE	**232c**, 422A	
	AUX REMOTE		Display only
	NETWORK TRUNK		Display only
	LINK		
<GENLOCK> M18	REFERENCE	INTERNAL, CCU, GENLOCK	Displays the synchronization status.
	GENLOCK	**ENABLE**, DISABLE	Not displayed when a CCU is connected.
	STATUS		
	FORMAT		
	PHASE		
	V	–1024 to 1023, **0**	
	H	–1700 to 1700, **0**	
<DATE> M19	DATE/TIME	2000 to 2035/01 to 12/00 to 31 00 to 23 : 00 to 59	
	DATE FORMAT	1 Y/Mn/D, 2 Mn/D, 3 D/M/Y 4 D/M, **5 M/D/Y**, 6 M/D	**Y:** Year **Mn:** Month (numeric) **M:** Month (English abbreviation) **D:** Day
<BATTERY ALARM> M20	BEFORE END	**11.5** to 17.0 V	
	END	**11.0** to 11.5 V	

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
ND CC ASSIGN M21	VND USER PRESET	**ON**, OFF	Displayed only when HKC-VND50 Variable ND Filter Unit is installed. Selects the method for assigning variable ND filter transmittance to ND filters 2 to 5. **ON:** Saves one value in ND2 and applies the configured value of transmittance when ND3 to 5 are pressed. If the transmittance is changed using ND3 to 5, the closest ND number is selected. **OFF:** Applies the configured value of transmittance when ND2 to 5 are pressed. If the transmittance is changed, the closest ND number is selected.
	1	(CLEAR)	State when variable ND filter is not attached. Cannot be changed.
	2	(MEMORY)	Set to (1/4) when VND USER PRESET is set to OFF.
	3	1/3 to **1/4** to 1/256	Set to (1/8) when VND USER PRESET is set to OFF.
	4	1/3 to **1/16** to 1/256	Set to (1/16) when VND USER PRESET is set to OFF.
	5	1/3 to **1/64** to 1/256	Set to (1/64) when VND USER PRESET is set to OFF.
	CC ASSIGN		Selects the function to assign to CC positions A to E.
	A	HDC5500V/3500V (serial numbers: 10001 to 10999, 30001 to 30999), or with HKC-VND50 installed (serial numbers: 10001 to 10999): OFF, **CROSS**, CLEAR, EXTRA OLPF, 3300K(ECC) to 8000K(ECC) HDC5500V/3500V (serial numbers: other than above), or with HKC-VND50 installed (serial numbers: other than above): OFF, **CROSS**, CLEAR, BLACK MIST, EXTRA OLPF, 3300K(ECC) to 8000K(ECC) HDC5500/3500 with HKC-VND50 not installed: OFF, **CROSS**, CLEAR, 4300K, 6300K, 3300K(ECC) to 8000K(ECC)	ECC: Electronic color compensation filter
	B	HDC5500V/3500V (serial numbers: 10001 to 10999, 30001 to 30999), or with HKC-VND50 installed (serial numbers: 10001 to 10999): OFF, CROSS, **CLEAR**, EXTRA OLPF, 3300K(ECC) to 8000K(ECC) HDC5500V/3500V (serial numbers: other than above), or with HKC-VND50 installed (serial numbers: other than above): OFF, CROSS, **CLEAR**, BLACK MIST, EXTRA OLPF, 3300K(ECC) to 8000K(ECC) HDC5500/3500 with HKC-VND50 not installed: OFF, CROSS, **CLEAR**, 4300K, 6300K, 3300K(ECC) to 8000K(ECC)	

MAINTENANCE			
Page name **Page No.**	**Item**	**Settings**	**Description**
ND CC ASSIGN M21	C	HDC5500V/3500V (serial numbers: 10001 to 10999, 30001 to 30999), or with HKC-VND50 installed (serial numbers: 10001 to 10999): OFF, CROSS, CLEAR, EXTRA OLPF, 3300K(ECC) to **4300K(ECC)** to 8000K(ECC) HDC5500V/3500V (serial numbers: other than above), or with HKC-VND50 installed (serial numbers: other than above): OFF, CROSS, CLEAR, **BLACK MIST**, EXTRA OLPF, 3300K(ECC) to 8000K(ECC) HDC5500/3500 with HKC-VND50 not installed: OFF, CROSS, CLEAR, **4300K**, 6300K, 3300K(ECC) to 8000K(ECC)	ECC: Electronic color compensation filter
	D	HDC5500V/3500V (serial numbers: 10001 to 10999, 30001 to 30999), or with HKC-VND50 installed (serial numbers: 10001 to 10999): OFF, CROSS, CLEAR, EXTRA OLPF, 3300K(ECC) to **6300K(ECC)** to 8000K(ECC) HDC5500V/3500V (serial numbers: other than above), or with HKC-VND50 installed (serial numbers: other than above): OFF, CROSS, CLEAR, BLACK MIST, **EXTRA OLPF**, 3300K(ECC) to 8000K(ECC) HDC5500/3500 with HKC-VND50 not installed: OFF, CROSS, CLEAR, 4300K, **6300K**, 3300K(ECC) to 8000K(ECC)	
	E	HDC5500V/3500V (serial numbers: 10001 to 10999, 30001 to 30999), or with HKC-VND50 installed (serial numbers: 10001 to 10999): OFF, CROSS, CLEAR, **EXTRA OLPF**, 3300K(ECC) to 8000K(ECC) HDC5500V/3500V (serial numbers: other than above), or with HKC-VND50 installed (serial numbers: other than above): **OFF**, CROSS, CLEAR, BLACK MIST, EXTRA OLPF, 3300K(ECC) to 8000K(ECC) HDC5500/3500 with HKC-VND50 not installed: **OFF**, CROSS, CLEAR, 4300K, 6300K, 3300K(ECC) to 8000K(ECC)	

MAINTENANCE			
Page name Page No.	**Item**	**Settings**	**Description**
<SIMPLE PROTOCOL> Displayed only in standalone operation.	TRANSPORT CONVERTER MODE	**DISABLE**, ENABLE	Enables transport conversion mode to enable camera control using transmission lines/networks with high latency, such as wireless transmission. **Note** When transport conversion mode is enabled, the WHITE BAL and other switches on the unit do not function.
	PORT	**REMOTE(RS-422A)**, CRANE(RS-422A), CRANE(RS-232C), WIRELESS SIDE PANEL(RS-422A), WIRELESS SIDE PANEL(RS-232C)	Sets the port to enable for transport conversion mode. WIRELESS SIDE PANEL(RS-422A) or WIRELESS SIDE PANEL(RS-232C) can be selected only when an HKC-WL50 Wireless Transmission Adaptor is installed.
	BAUDRATE	9.6kbps to 843.75kbps, **115.2kbps**	Communication speed
<OTHERS> M22	FAN MODE	OFF, **AUTO1**, AUTO2, MIN, MAX	**AUTO1:** Normal rotation **AUTO2:** Slow rotation
	CAM BARS	ON, **OFF**, (OFF)	**(OFF):** Displayed only for 4K/HDR format.
	WHITE SETUP MODE	AWB, **A.LVL**	
	STANDALONE PAINT SWITCH	**DISABLE**, ENABLE	When set to ENABLE, disables operation of the unit's switches, such as the WHITE BAL switch, even when a CCU or control panel is not connected.
	HD DOWNCONV FILTER	**1**, 2, 3, 4, 1(V0.3), 1(V0.6), (4)	**(4):** Displayed only for 4K/HDR format.
	TOP MENU LOCK	**OFF**, ON	Hides the TOP MENU when the camera starts up. To set TOP MENU LOCK to OFF, set CAMERA MENU CONTROL to OFF on the remote control panel.
<OPTION KEY> M23	IMPORT FROM USB	Execute using ENTER.	Imports an install key from a USB drive.
	EFFECTIVE FUNCTION		Displayed only when optional functions are installed.
<FIRMWARE> M24	VERSION	Display only	Displays the firmware version, date, and comments.
	UPDATE FROM USB	Execute using ENTER.	Updates the firmware from a USB flash drive. **Update method** 1. Copy "hdc3000_vx.xx.pkg" to the root folder of a USB flash drive, and connect the drive to the USB connector of the unit. 2. Select UPDATE FROM USB, and press the ENTER button. 3. When "READY TO INSTALL" is displayed, select EXEC and press the ENTER button. **Notes** • Do not turn off the unit until the update has been completed. • For details about obtaining a data file for batch updates, contact a Sony sales representative. • For recommended USB flash drives, see *"Using a USB Drive" (page 124).*
	EXPORT OSS LICENSE TO USB	Execute using ENTER.	Copies the OSS license document to a USB flash drive.

SDI output format with master frequency of 1/1.001

The following table shows the SDI output formats when the master frequency is 1/1.001.
The SDI output format will vary depending on the combination of camera model, transmission adaptor, and camera operating software.

