SONY

Camera Control Unit

Operating Instructions

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

HDCU5000 HDCU5500 HDCU3500

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Overview

The HDCU5000/5500 Camera Control Unit connects to an HDC5000/5500 Color Camera, via an optical fiber cable, and carries out signal processing, provides an interface with external equipment, and supplies power to the camera. The HDCU3500 Color Camera Control Unit connects to an HDC3500 Color Camera, HDC3100 Fiber Color Camera, or HDC2000-series¹⁾ HD Color Camera, via an optical fiber cable, and carries out signal processing, provides an interface with external equipment, and supplies power to the camera.

The unit is equipped as standard with a function for downconverting 4K signals (HDCU5000/5500 only) or HD signals²) to SD signals³) and a function for up-converting the image from another camera as the return video, which give the unit the flexibility to operate in 4K, HD, and SD camera systems.

The unit may be combined with an RCP-3000/1000 series Remote Control Panel (optional) to form a camera control system. In addition, by combining the unit with an MSU-1000/ 1500 Master Setup Unit (optional), you can form a system capable of controlling multiple cameras.

The unit can be mounted in a standard 19-inch EIA rack. The height is 3 units (use the RMM-301 Rack Mount Adaptor (option) for the HDCU5500/3500).

- 1) HDC2000 series: HDC2000/2580/2500/2400/1700
- 2) HD (high-definition) signals: Generic name for 1125-/750-line HDTV signals.
- SD (standard-definition) signals: Generic name for NTSC/PAL signals, 525/625 component signals, and 525/625 composite signals.
- * Some models may not be available, depending on the country or region.

Note

Before operating the system, check that the software and ROM versions of this unit and system configuration devices are compatible versions.

You can expand the functionality by installing the following option products.

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

HKCU-FB50 UHB Transmission Board Kit (HDCU3500)

Upgrades the unit to the equivalent of the HDCU5500.

HKCU-SDI50 12G-SDI Extension Kit (HDCU5000)

Enables 12G-SDI output at 4K using a single system of four outputs.

HKCU-SFP50 ST 2110 Interface Kit (HDCU5000/ 5500/3500)

Enables operation in an IP transmission system.

HKCU-SM50 Single Mode Fiber Connector Kit (HDCU5000/5500/3500)

Enables connection with Sony cameras that support optical fiber transmission over a single-mode fiber cable. It can connect to HDC3500/3100 and HDC2000 series cameras.

* The HDCE-100 Camera Extension Adaptor (option) is required for single-mode fiber connection.

HZCU-CNFG50 Config Control Software (HDCU5000/5500/3500)

Enables configuration of the unit via the LAN-COM connector of the CCU using the EMBER+ protocol.

HZCU-SNMP50 SNMP Agent Software (HDCU5000/ 5500/3500)

Enables remote monitoring via the LAN-COM connector of the CCU using the SNMP protocol.

HZCU-UHD35 4K/HDR Processor Software (HDCU5000/5500/3500)

Enables conversion of HD signals transmitted from a camera to 4K signals.