1. Using HDC5500/5500V/3500/3500V with HKC-CN50 and HKC-FB50 installed

<Standard format>

SYSTEM FORMAT		HDR/SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF**	–	**OFF**	–
			HD/3G-A/HDR	1920×1080/59.94P	HD/3G-A/HDR	1920×1080/59.94P
			HD/3G-A/SDR	1920×1080/59.94P	HD/3G-A/SDR	1920×1080/59.94P
			HD/3G-B/HDR	1920×1080/59.94P	HD/3G-B/HDR	1920×1080/59.94P
			HD/3G-B/SDR	1920×1080/59.94P	HD/3G-B/SDR	1920×1080/59.94P
			HD/1.5G/SDR	1920×1080/59.94i	HD/1.5G/SDR	1920×1080/59.94i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–
		SDR	**OFF**	–	**OFF**	–
			HD/3G-A/SDR	1920×1080/59.94P	HD/3G-A/SDR	1920×1080/59.94P
			HD/3G-B/SDR	1920×1080/59.94P	HD/3G-B/SDR	1920×1080/59.94P
			HD/1.5G/SDR	1920×1080/59.94i	HD/1.5G/SDR	1920×1080/59.94i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	29.97PsF	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/29.97PsF 1920×1080/29.97PsF –	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/29.97PsF 1920×1080/29.97PsF – – – – –
		SDR	**OFF** HD/1.5G/SDR UHD PROMPTER	– 1920×1080/29.97PsF –	**OFF** HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/29.97PsF – – – – –
	23.98PsF	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/23.98PsF 1920×1080/23.98PsF –	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/23.98PsF 1920×1080/23.98PsF – – – – –
		SDR	**OFF** HD/1.5G/SDR UHD PROMPTER	– 1920×1080/23.98PsF –	**OFF** HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/23.98PsF – – – – –
	29.97PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/29.97PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/29.97PsF(444) – – – – –
	23.98PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/23.98PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/23.98PsF(444) – – – – –

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-HFR50/HFR50M/HFR50W/HFR50P is installed>

SYSTEM FORMAT		HDR/SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/12G/HDR/HFR HD/3G-A/HDR/HFR HD/3G-B/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P/Link A-B 1920×1080/59.94P/Link A 1920×1080/59.94P/Link A 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/12G/HDR/HFR HD/3G-A/HDR/HFR HD/3G-B/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94P/Link A-B 1920×1080/59.94P/Link B 1920×1080/59.94P/Link B 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
		SDR	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR/HFR HD/3G-B/SDR/HFR HD/3G-B/SDR/HFR(i) HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P/Link A-B 1920×1080/59.94P/Link A 1920×1080/59.94P/Link A 1920×1080/59.94i/Link A-B 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR/HFR HD/3G-B/SDR/HFR HD/3G-B/SDR/HFR(i) HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94P/Link A-B 1920×1080/59.94P/Link B 1920×1080/59.94P/Link B 1920×1080/59.94i/Link A-B 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
	59.94P(3×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P/Link A-C 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94P/Link A-C 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
		SDR	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P/Link A-C 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94P/Link A-C 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –

SYSTEM FORMAT		HDR/SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P(4×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P/Link A-D 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94P/Link A-D 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
		SDR	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P/Link A-D 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94P/Link A-D 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
	59.94P(6×)	All OETF	**OFF**	–	**OFF** HD/UHD TRUNK(1.5G) IN *4	–
	59.94P(8×)	All OETF	**OFF**	–	**OFF** HD/UHD TRUNK(1.5G) IN *4	–
3840×2160	59.94P(2×) (HZC-UHD50 is required)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/59.94P/Link A 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/59.94P/Link B 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – –
		SDR	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/59.94P/Link A 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/59.94P/Link B 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – –
	59.94P(3×)/ (4×) *2 (HXC-UHD50 is required)		**OFF** HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR	– 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-DFR50/DFR50M/DFR50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF**	–	**OFF**	–
			HD/12G/HDR/HFR	1920×1080/59.94P/Link A-B	HD/12G/HDR/HFR	1920×1080/59.94P/Link A-B
			HD/3G-A/HDR/HFR	1920×1080/59.94P/Link A	HD/3G-A/HDR/HFR	1920×1080/59.94P/Link B
			HD/3G-B/HDR/HFR	1920×1080/59.94P/Link A	HD/3G-B/HDR/HFR	1920×1080/59.94P/Link B
			HD/3G-A/SDR	1920×1080/59.94P	HD/3G-A/SDR	1920×1080/59.94P
			HD/3G-B/SDR	1920×1080/59.94P	HD/3G-B/SDR	1920×1080/59.94P
			HD/1.5G/SDR	1920×1080/59.94i	HD/1.5G/SDR	1920×1080/59.94i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–
		SDR	**OFF**	–	**OFF**	–
			HD/12G/SDR/HFR	1920×1080/59.94P/Link A-B	HD/12G/SDR/HFR	1920×1080/59.94P/Link A-B
			HD/3G-A/SDR/HFR	1920×1080/59.94P/Link A	HD/3G-A/SDR/HFR	1920×1080/59.94P/Link B
			HD/3G-B/SDR/HFR	1920×1080/59.94P/Link A	HD/3G-B/SDR/HFR	1920×1080/59.94P/Link B
			HD/3G-B/SDR/HFR(i)	1920×1080/59.94i/Link A-B	HD/3G-B/SDR/HFR(i)	1920×1080/59.94i/Link A-B
			HD/3G-A/SDR	1920×1080/59.94P	HD/3G-A/SDR	1920×1080/59.94P
			HD/3G-B/SDR	1920×1080/59.94P	HD/3G-B/SDR	1920×1080/59.94P
			HD/1.5G/SDR	1920×1080/59.94i	HD/1.5G/SDR	1920×1080/59.94i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-UG50/UG50M/UG50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94i(444)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/59.94i(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/59.94i(444) – – – – –
	29.97PsF(444) (HZC-PSF50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/29.97PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/29.97PsF(444) – – – – –
	23.98PsF(444) (HZC-PSF50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/23.98PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/23.98PsF(444) – – – – –

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-UHD50/UHD50M/UHD50W/UHD50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
3840×2160	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
		SDR	**OFF** 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – – – – –
	29.97P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/6G/HDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/29.97P 1920×1080/29.97PsF –	**OFF** 4K/6G/HDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/29.97P 1920×1080/29.97PsF – – – – –
		SDR	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/29.97P 1920×1080/29.97PsF –	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/29.97P 1920×1080/29.97PsF – – – – –
	23.98P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/23.98P 1920×1080/23.98PsF –	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/23.98P 1920×1080/23.98PsF – – – – –
		SDR	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/23.98P 1920×1080/23.98PsF –	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/23.98P 1920×1080/23.98PsF – – – – –

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
3840×2160	59.94P(2×) (HZC-HFR50 is required)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/59.94P/Link A 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/59.94P/Link B 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – –
		SDR	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/59.94P/Link A 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i –	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/59.94P/Link B 3840×2160/59.94P 1920×1080/59.94P 1920×1080/59.94P 1920×1080/59.94i – –

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

2. Using HDC3500/3500V (or HDC3500 serial number 20000 series, with HKC-CN50 and HKC-FB30 installed)

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94i	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/59.94i –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94i – –
1280×720	59.94P	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1280×720/59.94P –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1280×720/59.94P – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	29.97PsF	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/29.97PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/29.97PsF – –
	23.98PsF	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/23.98PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/23.98PsF – –
	29.97P (4K/HDR) *1	Set by CCU	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/29.97PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN	– 1920×1080/29.97PsF (DISABLED)
	23.98P (4K/HDR) *1	Set by CCU	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/23.98PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN	– 1920×1080/23.98PsF (DISABLED)
	29.97PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/29.97PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/29.97PsF(444) – –
	23.98PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/23.98PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/23.98PsF(444) – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-PRV50/PRV50M/PRV50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/HDR HD/3G-B/HDR RET IN	– 1920×1080/59.94P 1920×1080/59.94P –
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94P 1920×1080/59.94P – –
	59.94P (4K/HDR) *1	Set by CCU	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN	– 1920×1080/59.94P 1920×1080/59.94P –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-HFR50/HFR50M/HFR50W/HFR50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94i(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR(i) HD PROMPTER	– 1920×1080/59.94i/Link A-B –	**OFF** HD/3G-B/SDR/HFR(i) HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94i/Link A-B – –
	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/HDR HD/3G-B/HDR RET IN	– 1920×1080/59.94P 1920×1080/59.94P –
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94P 1920×1080/59.94P – –
	59.94P (4K/HDR) *1	Set by CCU	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN	– 1920×1080/59.94P 1920×1080/59.94P –
1280×720	59.94P(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR HD PROMPTER	– 1280×720/59.94P/Link A-B –	**OFF** HD/3G-B/SDR/HFR HD TRUNK IN *1 RET IN *2	– 1280×720/59.94P/Link A-B – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-DFR50/DFR50M/DFR50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94i(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR(i) HD PROMPTER	– 1920×1080/59.94i/Link A-B –	**OFF** HD/3G-B/SDR/HFR(i) HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94i/Link A-B – –
1280×720	59.94P(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR HD PROMPTER	– 1280×720/59.94P/Link A-B –	**OFF** HD/3G-B/SDR/HFR HD TRUNK IN *1 RET IN *2	– 1280×720/59.94P/Link A-B – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-UHD50/UHD50M/UHD50W/UHD50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/HDR HD/3G-B/HDR RET IN	– 1920×1080/59.94P 1920×1080/59.94P –
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94P 1920×1080/59.94P – –
	59.94P (4K/HDR) *1	Set by CCU	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94P 1920×1080/59.94P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN	– 1920×1080/59.94P 1920×1080/59.94P –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-UG50/UG50M/UG50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94i(444)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/59.94i(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/59.94i(444) – –
	29.97PsF(444)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/29.97PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/29.97PsF(444) – –
	23.98PsF(444)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/23.98PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/23.98PsF(444) – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