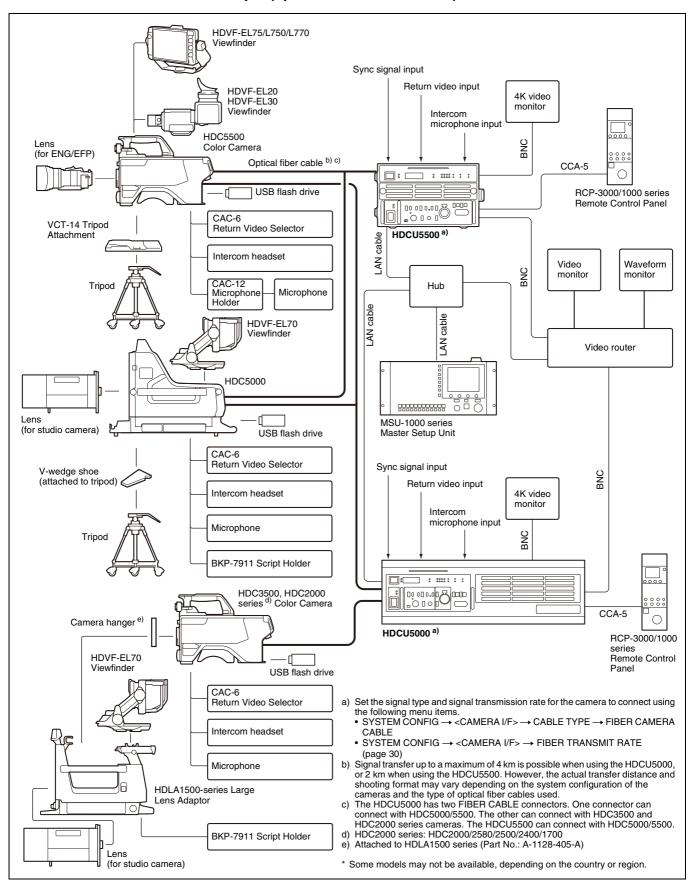
* Supported on the HDCU5000/5500 when the HKCU-SM50 is installed.

System Configuration

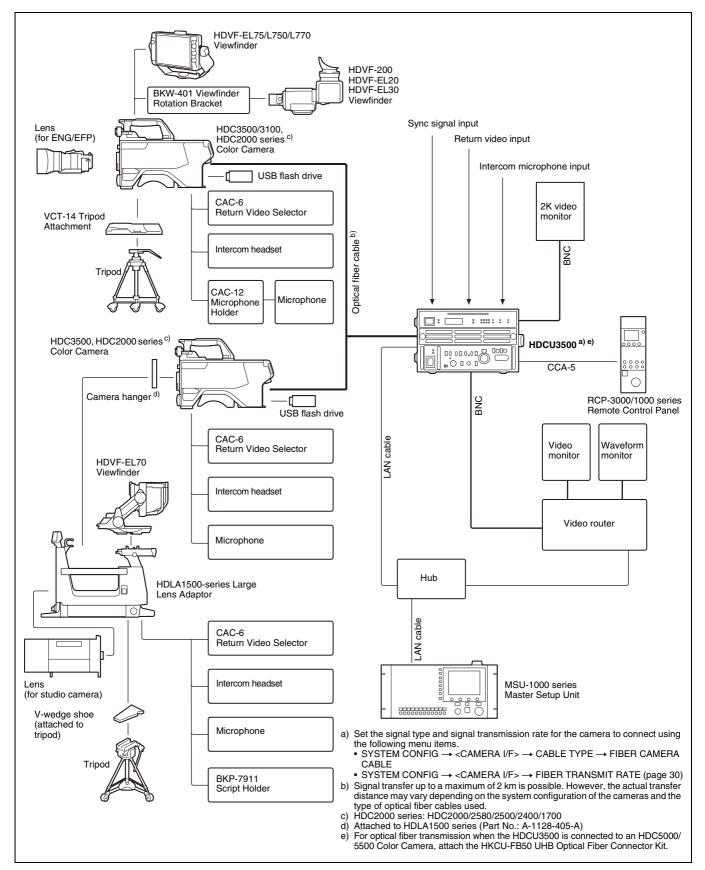
Note

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 representative or dealer.

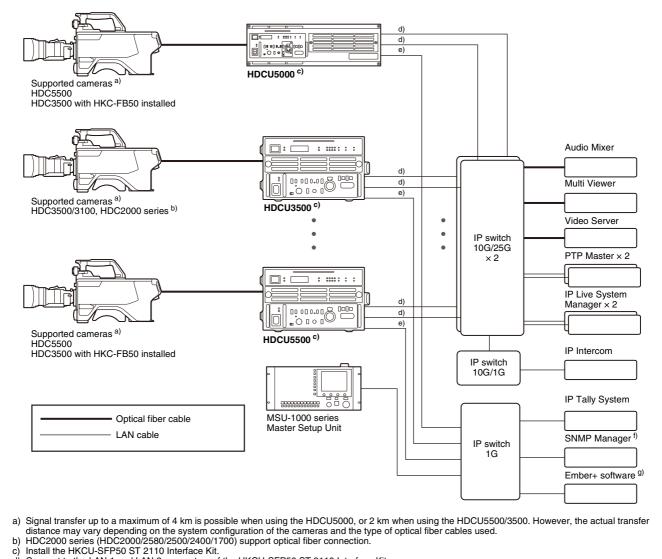
HDCU5000/5500 connection example (optical fiber transmission)