3. Using HDC3500/3500V with HKC-CN50 and HKC-TR37 installed for digital triax transmission (equivalent to HDC3170)

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT	
			SDI-1	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR	– 1920×1080/59.94P 1920×1080/59.94P
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR	– 1920×1080/59.94P 1920×1080/59.94P
	59.94P(4K/HDR) *1	Set by CCU	**OFF**	–
	59.94i *2	SDR (fixed)	**OFF** HD/1.5G/SDR	– 1920×1080/59.94i
1280×720 *2	59.94P	SDR (fixed)	**OFF** HD/1.5G/SDR	– 1280×720/59.94P

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT	
			SDI-1	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats
1920×1080	29.97PsF	SDR (fixed)	**OFF** HD/1.5G/SDR	– 1920×1080/29.97PsF
	29.97P (4K/HDR) *1	Set by CCU	**OFF**	–

*1 Can be selected only when a CCU is connected.

4. Using HDC3500/3500V with HKC-CN50 and HKC-WL50 installed

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94i	SDR (fixed)	HD/1.5G/SDR	1920×1080/59.94i	**OFF** HD RETURN IN	– –
1280×720	59.94P	SDR (fixed)	HD/1.5G/SDR	1280×720/59.94P	**OFF** HD RETURN IN	– –

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	29.97PsF	SDR (fixed)	HD/1.5G/SDR	1920×1080/29.97PsF	**OFF** HD RETURN IN	– –
	23.98PsF	SDR (fixed)	HD/1.5G/SDR	1920×1080/23.98PsF	**OFF** HD RETURN IN	– –

<When HZC-PRV50/PRV50M/PRV50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-B/HDR	1920×1080/59.94P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/59.94P
		SDR	HD/3G-B/SDR	1920×1080/59.94P	**OFF** HD RETURN IN	– –

<When HZC-HFR50/HFR50M/HFR50W/HFR50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-B/HDR	1920×1080/59.94P	**OFF** HD RETURN IN	– –
		SDR	HD/3G-B/SDR	1920×1080/59.94P	**OFF** HD RETURN IN	– –
	59.94P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/59.94P/Link A-B	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/59.94P/Link A-B	**OFF** HD RETURN IN	– –
	59.94P(3×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/59.94P/Link A-C	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/59.94P/Link A-C	**OFF** HD RETURN IN	– –
	59.94P(4×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/59.94P/Link A-D	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/59.94P/Link A-D	**OFF** HD RETURN IN	– –

<When HZC-DFR50/DFR50M/DFR50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	59.94P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/59.94P/Link A-B	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/59.94P/Link A-B	**OFF** HD RETURN IN	– –

<When HZC-UHD50/UHD50M/UHD50W/UHD50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
3840×2160	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	4K/12G/HDR 4K/3G-A/HDR	3840×2160/59.94P 3840×2160/59.94P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/59.94P
		SDR	4K/12G/SDR 4K/3G-A/SDR	3840×2160/59.94P 3840×2160/59.94P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/59.94P
1920×1080	59.94P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-B/HDR	1920×1080/59.94P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/59.94P
		SDR	HD/3G-B/SDR	1920×1080/59.94P	**OFF** HD RETURN IN	– –

SDI output format with master frequency of 1/1.000

The following table shows the SDI output formats when the master frequency is 1/1.000.
The SDI output format will vary depending on the combination of camera model, transmission adaptor, and camera operating software.

1. Using HDC5500/5500V or HDC3500/3500V with HKC-CN50 and HKC-FB50 installed

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF**	–	**OFF**	–
			HD/3G-A/HDR	1920×1080/50P	HD/3G-A/HDR	1920×1080/50P
			HD/3G-A/SDR	1920×1080/50P	HD/3G-A/SDR	1920×1080/50P
			HD/3G-B/HDR	1920×1080/50P	HD/3G-B/HDR	1920×1080/50P
			HD/3G-B/SDR	1920×1080/50P	HD/3G-B/SDR	1920×1080/50P
			HD/1.5G/SDR	1920×1080/50i	HD/1.5G/SDR	1920×1080/50i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–
		SDR	**OFF**	–	**OFF**	–
			HD/3G-A/SDR	1920×1080/50P	HD/3G-A/SDR	1920×1080/50P
			HD/3G-B/SDR	1920×1080/50P	HD/3G-B/SDR	1920×1080/50P
			HD/1.5G/SDR	1920×1080/50i	HD/1.5G/SDR	1920×1080/50i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	25PsF	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/25PsF 1920×1080/25PsF –	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/25PsF 1920×1080/25PsF – – – – –
		SDR	**OFF** HD/1.5G/SDR UHD PROMPTER	– 1920×1080/25PsF –	**OFF** HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/25PsF – – – – –
	24PsF	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/24PsF 1920×1080/24PsF –	**OFF** HD/1.5G/HDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/24PsF 1920×1080/24PsF – – – – –
		SDR	**OFF** HD/1.5G/SDR UHD PROMPTER	– 1920×1080/24PsF –	**OFF** HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/24PsF – – – – –
	25PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/25PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/25PsF(444) – – – – –
	24PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/24PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/24PsF(444) – – – – –

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-HFR50/HFR50M/HFR50W/HFR50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/12G/HDR/HFR HD/3G-A/HDR/HFR HD/3G-B/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P/Link A-B 1920×1080/50P/Link A 1920×1080/50P/Link A 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/12G/HDR/HFR HD/3G-A/HDR/HFR HD/3G-B/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50P/Link A-B 1920×1080/50P/Link B 1920×1080/50P/Link B 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
		SDR	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR/HFR HD/3G-B/SDR/HFR HD/3G-B/SDR/HFR(i) HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P/Link A-B 1920×1080/50P/Link A 1920×1080/50P/Link A 1920×1080/50i/Link A-B 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR/HFR HD/3G-B/SDR/HFR HD/3G-B/SDR/HFR(i) HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50P/Link A-B 1920×1080/50P/Link B 1920×1080/50P/Link B 1920×1080/50i/Link A-B 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
	50P(3×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P/Link A-C 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50P/Link A-C 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
		SDR	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P/Link A-C 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50P/Link A-C 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P(4×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P/Link A-D 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/12G/HDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50P/Link A-D 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
		SDR	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P/Link A-D 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/12G/SDR/HFR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50P/Link A-D 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
	50P(6×)	All OETF	**OFF**	–	**OFF** HD/UHD TRUNK(1.5G) IN *4	–
	50P(8×)	All OETF	**OFF**	–	**OFF** HD/UHD TRUNK(1.5G) IN *4	–
3840×2160	50P(2×) (HZC-UHD50 is required)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/50P/Link A 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/50P/Link B 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i – –
		SDR	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/50P/Link A 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/50P/Link B 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i – –
	50P(3×)/(4×) *2 (HXC-UHD50 is required)		**OFF** HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR	– 1920×1080/50P 1920×1080/50P 1920×1080/50i

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-DFR50/DFR50M/DFR50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF**	–	**OFF**	–
			HD/12G/HDR/HFR	1920×1080/50P/Link A-B	HD/12G/HDR/HFR	1920×1080/50P/Link A-B
			HD/3G-A/HDR/HFR	1920×1080/50P/Link A	HD/3G-A/HDR/HFR	1920×1080/50P/Link B
			HD/3G-B/HDR/HFR	1920×1080/50P/Link A	HD/3G-B/HDR/HFR	1920×1080/50P/Link B
			HD/3G-A/SDR	1920×1080/50P	HD/3G-A/SDR	1920×1080/50P
			HD/3G-B/SDR	1920×1080/50P	HD/3G-B/SDR	1920×1080/50P
			HD/1.5G/SDR	1920×1080/50i	HD/1.5G/SDR	1920×1080/50i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–
		SDR	**OFF**	–	**OFF**	–
			HD/12G/SDR/HFR	1920×1080/50P/Link A-B	HD/12G/SDR/HFR	1920×1080/50P/Link A-B
			HD/3G-A/SDR/HFR	1920×1080/50P/Link A	HD/3G-A/SDR/HFR	1920×1080/50P/Link B
			HD/3G-B/SDR/HFR	1920×1080/50P/Link A	HD/3G-B/SDR/HFR	1920×1080/50P/Link B
			HD/3G-B/SDR/HFR(i)	1920×1080/50i/Link A-B	HD/3G-B/SDR/HFR(i)	1920×1080/50i/Link A-B
			HD/3G-A/SDR	1920×1080/50P	HD/3G-A/SDR	1920×1080/50P
			HD/3G-B/SDR	1920×1080/50P	HD/3G-B/SDR	1920×1080/50P
			HD/1.5G/SDR	1920×1080/50i	HD/1.5G/SDR	1920×1080/50i
			UHD PROMPTER	–	UHD TRUNK(12G) IN *1 *2 *4	–
					UHD TRUNK(6G) IN *1 *2 *4	–
					UHD TRUNK(3G) IN *1 *2 *4	–
					HD/UHD TRUNK(1.5G) IN *2 *4	–
					HD RETURN IN *3	–