HDCU3500 connection example (optical fiber transmission)

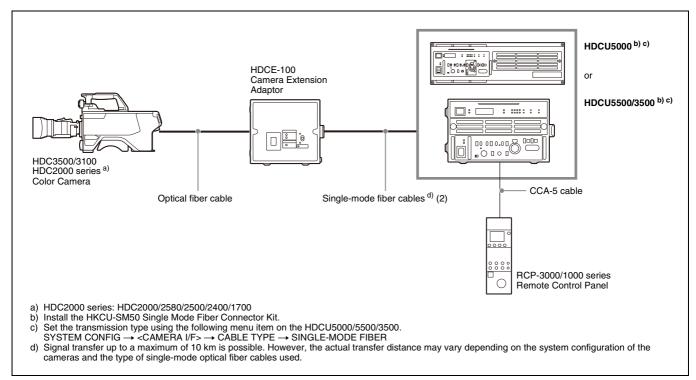


Connection example (IP connection)

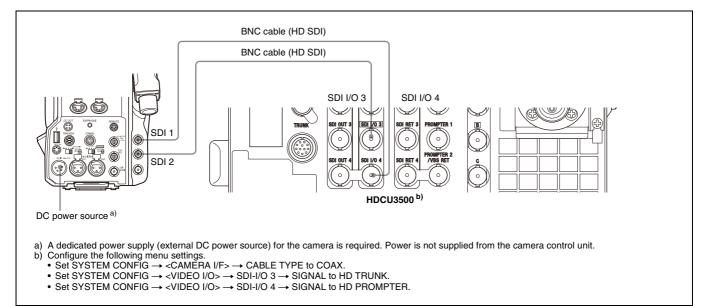


- c) d) d) Connect to the LAN 1 and LAN 2 connectors of the HKCU-SFP50 ST 2110 Interface Kit.
 e) Connect to the LAN COM connector of the HDCU5000/5500/3500.
 f) To support SNMP monitoring, install HZCU-SNMP50 SNMP Agent Software (option).
 g) To support Ember+ control, install HZCU-CNFG50 Config Control Software (option).

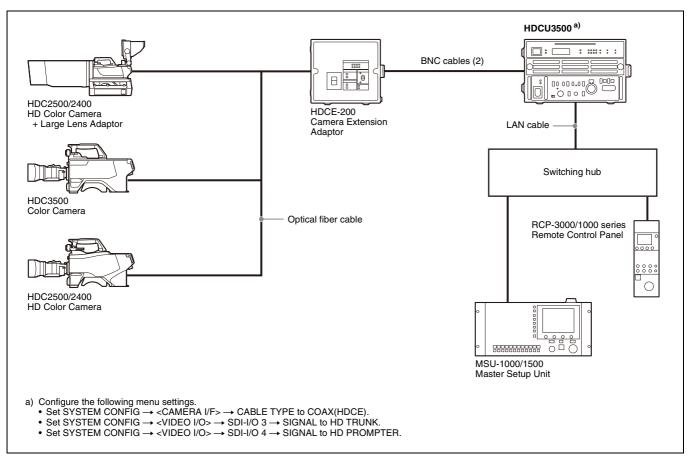
Connection example (single-mode fiber connection)



Connection example (coax connection)

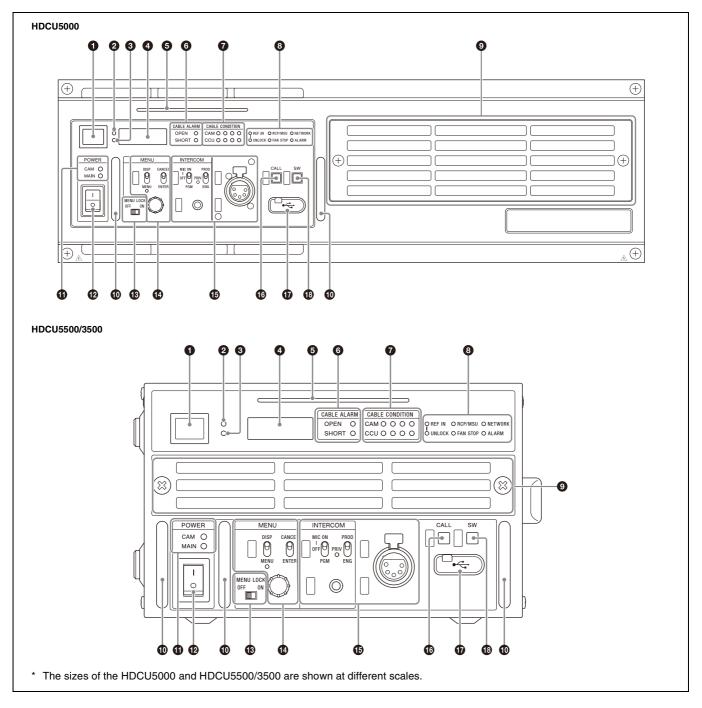


Connection example (coax (HDCE) connection)



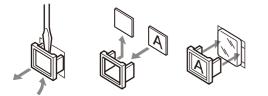
Location and Function of Parts

Front Panel



Red tally indicator

Lights in red when this unit receives a red tally signal. You can attach the supplied number plate here.



2 Yellow tally indicator

Lights in yellow when this unit receives a yellow tally signal.

③ Green tally indicator

Lights in green when this unit receives a green tally signal.

CCU number display

Displays the camera number set in the CCU menu. When the camera number is 0, the IP address and subnet mask of the LAN COM connector are displayed scrolling at regular intervals. When the camera number is not 0, the IP address and subnet mask of the LAN COM connector are displayed scrolling for a fixed time only when the DISP/MENU lever is held up in the DISP position for 3 seconds.

SIGNAL BAR indicator

Indicates the output status of the video signal.

During gray signal output: Off

- **During color bar output:** Lights in the color specified with the MAINTENANCE \rightarrow <FRONT PANEL> \rightarrow SIGNAL BAR \rightarrow READY COLOR menu item.
- During camera video output: Lights in a white flowing pattern.

G CABLE ALARM indicators

- **OPEN:** Lights up when a camera is not connected to the CAMERA FIBER connector on the rear panel of this unit via an optical fiber cable. Power is not supplied to the camera while this indicator is lit.
- **SHORT:** Lights up when an overcurrent flows the through the optical fiber cable. Power is not supplied to the camera while this indicator is lit.

CABLE CONDITION (signal reception status) indicators

Indicates the communication status of the camera (CAM) and camera control unit (CCU).

- When the two indicators on the right (green) are lit: Reception status is excellent.
- When the second indicator from the right (green) is lit: Reception status is good.
- When the second indicator from the left (yellow) is lit: Reception status is low.
- When the indicator on the left (red) is lit: Reception status is at the lowest level.

Status display indicator

- **REF IN (green):** Indicates presence of REFERENCE input signal.
- UNLOCK (red): Not locked to the REFERENCE input signal.
- **RCP/MSU:** Displays the status when there is a remote control panel connected.
- On: Indicates that external control equipment (MSU-1000/ 1500 Master Setup Unit, RCP-3000/1000 series Remote Control Panel, or other equipment) is connected.
- Off: Indicates that external control equipment is not connected.

For details, see "NETWORK Menu" (page 75).

NETWORK: Displays the network genlock status when using the HKCU-SFP50 ST 2110 Interface Kit. Low-speed flashing: PTP master not detected

High-speed flashing: Locking to PTP master Lit: Locked to PTP master

Not lit: Network genlock setting disabled

ALARM: Lights when various errors occur.

FAN STOP: Lights when the fan is stopped.