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-UG50/UG50M/UG50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50i(444)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/50i(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/50i(444) – – – – –
	25PsF(444) (HZC-PSF50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/25PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/25PsF(444) – – – – –
	24PsF(444) (HZC-PSF50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR UHD PROMPTER	– 1920×1080/24PsF(444) –	**OFF** HD/3G-B/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 1920×1080/24PsF(444) – – – – –

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

<When HZC-UHD50/UHD50M/UHD50W/UHD50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
3840×2160	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
		SDR	**OFF** 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i – – – – –
	25P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/6G/HDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/25P 1920×1080/25PsF –	**OFF** 4K/6G/HDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/25P 1920×1080/25PsF – – – – –
		SDR	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/25P 1920×1080/25PsF –	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/25P 1920×1080/25PsF – – – – –
	24P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/24P 1920×1080/24PsF –	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/24P 1920×1080/24PsF – – – – –
		SDR	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/24P 1920×1080/24PsF –	**OFF** 4K/6G/SDR HD/1.5G/SDR UHD TRUNK(12G) IN *1 *2 *4 UHD TRUNK(6G) IN *1 *2 *4 UHD TRUNK(3G) IN *1 *2 *4 HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/24P 1920×1080/24PsF – – – – –

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
3840×2160	50P(2×) (HZC-HFR50 is required)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/50P/Link A 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** 4K/12G/HDR/HFR 4K/12G/HDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD RETURN IN *3	– 3840×2160/50P/Link B 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i – –
		SDR	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR UHD PROMPTER	– 3840×2160/50P/Link A 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i –	**OFF** 4K/12G/SDR/HFR 4K/12G/SDR HD/3G-A/SDR HD/3G-B/SDR HD/1.5G/SDR HD/UHD TRUNK(1.5G) IN *2 *4 HD TRUNK IN *3	– 3840×2160/50P/Link B 3840×2160/50P 1920×1080/50P 1920×1080/50P 1920×1080/50i – –

*1 Can be selected only when NETWORK TRUNK > DATA RATE (setting on the CCU) is set to 100 Mbps.

*2 Can be selected only when a CCU is connected.

*3 Can be selected only in standalone operation.

*4 When set for UHD TRUNK or HD/UHD TRUNK, the frame synchronizer (FS) function which synchronizes the TRUNK signal to the frame cycle can be turned on/off.

2. Using HDC3500 (or HDC3500 serial number 20000 series, with HKC-CN50 and HKC-FB30 installed)

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50i	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/50i –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/50i – –
1280×720	50P	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1280×720/50P –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1280×720/50P – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	25PsF	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/25PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/25PsF – –
	24PsF	SDR (fixed)	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/24PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/24PsF – –
	25P (4K/HDR) *1	Set by CCU	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/25PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN	– 1920×1080/25PsF (DISABLED)
	24P (4K/HDR) *1	Set by CCU	**OFF** HD/1.5G/SDR HD PROMPTER	– 1920×1080/24PsF –	**OFF** HD/1.5G/SDR HD TRUNK IN	– 1920×1080/24PsF (DISABLED)
	25PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/25PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/25PsF(444) – –
	24PsF(444) (HZC-UG50 is required)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/24PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/24PsF(444) – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-PRV50/PRV50M/PRV50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/HDR HD/3G-B/HDR RET IN	– 1920×1080/50P 1920×1080/50P –
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/50P 1920×1080/50P – –
	50P (4K/HDR) *1	Set by CCU	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN	– 1920×1080/50P 1920×1080/50P –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-HFR50/HFR50M/HFR50W/HFR50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50i(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR(i) HD PROMPTER	– 1920×1080/50i/Link A-B –	**OFF** HD/3G-B/SDR/HFR(i) HD TRUNK IN *1 RET IN *2	– 1920×1080/50i/Link A-B – –
	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/HDR HD/3G-B/HDR RET IN	– 1920×1080/50P 1920×1080/50P –
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/50P 1920×1080/50P – –
	50P (4K/HDR) *1	Set by CCU	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN	– 1920×1080/50P 1920×1080/50P –
1280×720	50P(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR HD PROMPTER	– 1280×720/50P/Link A-B –	**OFF** HD/3G-B/SDR/HFR HD TRUNK IN *1 RET IN *2	– 1280×720/50P/Link A-B – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-DFR50/DFR50M/DFR50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50i(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR(i) HD PROMPTER	– 1920×1080/50i/Link A-B –	**OFF** HD/3G-B/SDR/HFR(i) HD TRUNK IN *1 RET IN *2	– 1920×1080/50i/Link A-B – –
1280×720	50P(2×)	SDR (fixed)	**OFF** HD/3G-B/SDR/HFR HD PROMPTER	– 1280×720/50P/Link A-B –	**OFF** HD/3G-B/SDR/HFR HD TRUNK IN *1 RET IN *2	– 1280×720/50P/Link A-B – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-UHD50/UHD50M/UHD50W/UHD50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/HDR HD/3G-B/HDR RET IN	– 1920×1080/50P 1920×1080/50P –
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/50P 1920×1080/50P – –
	50P (4K/HDR) *1	Set by CCU	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD PROMPTER	– 1920×1080/50P 1920×1080/50P –	**OFF** HD/3G-A/SDR HD/3G-B/SDR HD TRUNK IN	– 1920×1080/50P 1920×1080/50P –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-UG50/UG50M/UG50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50i(444)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/50i(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/50i(444) – –
	25PsF(444)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/25PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/25PsF(444) – –
	24PsF(444)	SDR (fixed)	**OFF** HD/3G-B/SDR HD PROMPTER	– 1920×1080/24PsF(444) –	**OFF** HD/3G-B/SDR HD TRUNK IN *1 RET IN *2	– 1920×1080/24PsF(444) – –

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

3. Using HDC3500/3500V with HKC-CN50 and HKC-TR37 installed for digital triax transmission (equivalent to HDC3170)

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT	
			SDI-1	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade) *2	**OFF** HD/3G-A/HDR HD/3G-B/HDR	– 1920×1080/50P 1920×1080/50P
		SDR	**OFF** HD/3G-A/SDR HD/3G-B/SDR	– 1920×1080/50P 1920×1080/50P
	50P(4K/HDR) *1	Set by CCU	**OFF**	–
	50i *2	SDR (fixed)	**OFF** HD/1.5G/SDR	– 1920×1080/50i
1280×720 *2	50P	SDR (fixed)	**OFF** HD/1.5G/SDR	– 1280×720/50P

*1 Can be selected only when a CCU is connected.

*2 Can be selected only in standalone operation.

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT	
			SDI-1	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats
1920×1080	25PsF	SDR (fixed)	**OFF** HD/1.5G/SDR	– 1920×1080/25PsF
	25P (4K/HDR) *1	Set by CCU	**OFF**	–

*1 Can be selected only when a CCU is connected.