9 Filter cover

Remove the screws on the left/right of the filter cover to remove the filter cover.

The filter (black sponge) is placed under the cover. If the filter becomes dirty, you can remove it and clean it with cold or warm water. When using a detergent, use a neutral solution.

Be sure to dry the filter thoroughly before replacing it on the unit.

Guard bar

Note

Do not pull the guard bar with excessive force.

POWER indicators

CAM: Lights when power is being supplied to the camera. **MAIN:** Lights when the unit is turned on. In addition, this flashes when a fan error occurs.

POWER switch

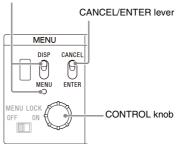
Turns the entire camera system on and off, including the unit, the camera, and the RCP-3000/1000 series Remote Control Panel connected to the REMOTE connector of this unit. Switch to "I" to turn the power on, and switch to " \bigcirc " to turn the power off.

Menu lock switch

Locks out operation of the front panel menu operation area.

MENU control block

DISP/MENU lever and indicator



• DISP/MENU lever and indicator

Selects the status display or setup menu display. In setup menu mode, the indicator turns on.

When the camera number is not 0, the IP address and subnet mask of the LAN COM connector are displayed on the CCU number display scrolling for a fixed time only when the DISP/ MENU lever is held up in the DISP position for 3 seconds. When <OUTPUT FORMAT1> \rightarrow SDI-OUT4 \rightarrow MONITOR is set to C, you can return to the M setting for MONITOR by holding the DISP/MENU level down in the MENU position for 3 seconds.

CANCEL/ENTER lever

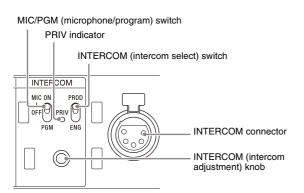
In setup menu mode, used to cancel and enter settings.

• CONTROL knob (rotary encoder)

In status screen mode, used to change the displayed page. In setup menu mode, used to move the cursor on a page and to change menu settings.

Pushing the knob has the same function as setting the CANCEL/ENTER lever to ENTER.

INTERCOM audio input/output and control block



• INTERCOM (intercom adjustment) knob

Adjusts the headset audio level.

• MIC/PGM (microphone/program) switch

ON: Turns the headset microphone on. **OFF:** Turns the headset microphone off. **PGM:** Selects program audio output.

• INTERCOM (intercom select) switch

Selects the intercom signal input/output connection source for the INTERCOM connector on the front panel. **PROD:** Connects the producer line.

HDCU5000 Rear Panel

PRIV: Blocks the connection to the producer line or engineer line, allowing private intercom talk between the CCU and the camera.

ENG: Connects the engineer line.

• PRIV (private) indicator

Lights when the intercom is in private mode.

• INTERCOM connector (XLR 5-pin)

Connect the intercom headset.

Call button

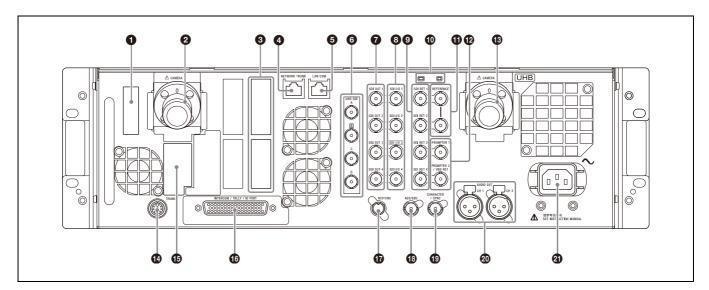
When pressed, this outputs a call signal to the camera or external control devices (the RCP-3000/1000 series Remote Control Panel, etc.) that are connected to this unit. Use this when you want to call and speak with the camera operator or external control device operator via intercom. This button lights in red when it is pressed or the call button of other equipment is pressed.

USB port

Used to connect to a USB device.

Assignable button

You can set a function for this button via the CCU menu.



Option kit mounting port

The HKCU-SFP50 ST 2110 Interface Kit (option) can be installed.

For an overview of option kits, see "Option Kits" (page 15).

CAMERA FIBER connector for HDC3500/3100 and HDC2000 series

Used to connect a video camera, using an optical fiber cable. All video camera signals, including power supply, control, video, and audio, are sent and received over one optical fiber cable.

Note

Dust on the connection surface of the optical fiber cable may result in transmission errors. When not connected, always cover the end of the connector with the supplied cap.

Option kit mounting port

Used to install HKCU-SDI50 12G-SDI Extension Kit. For an overview of option kits, see "Option Kits" (page 15).

NETWORK TRUNK connector (RJ-45 8-pin)

Used to connect the device connected to the NETWORK TRUNK connector of a camera with the network connection device.

G LAN COM connector (RJ-45 8-pin)

Used to connect to a LAN. Connect a LAN hub (10BASE-T/ 100BASE-TX/1000BASE-T), using a LAN cable (shielded type of category 5 or higher).

G UHD SDI A/B/C/D connectors (BNC-type)

The signal from the video camera is output as UHD (4K) SDI signals. The C and D connectors can also be used as input connectors.

For details on settings, contact a Sony service or sales representative.

SDI OUT (3G/HD/SD SDI output) 1/2/3/4 connectors (BNC-type)

The signal from the video camera may be output as 3G signals, HD-SDI signals, or SD-SDI signals. They can output signals with superimposed text characters and markers.

For details on settings, contact a Sony service or sales representative.

SDI I/O (3G/HD SDI input/output) 1/2/3/4 connectors (BNC-type)

These can be used as return video inputs, HD prompter inputs, camera video signal outputs, and HD-TRUNK outputs. Set them in NETWORK TRUNK on the <TRUNK/ PROMPTER> page of the MAINTENANCE menu according to the application.

SDI RET (3G/HD/SD SDI return video input) 1/2/3/4 connectors (BNC-type)

Four different 3G/HD/SD SDI return video input signals may be received independently. The selection of RET 1 to 4 is made by the return switch of the video camera. The aspect ratio can also be selected for an SD signal.

The type of input signal on RET 1 to 4 may be set individually using the setup menu, or using the MSU-1500 series Master Setup Unit.

For details on the setup menu, contact a Sony service or sales representative.

Refer also to the Master Setup Unit manual.

Rear indicator

Displays calls and statuses.

REFERENCE IN/OUT connectors (BNC-type)

Input an HD tri-level sync signal or SD reference signal (black burst signal, or black burst signal with 10-field ID) to the REFERENCE IN connector.

The input signal is output from the REFERENCE OUT connector as-is (loop-through). If loop-through output is not used, terminate the unused connector at 75 ohms.

INPUT area

① PROMPTER (tele-prompter input) 1/2 connectors (BNC-type)

Input the prompter signal of 1 channel or 2 channels depending on the setting of PROMPTER2/VBS-RET on the <REAR I/F> page of the SYSTEM CONFIG menu and PROMPTER CHANNEL MODE on the <TRUNK/ PROMPTER> page of the MAINTENANCE menu. When PROMPTER/VBS-RET is set to DISABLE, the input signal is output from the other connector as-is (loop-through). If loopthrough output is not used, terminate the unused connector at 75 ohms. When PROMPTER/VBS-RET is set to ENABLE, both connectors become inputs and they are terminated at 75 ohms inside the unit. If the signal used is a 1.0 Vp-p, 75-ohm analog signal, it may be output from the PROMPTER OUT connector of the video camera with a frequency bandwidth of 5 MHz, regardless of signal format.

Note

In the case of the HDC5500, connect to the PROMPTER1 connector. It is not supported by the PROMPTER2 connector.

② VBS-RET (VBS return video input) connector* (BNC-type)

A single VBS return video signal can be input independently.

* This connector doubles as the PROMPTER 2 connector.

The RET selection is made by the return switch of the video camera. The type of input signal on each RET connector may be set individually using the setup menu, or using the MSU-1000 series Master Setup Unit. The aspect ratio may also be selected for SD signals.

For details on setup menu operations, contact a Sony service or sales representative.

Refer also to the Master Setup Unit manual.