4. Using HDC3500/3500V with HKC-CN50 and HKC-WL50 installed

<Standard format>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50i	SDR (fixed)	HD/1.5G/SDR	1920×1080/50i	**OFF** HD RETURN IN	– –
1280×720	50P	SDR (fixed)	HD/1.5G/SDR	1280×720/50P	**OFF** HD RETURN IN	– –

<When HZC-PSF50/PSF50M/PSF50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	25PsF	SDR (fixed)	HD/1.5G/SDR	1920×1080/25PsF	**OFF** HD RETURN IN	– –
	24PsF	SDR (fixed)	HD/1.5G/SDR	1920×1080/24PsF	**OFF** HD RETURN IN	– –

<When HZC-PRV50/PRV50M/PRV50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-B/HDR	1920×1080/50P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/50P
		SDR	HD/3G-B/SDR	1920×1080/50P	**OFF** HD RETURN IN	– –

<When HZC-HFR50/HFR50M/HFR50W/HFR50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-B/HDR	1920×1080/50P	**OFF** HD RETURN IN	– –
		SDR	HD/3G-B/SDR	1920×1080/50P	**OFF** HD RETURN IN	– –
	50P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/50P/Link A-B	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/50P/Link A-B	**OFF** HD RETURN IN	– –
	50P(3×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/50P/Link A-C	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/50P/Link A-C	**OFF** HD RETURN IN	– –
	50P(4×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/50P/Link A-D	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/50P/Link A-D	**OFF** HD RETURN IN	– –

<When HZC-DFR50/DFR50M/DFR50W is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
1920×1080	50P(2×)	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-A/HDR/HFR	1920×1080/50P/Link A-B	**OFF** HD RETURN IN	– –
		SDR	HD/3G-A/SDR/HFR	1920×1080/50P/Link A-B	**OFF** HD RETURN IN	– –

<When HZC-UHD50/UHD50M/UHD50W/UHD50P is installed>

SYSTEM FORMAT		HDR/ SDR	OUTPUT FORMAT			
			SDI-1		SDI-2	
RESOLUTION	FREQUENCY	OETF	Settings	Output formats	Settings	Output formats
3840×2160	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	4K/12G/HDR 4K/3G-A/HDR	3840×2160/50P 3840×2160/50P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/50P
		SDR	4K/12G/SDR 4K/3G-A/SDR	3840×2160/50P 3840×2160/50P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/50P
1920×1080	50P	S-Log3/ HLG/ S-log3 (Cinema)/ S-log3 (SG3 Grade)	HD/3G-B/HDR	1920×1080/50P	**OFF** HD RETURN IN HD/3G-B/SDR	– – 1920×1080/50P
		SDR	HD/3G-B/SDR	1920×1080/50P	**OFF** HD RETURN IN	– –

FILE Menu

Seven types of files can be used for easy adjustments of the camera: Operator, Scene, Reference, Lens, OHB, Matrix, and BOX cursor files.

You can store the items set with the OPERATION menu and customized USER menu in the Operator file.

For the specific items included in these files, refer to the Maintenance Manual.

FILE			
Page name Page No.	**Item**	**Settings**	**Description**
<OPERATOR FILE> F01	IMPORT FROM USB	Execute using ENTER.	Imports an operator file from a USB drive.
	EXPORT TO USB	Execute using ENTER.	Exports the current settings of the operator file items to a USB drive.
	PRESET	Execute using ENTER.	Sets the operator file items to the preset values in internal memory.
	STORE PRESET FILE	Execute using ENTER.	Stores the current settings of the operator file items in the operator file in internal memory.
	CLEAR PRESET FILE	Execute using ENTER.	Restores the operator file items stored in memory in the unit to the preset values.
<SCENE FILE> F02	1		Stores and reads scene files (paint data): When storing a scene file in camera memory, specify the file number after executing STORE. When reading, specify the file number only.
	2		
	3		
	4		
	5		
	STORE	Execute using ENTER.	
	01	**01** to 32	
	STANDARD	Execute using ENTER.	Reads the standard paint data.
	IMPORT FROM USB	Execute using ENTER.	Loads 32 scene files from a USB drive to internal memory.
	EXPORT TO USB	Execute using ENTER.	Exports 32 scene files in the camera's memory to a USB drive.
	FILE ID	Max. 14 characters	Enters a comment for the scene files to be written to a USB drive. *See "To specify a character string" (page 37).*
	CAM CODE	Camera code	Display only
	DATE	Date	Display only
	DISSOLVE	**OFF**, ON	Switches scene files seamlessly.
	SPEED	0.2 to 2.8 (0.2 steps), 3 to 10 (1 steps), **0.2**	
<REFERENCE> F03	STORE FILE	Execute using ENTER.	Stores the current settings of the reference file items in the reference file in internal memory.
	STANDARD	Execute using ENTER.	Reads the standard values in the reference file in internal memory.
	RESET REFERENCE FILE	Execute using ENTER.	Resumes the factory-preset reference file.
	FACTORY RESET	Execute using ENTER.	Resets all settings to the factory defaults.
	IMPORT FROM USB	Execute using ENTER.	Loads a reference file from a USB drive.
	EXPORT TO USB	Execute using ENTER.	Exports the current settings of the reference file items as a reference file to a USB drive.
	FILE ID	Max. 14 characters	Enters a comment in the reference file to be written to a USB drive. *See "To specify a character string" (page 37).*
	CAM CODE	Camera code	Display only
	DATE	Date	Display only

FILE			
Page name Page No.	**Item**	**Settings**	**Description**
<USER GAMMA> F04 Displayed only when HZC-UG50 is installed	IMPORT FROM USB	Execute using ENTER.	Imports a user gamma file from a USB drive.
	PRESET	Execute using ENTER.	Sets the user gamma file items to the preset values in internal memory.
	FILE ID	Max. 14 characters	Inserted in the user gamma file to be written to a USB drive. Enter a comment. *See "To specify a character string" (page 37).*
	CAM CODE	Camera code	Display only
	DATE	Date	Display only
<LENS FILE> F05	STORE FILE	Execute using ENTER.	The center marker is not included.
	No.	1 to 17, **1**	1 to 16: When using a non-serial lens (When using a large lens, this setting depends on the internal setting of the lens.) 17: When using a serial lens
	NAME		Changeable only when using a non-serial lens.
	LENGTH		
	F NO	F1.0 to F3.4, **F1.7**	Changeable only when using a non-serial lens.
	CENTER MARKER		Sets and stores the center marker position: H POS: Increasing the value moves the position to the right. V POS: Increasing the value moves the position downwards.
	H POS	–48 to +48, **0**	
	V POS	–27 to +27, **0**	
	STORE	Execute using ENTER.	
	IMPORT FROM USB	Execute using ENTER.	Loads a lens file from a USB drive.
	EXPORT TO USB	Execute using ENTER.	Exports a lens file to a USB drive.
<OHB FILE> F06	STORE FILE	Execute using ENTER.	Stores the offset values of CMOS-specific items (no repeated store operation is necessary even if the CCD is reattached)
	CLEAR OHB FILE	Execute using ENTER.	Deletes the OHB file.
<MATRIX FILE> F07	CUSTOM PRESET MATRIX		Stores and reads preset files: When storing a preset file in camera memory, specify the file number.
	STORE FILE	Execute using ENTER.	
	1		
	2		
	3		
	4		
	5		
	CLEAR ALL	Execute using ENTER.	Clears all the files.
	IMPORT FROM USB	Execute using ENTER.	Loads five preset files from a USB drive to internal memory.
	EXPORT TO USB	Execute using ENTER.	Exports five preset files in the camera's memory to a USB drive.
	FILE ID	Max. 14 characters	Enters a comment for the preset files to be written to a USB drive. *See "To specify a character string" (page 37).*
	CAM CODE	Camera code	Display only
	DATE	Date	Display only

FILE			
Page name Page No.	**Item**	**Settings**	**Description**
<BOX CURSOR FILE> F08	1:		BOX CURSOR FILE selection FILE name input. Align the cursor to the left of the number to select the BOX CURSOR FILE. Align the cursor to the right of the number to enter the BOX CURSOR FILE name. *See "To specify a character string" (page 37).*
	2:		
	3:		
	4:		
	5:		
	6:		
	7:		
	8:		
	9:		
	10:		
	STORE		Stores a BOX CURSOR FILE name in the camera.
	IMPORT FROM USB		Transfers BOX CURSOR FILE from a USB drive to the camera.
	EXPORT TO USB		Transfers BOX CURSOR FILE from the camera to a USB drive.
<HDR USER GAMMA FILE> F09	IMPORT FROM USB		
	GROUP No.		Insert a USB drive into the unit to display the HDR user gamma group files on the USB drive, then select the file you want to import.
	IMPORT		Imports the selected HDR user gamma group file.
	RESET HDR USER GAMMA		Resets HDR user gamma curves (1 to 5) to the defaults.
<SR LIVE METAFILE RECALL> Displayed when used in standalone operation.	FILE No	1 to 32	Files can be renamed.
	RECALL		
	STORE		
	CLEAR		
<SR LIVE METAFILE IMPORT> Displayed when used in standalone operation.	FILE No	1 to 32	
	EXPORT		
	IMPORT		
	DELETE		

DIAGNOSIS Menu

This menu is for viewing only; camera settings cannot be made using this menu.
However, some items set the conditions for viewing.

DIAGNOSIS Page name Page No.	Item	Indication	Description
<OPTICAL CONDITION> D01	LEVEL		
	CCU → CAM	GREEN, YELLOW, RED, NG, NO SIGNAL	Not displayed when HKC-TR37 is installed. **NO SIGNAL:** When CCU is not connected
	CAM → CCU	GREEN, YELLOW, RED, NG, NO SIGNAL	
	REFLECTION	OK, NG, --	Not displayed when HKC-TR37 is installed. **--:** When CCU is not connected
	CABLE LENGTH	x.x km	Displays the camera cable length. (Displayed only when a CCU is connected.) Not displayed when HKC-TR37 is installed.
<BOARD STATUS> D02	OHB	OK, NG	
	DPR	OK, NG	
	SY	OK, NG	
	PS	OK, NG	
	TX	OK, NG	Not displayed when HKC-TR37 is installed.
	CD	OK, NG	Displayed only when HKC-TR37 is installed.
	HOURS METER	xxxx H	Displays the total working time.
<ROM VERSION> D03 (U15)	CAMERA APP	Vx.xx	
	OS	Vx.xx	
	UPDATER	Vx.xx	
	HDLA	Vx.xx	Displayed only when HDLA-3505 is attached.
	HDLA LCD	Vx.xx	Displayed only when HDLA-3505 is attached.
	PANEL	Vx.xx	Displayed only when HDLA-3501 is attached.
	SY	Vx.xx	
	DPR	Vx.xx	
	PS	Vx.xx	
	TXH	Vx.xx	Displayed only on the HDC5500/5500V. Not displayed when HKC-TR37 is installed.
	TXM	Vx.xx	Displayed only on the HDC3500/3500V. Not displayed when HKC-TR37 is installed.
	FDU	Vx.xx	Displayed only when HKC-VND50 Variable ND Filter Unit is installed.
	CD1	OK, NG	Displayed only when HKC-TR37 is installed.
	CD2	OK, NG	
	TR	OK, NG	
<SERIAL NO.> D04	MODEL	xxxxxxx	Displays the model name.
	NO.	xxxxxxx	Displays the serial number.
	EFFECTIVE FUNCTION		Displayed if any option is installed.

DIAGNOSIS			
Page name **Page No.**	**Item**	**Indication**	**Description**
<POWER SUPPLY STATUS> D05 **Note** This display has a margin of error for the display of the electric supply state of a camera. Use only as a guide.	CABLE LENGTH	x.x km	Displays the cable length that a CCU measured. (Displayed only when a CCU is connected.) Not displayed when HKC-TR37 is installed.
	CABLE MARGIN	x.x m	Displays the possible cable length extension. (Displayed only when a CCU is connected.) Not displayed when HKC-TR37 is installed.
	CAM INPUT VOLTAGE	0% to 100%	Displays the ratio of the input voltage on the camera to the output voltage on the CCU.
	CAM CONSUMPTION	0% to 100%	Displays camera power consumption.
	HDLA CONSUMPTION	0% to 100%	Displays the power consumption of the large lens adaptor. Displayed only when HDLA-3501/3505 is attached.

Appendix

Precautions

Note on laser beams

Laser beams may damage the CMOS image sensor. If you shoot a scene that includes a laser beam, be careful not to let a laser beam become directed into the CMOS image sensor of the camera.

Do not subject to severe shocks

Damage to the case or internal components may result.

When finished using

Set the power switch to OFF.

Operation and storage environment

Store in a level place with air conditioning.
If the unit gets wet, make sure it is completely dry before storage.
Avoid use or storage in the following places:

- Extremely hot or cold places
- Places with high humidity
- Places with strong vibration
- Near strong magnetic fields
- In places where it receives much direct sunlight, or near heating equipment

Condensation

If the unit is suddenly taken from a cold to a warm location, or if ambient temperature suddenly rises, moisture may form on the outer surface of the unit and/or inside of the unit. This is known as condensation. If condensation occurs, turn off the unit and wait until the condensation clears before operating the unit. Operating the unit while condensation is present may damage the unit.

Components with limited service life

- The fan and battery are consumable parts that will need periodic replacement.
  When operating at room temperature, a normal replacement cycle will be about 5 years. However, this replacement cycle represents only a general guideline and does not imply that the life expectancy of this part is guaranteed. For details on parts replacement, contact your dealer.
- The life expectancy of the electrolytic capacitor is about 5 years under normal operating temperatures and normal usage (8 hours per day; 25 days per month).
  If usage exceeds the above normal usage frequency, the life expectancy may be reduced correspondingly.

Camera CMOS image sensor phenomena

Note

The following phenomena that may occur in images are specific to image sensors. They do not indicate a malfunction.

White flecks

Although the image sensors are produced with high-precision technologies, fine white flecks may be generated on the screen in rare cases, caused by cosmic rays, etc. This is related to the principle of image sensors and is not a malfunction.
The white flecks especially tend to be seen in the following cases:

- When operating at a high environmental temperature
- When you have raised the gain (sensitivity)

Flicker

If shooting under lighting produced by fluorescent lights, sodium lamps, mercury-vapor lamps, or LEDs, the screen may flicker or colors may vary.

To prevent electromagnetic interference from portable communications devices

The use of portable telephones and other communications devices near this camera can result in malfunctions and interference with audio and video signals.
It is recommended that the portable communications devices near this camera be powered off.

Do not place this product close to medical devices

This product (including accessories) has magnet(s) which may interfere with pacemakers, programmable shunt valves for hydrocephalus treatment, or other medical devices. Do not place this product close to persons who use such medical devices. Consult your doctor before using this product if you use any such medical device.

Connections to the Internet

This product is used with a leased line or intranet connection. Do not connect to an external network, as security issues may occur.

Care of the unit

If the body of the unit is dirty, clean it with a soft, dry cloth. In extreme cases, use a cloth moistened in a little neutral detergent, then wipe dry.
Do not use organic solvents such as alcohol or thinners, as these may cause discoloration or other damage to the finish of the unit.
Refrain from cleaning using pressurized air devices, such as an air duster or air blower, as these may cause dust to enter the optical parts and damage the interior of the unit.

Digital Triax Transmission (when HKC-TR37 is installed)

A powerful error-correction function is incorporated for the transmission between the camera and CCU. However, if an error occurs on long-distance transmission because of external noise or for some other reason, the compensation by interpolation that partially uses the previous picture may operate.

In digital triax transmission, the following video delay in transmission may occur.

- The video delay in transmission between the camera and the CCU is approximately 9 ms to 12 ms.

- A delay of about 1 frame occurs on the viewfinder display if a camera image is sent back from the CCU to the camera as a return signal.
- An appropriate delay is applied to the MIC 1 and MIC 2 audio signals from the CCU to match the video delay.
- A certain time is required for the video signal transmitted between the camera and the CCU to stabilize after power is applied. This is not a malfunction.

Triax transmission distances

The maximum and minimum transmission distances allowed for triax cable connection are shown in the table below. The distances may vary according to the conditions, such as the total power requirements (including the power supply to the camera from the CCU) and cable degradation.

Allowable transmission range when using triax cables with the following characteristics:

Attenuation: 3.8 dB to 68.4 dB at 100 MHz (including the connector loss)

Cable type (example)		Max. distance	Min. distance
Fujikura	ø8.5 mm	900 m	50 m
Fujikura	ø14.5 mm	1800 m	100 m
Belden 9232	ø13.2 mm	1300 m	75 m

Error Messages

If a problem occurs during operation, a warning message is displayed.

Note

To display a message, set the DISPLAY switch to DISPLAY or MENU.

Message	Meaning
TEMP WARNING	The internal temperature is abnormally high.
FAN STOP	The built-in fan is not rotating properly.
SET CORRECT SYSTEM DATE	The time/date of the internal clock have not been set.
OHB BLOCK NG!	A problem was detected in the optical block.
NO USB FLASH DRIVE	A USB drive operation was attempted with no USB drive connected.
USB FLASH DRIVE ERROR	An error occurred during access to a USB drive.
FORMAT ERROR!	A USB drive operation was attempted with an unformatted USB drive.
WRITE PROTECTED	File writing was attempted with a write-protected USB drive.
FILE ERROR	An error occurred while reading a file from a USB drive.
OTHER MODEL'S FILE	You attempted to read a file of other models having no compatibility.
FILE NOT FOUND	The file you attempted to read does not exist in the USB drive.
ZOOM/FOCUS CONTROL:RCP/MSU	Zoom and focus controlled from RCP/MSU. Zoom and focus demand for lens control is disabled.

Using a USB Drive

You can connect a USB drive to the USB connector to save and load the settings data file.

The following Sony USB drives are recommended.
(As of October 2021)

Series	Product
USM-QX series	USM8GQX, USM16GQX, USM32GQX, USM64GQX, USM128GQX
USM-T series (Japan only)	USM8GT, USM16GT, USM32GT, USM64GT, USM128GT
USM-U series	USM4GU, USM8GU, USM16GU, USM32GU, USM64GU, USM128GU
USM-X series (discontinued)	USM8X, USM16X, USM32X, USM64X
USM-W3 series (discontinued)	USM8W3, USM16W3, USM32W3, USM64W3, USM128W3
USM-R series	USM4GR, USM8GR, USM16GR, USM32GR, USM64GR
USM-W series	USM8W, USM16W, USM32W, USM64W
USM-M1 series	USM8M1, USM16M1, USM32M1, USM64M1
USM-SA3 series	USM16SA3, USM32SA3, USM64SA3
USM-SA2 series	USM16SA2, USM32SA2, USM64SA2
USM-SA1 series (discontinued)	USM8SA1, USM16SA1, USM32SA1, USM64SA1
USM-CA1 series (discontinued)	USM16CA1, USM32CA1, USM64CA1
USM-L series (discontinued)	USM1GL, USM2GL, USM4GL, USM8GL, USM16GL, USM32GL
USM-LX series (discontinued)	USM1GLX, USM2GLX, USM4GLX, USM8GLX, USM16GLX, USM32GLX, USM64GLX
USM-N series (discontinued)	USM4GN, USM8GN, USM16GN, USM32GN
USM-P series (discontinued)	USM4GP, USM8GP, USM16GP, USM32GP, USM64GP
USM-M series (discontinued)	USM4GM, USM8GM, USM16GM, USM32GM
USM-Q series (discontinued)	USM8GQ, USM16GQ, USM32GQ, USM64GQ
USM-S series (discontinued)	USM4GS, USM8GS, USM16GS
USM-V series (discontinued)	USM4GV, USM8GV

Notes

- USB drives other than those recommended may not be recognized when connected to the USB connector.
- USB drives must be formatted with the FAT16 or FAT32 file system. The recommended drives are preformatted, and can be used without any prior setup.

Specifications

HDC5500/5500V

General	
Power requirements	AC 240 V, 1.4 A (max.) 12 V DC, 9.5 A (max.) 240 V DC, 1.05 A (max.)
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Mass	HDC5500 Approx. 5.0 kg (11 lb 0.4 oz) HDC5500V Approx. 5.1 kg (11 lb 3.9 oz)
Dimensions	See *page 129*.
Imaging element	
Imaging element	2/3 inch CMOS sensor with global shutter
Form	3-chip, RGB
Electrical characteristics	
Sensitivity	F10.0 (at 2000 lx with 89.9% reflectance)
Noise level	–62 dB
Horizontal resolution	2000 TVL (at center of screen) 5% or higher modulation
Geometric distortion	Negligible (not including lens distortion)
Optical system specifications	
Optical system	F1.4 prism

Built-in filters

- ND filter

HDC5500	HDC5500V
1: CLEAR	1: CLEAR
2: 1/4ND	2 to 5: VARIABLE ND (1/3 to 1/256)
3: 1/8ND	
4: 1/16ND	
5: 1/64ND	

- CC filter

HDC5500	HDC5500V Serial numbers: 10001 to 10999 30001 to 30999	HDC5500V Serial numbers: Other than those on the left
A: CROSS	A: CROSS	A: CROSS
B: 3200K (clear)	B: 3200K (clear)	B: CLEAR
C: 4300K	C: 4300K	C: BLACK MIST
D: 6300K	D: 6300K	D: EXTRA OLPF
	E: EXTRA OLPF	

Input/output connectors	
CCU	Optoelectric composite connector (1)
LENS	12-pin (1)
VF	20-pin (1)
MIC 1 IN	XLR 3-pin, female (1)
AUDIO IN CH1, CH2	XLR 3-pin, female (1 each) When AUDIO switch is set to MIC: –60 dBu (can be selected up to –20 dBu by menu operation), balanced When AUDIO switch is set to LINE: 0 dBu, balanced
INTERCOM 1, INTERCOM 2	XLR 5-pin, female (1 each)
EARPHONE	4-pole mini jack (1) (2-polo mono, 3-pole stereo, 4-pole CTIA standard, 4-pole OMTP standard)
DC IN	XLR 4-pin (1), DC 10.5 V to 17 V
DC OUT	4-pin (1), 10.5 V to 17 V DC, max. 0.5 A (This may be limited by the imposed load or inputs.) 2-pin (1), 10.5 V to 17 V DC, max. 2.5 A (This may be limited by the imposed load or inputs.)
SDI 1, SDI 2, SDI 3	BNC type (1 each)
SDI MONI	BNC type (1)
TEST OUT	BNC type (1)
PROMPTER/GENLOCK	BNC type (1) PROMPTER 1 Vp-p, 75 ohms GENLOCK HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 ohms SD: Black burst (NTSC: 0.286 Vp-p, 75 ohms, PAL: 0.3 Vp-p, 75 ohms)
RET CTRL	6-pin (1)
REMOTE	8-pin (1)
TRACKER	12-pin (1)
CRANE	12-pin (1) HD/UHD TRUNK(1.5G) IN
USB	USB 2.0 Type-A 4-pin (1) (for connecting USB drive)
NETWORK TRUNK	RJ-45 type 8-pin (1)
Supplied accessories	
Before Using This Unit (1)	
Operating Instructions (CD-ROM) (1)	
Cable clamp belt (1 set)	
Screws (+B3×8) (2)	
Attached label (1)	
Viewfinder slide unit (HDC5500V)	
Handle clamp (HDC5500V)	

Optional Accessories/Related Equipment

Optional accessories	
Triax Transmission Adaptor	HKC-TR37
Side Panel Attachment Kit	HKC-CN50
UHB Fiber Transmission Adaptor	HKC-FB50
Fiber Transmission Adaptor	HKC-FB30

Camera Operating Software	HZC-DFR50/DFR50M/DFR50W HZC-QFR50/QFR50M/QFR50W HZC-HFR50/HFR50M/HFR50W/HFR50P HZC-PRV50/PRV50M/PRV50W HZC-PSF50/PSF50M/PSF50W HZC-UHD50/UHD50M/UHD50W/UHD50P HZC-UG50/UG50M/UG50W
Wireless Transmission Adaptor	HKC-WL50
Variable ND Filter Unit	HKC-VND50
HD Electronic Viewfinder	HDVF-EL20 (0.7-inch, color) HDVF-EL30 (0.7-inch, color) HDVF-EL75 (7.4-inch, color) HDVF-L750 (7-inch, color) HDVF-EL740/760 (7.4-inch, color)
Large Lens Adaptor	HDLA-3501/3505
Microphone Holder	CAC-12
Return Video Selector	CAC-6
Tripod Attachment	VCT-14
Low-repulsion Shoulder Pad	A-8286-346-A
Related equipment	
HDCU5000/5500 Camera Control Unit	
MSU-3000/1000 series Master Setup Unit	
RCP-3000/1000 series Remote Control Panel	
CNA-1 Camera Control Network Adaptor	

HDC3500/3500V

General	
Power requirements	AC 240 V, 1.4 A (max.) 12 V DC, 9.5 A (max.) 240 V DC, 1.05 A (max.)
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Mass	HDC3500 Approx. 4.9 kg (10 lb 13 oz) HDC3500V Approx. 5.0 kg (11 lb 0.4 oz) When HKC-TR37 is installed HDC3500 Approx. 5.1 kg (11 lb 3.9 oz) HDC3500V Approx. 5.2 kg (11 lb 7.4 oz) When HKC-FB30 is installed HDC3500 Approx. 4.9 kg (10 lb 13 oz) HDC3500V Approx. 5.0 kg (11 lb 0.4 oz) When HKC-FB50 is installed HDC3500 Approx. 5.0 kg (11 lb 0.4 oz) HDC3500V Approx. 5.1 kg (11 lb 3.9 oz)
Dimensions	See *page 129*.
Imaging element	
Imaging element	2/3 inch CMOS sensor with global shutter
Form	3-chip, RGB

Electrical characteristics	
Sensitivity	F10.0 (at 2000 lx with 89.9% reflectance) (progressive output option installed)
Noise level	–62 dB
Horizontal resolution	2000 TVL (at center of screen, 4K output option installed) 5% or higher modulation
Geometric distortion	Negligible (not including lens distortion)
Optical system specifications	
Optical system	F1.4 prism

Built-in filters

- ND filter

HDC3500	HDC3500V
1: CLEAR	1: CLEAR
2: 1/4ND	2 to 5: VARIABLE ND (1/3 to 1/256)
3: 1/8ND	
4: 1/16ND	
5: 1/64ND	

- CC filter

HDC3500	HDC3500V Serial numbers: 10001 to 10999 30001 to 30999	HDC3500V Serial numbers: Other than those on the left
A: CROSS	A: CROSS	A: CROSS
B: 3200K (clear)	B: 3200K (clear)	B: CLEAR
C: 4300K	C: 4300K	C: BLACK MIST
D: 6300K	D: 6300K	D: EXTRA OLPF
	E: EXTRA OLPF	

Input/output connectors	
CCU	Optoelectric composite connector (1)
LENS	12-pin (1)
VF	20-pin (1)
MIC 1 IN	XLR 3-pin, female (1)
AUDIO IN CH1, CH2	XLR 3-pin, female (1 each) When AUDIO switch is set to MIC: –60 dBu (can be selected up to –20 dBu by menu operation), balanced When AUDIO switch is set to LINE: 0 dBu, balanced
INTERCOM 1, INTERCOM 2	XLR 5-pin, female (1 each)
EARPHONE	4-pole mini jack (1) (2-polo mono, 3-pole stereo, 4-pole CTIA standard, 4-pole OMTP standard)
DC IN	XLR 4-pin (1), 10.5 to 17 V DC
DC OUT	4-pin (1), 10.5 V to 17 V DC, max. 0.5 A (This may be limited by the imposed load or inputs.)
	2-pin (1), 10.5 V to 17 V DC, max. 2.5 A (This may be limited by the imposed load or inputs.)
SDI 1, SDI 2	BNC type (1 each)
SDI MONI	BNC type (1)

TEST OUT	BNC type (1)
PROMPTER/GENLOCK	BNC type (1)
	PROMPTER 1 Vp-p, 75 ohms
	GENLOCK HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 ohms SD: Black burst (NTSC: 0.286 Vp-p, 75 ohms, PAL: 0.3 Vp-p, 75 ohms)
PROMPTER2	BNC type (1), 1 Vp-p, 75 ohms
RET CTRL	6-pin (1)
REMOTE	8-pin (1)
TRACKER	12-pin (1)
CRANE	12-pin (1)
USB	USB 2.0 Type-A 4-pin (1) (for connecting USB drive)
NETWORK TRUNK	RJ-45 type 8-pin (1)
Supplied accessories	
Before Using This Unit (1)	
Operating Instructions (CD-ROM) (1)	
Cable clamp belt (1 set)	
Screws (+B3×8) (2)	
Attached label (1)	
Viewfinder slide unit (HDC3500V)	
Handle clamp (HDC3500V)	

Optional Accessories/Related Equipment

Optional accessories	
Triax Transmission Adaptor	HKC-TR37
Side Panel Attachment Kit	HKC-CN50
UHB Fiber Transmission Adaptor	HKC-FB50
Fiber Transmission Adaptor	HKC-FB30
Camera Operating Software	HZC-DFR50/DFR50M/DFR50W HZC-QFR50/QFR50M/QFR50W HZC-HFR50/HFR50M/HFR50W/HFR50P HZC-PRV50/PRV50M/PRV50W HZC-PSF50/PSF50M/PSF50W HZC-UHD50/UHD50M/UHD50W/UHD50P HZC-UG50/UG50M/UG50W
Wireless Transmission Adaptor	HKC-WL50
Variable ND Filter Unit	HKC-VND50
HD Electronic Viewfinder	HDVF-EL20 (0.7-inch, color) HDVF-EL30 (0.7-inch, color) HDVF-EL75 (7.4-inch, color) HDVF-L750 (7-inch, color) HDVF-EL740/760 (7.4-inch, color)
Large Lens Adaptor	HDLA-3501/3505
Microphone Holder	CAC-12
Return Video Selector	CAC-6
Tripod Attachment	VCT-14
Low-repulsion Shoulder Pad	A-8286-346-A
Related Equipment	
HDCU3100/3170/3500/5000 Camera Control Unit	
HDCU2000-series HD Camera Control Unit	
MSU-3000/1000 series Master Setup Unit	
RCP-3000/1000 series Remote Control Panel	
CNA-1 Camera Control Network Adaptor	

HKC-FB50

General	
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (width / height / depth)	56 × 181 × 338 mm ($2\ ^1/_4 \times 7\ ^1/_4 \times 13\ ^3/_8$ in.)
Mass	Approx. 0.8 kg (1 lb 12 oz)
Input/output connectors	
CCU	Optoelectric composite connector (1)
SDI1, SDI2, SDI3	BNC type (1 each)
DC OUT	2-pin (1)
NETWORK TRUNK	RJ-45 type 8-pin (1)
Supplied accessories	
Attached label (1)	
Operating Instructions (1)	

HKC-FB30

General	
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (width / height / depth)	56 × 181 × 338 mm ($2\ ^1/_4 \times 7\ ^1/_4 \times 13\ ^3/_8$ in.)
Mass	Approx. 0.7 kg (1 lb 8.7 oz)
Input/output connectors	
CCU	Optoelectric composite connector (1)
SDI1, SDI2	BNC type (1 each)
PROMPTER2	BNC type (1), 1 Vp-p, 75 ohms
DC OUT	2-pin (1)
NETWORK TRUNK	RJ-45 type 8-pin (1)
Supplied accessories	
Attached label (1)	
Operating Instructions (1)	

HKC-TR37

General	
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (width / height / depth)	58 × 181 × 338 mm ($2\ ^3/_8 \times 7\ ^1/_4 \times 13\ ^3/_8$ in.)
Mass	Approx. 1.0 kg (2 lb 3.3 oz)

Input/output connectors	
CCU	Triax connector (1)
SDI	BNC type (1)
DC OUT	2-pin (1)
Supplied accessories	
Attached label (1)	
Operating Instructions (1)	

HKC-CN50

General	
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (width / height / depth)	150 × 50 × 20 mm ($6 \times 2 \times {}^{13}/_{16}$ in.)
Mass	Approx. 0.06 kg (2.1 oz)
Supplied accessories	
Harness (1)	
Stepped screws (3)	
Screws (PSW 3×6) (2)	
Operating Instructions (1)	
Cushion (2)	

HKC-WL50

General	
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (width / height / depth)	Side panel: 340 × 176 × 54 mm ($13\ {}^{1}/_{2} \times 7 \times 2\ {}^{1}/_{4}$ in.) Battery adaptor: 96 × 212 × 111 mm ($3\ {}^{7}/_{8} \times 8\ {}^{3}/_{8} \times 4\ {}^{3}/_{8}$ in.)
Mass	Side panel: Approx. 1 kg (2 lb 3.3 oz) Battery adaptor: Approx. 0.6 kg (1 lb 5.2 oz)
Input/output connectors	
SDI 1A (MCX type)	
SDI 1B (MCX type)	
SDI 1C (MCX type)	
SDI 1D (MCX type)	
SDI 2 (MCX type)	
POWER CONNECTOR HD15 (D-Sub 15-pin)	
Supplied accessories	
Harness (1)	
Attachment fittings (1 set)	
Nut (1)	
Operating Instructions (1)	
Rating label (1)	
Antenna cushion (1)	

HKC-VND50

General	
Operating temperature	–20 °C to +45 °C (–4 °F to +113 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (width / height / depth)	91.6 × 87.4 × 57.3 mm ($3\ {}^{5}/_{8} \times 3\ {}^{1}/_{2} \times 2\ {}^{3}/_{8}$ in.)
Mass	Approx. 0.16 kg (5.6 oz)
Supplied accessories	
Washers (ø2.5) (4)	
Screws (+K2×3) (3)	
Screws (+B3×10) (4)	
Inside inner panel (1)	
Blind sheet A (1)	
Blind sheet B (1)	
Drip-proof cushion (1)	
VARIABLE ND label (1)	
Optical low-pass filter (1)	
Operating Instructions (1)	

Design and specifications are subject to change without notice.

Notes

- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
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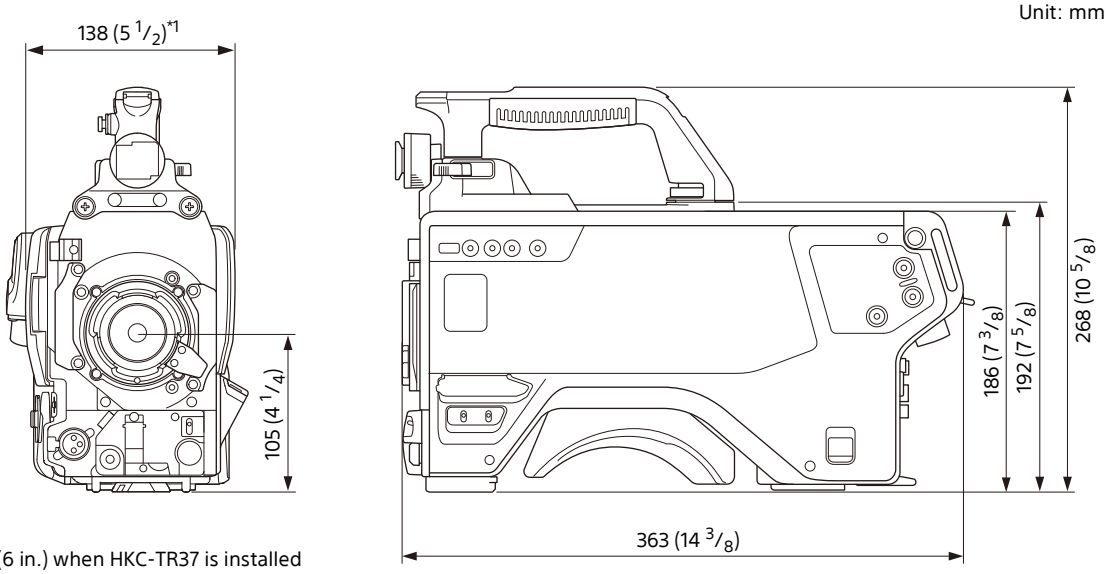
Dimensions

Unit: mm (inches)



*1: 152 mm (6 in.) when HKC-TR37 is installed

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