For details on how to select the signal, contact a Sony service or sales representative.

CAMERA FIBER connector for HDC5000/5500

Used to connect a video camera, using an optical fiber cable. All video camera signals, including power supply, control, video, and audio, are sent and received over one optical fiber cable.

Note

Dust on the connection surface of the optical fiber cable may result in transmission errors. When not connected, always cover the end of the connector with the supplied cap.

TRUNK connector (round 12-pin)

Used to connect to the CCU connector on a camera via an RS-232C or RS-422A interface. Communication with up to two channels is available.

Option kit mounting port

The optional HKCU-SM50 Single Mode Fiber Connector Kit can be installed.

For an overview of option kits, see "Option Kits" (page 15).

INTERCOM/TALLY/IO (intercom / tally / input/output) connector (D-sub 50-pin)

Used to input and output intercom, tally, and program audio signals. Connect to the intercom/tally/program audio connector of the intercom system.

REAR PREVIEW function: Pin 35 is assigned for the output pin of the REAR PREVIEW function.

RCP/CNU connector (round 8-pin)

Used to connect to an MSU-1000 series Master Setup Unit, CNU-700 Camera Command Network Unit, or RCP-3000/ 1000 series Remote Control Panel via a CCA-5 connection cable. Control signals are sent and received via this connector. When using an RCP-3000/1000 series unit, power is also supplied.

AES/EBU connector (BNC-type)

Outputs the AES/EBU format digital audio signal that is input to the video camera.

CHARACTER (character output) / SYNC connector (BNC-type)

- **CHARACTER:** Outputs the self-diagnostic results or setup menu of the unit as an SD analog video signal.
- **SYNC:** Outputs an SD composite sync (without burst signal) or HD tri-level sync signal from the internal sync signal generator (default: SD composite sync signal).

For details on how to select the signal, contact a Sony service or sales representative.

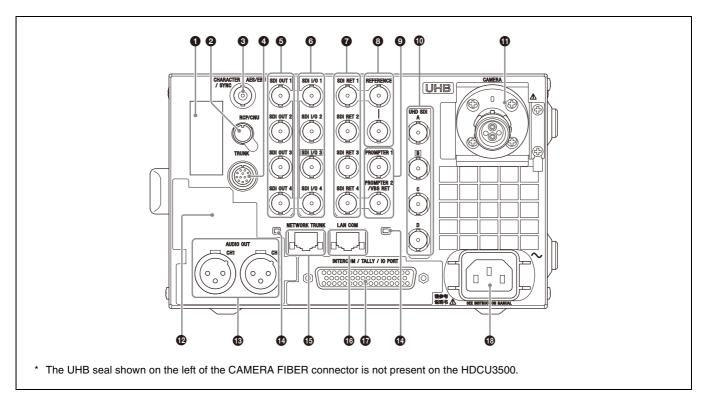
HDCU5500/3500 Rear Panel

AUDIO OUT CH1, CH2 (audio output 1, 2) connectors (XLR 3-pin)

Used to output the audio signal to the AUDIO IN connectors of the video camera.

${f O}\sim { m AC}$ IN (AC power input) connector

Use the specified AC power cord to connect to an AC power supply. The AC power cord can be secured to this unit using the plug holder (optional).



Option kit mounting port

The HKCU-SFP50 ST 2110 Interface Kit (option) can be installed.

For an overview of option kits, see "Option Kits" (page 15).

2 RCP/CNU connector (round 8-pin)

Used to connect to an MSU-1000 series Master Setup Unit, CNU-700 Camera Command Network Unit, or RCP-3000/ 1000 series Remote Control Panel via a CCA-5 connection cable. Control signals are sent and received via this connector. When using an RCP-3000/1000 series unit, power is also supplied.

CHARACTER (character output), AES/EBU, SYNC connector (BNC-type)

CHARACTER: Outputs the self-diagnostic results or setup menu of the unit as an SD analog video signal.

AES/EBU: Outputs the AES/EBU format digital audio signal that is input to the video camera.

SYNC: Outputs an SD composite sync (without burst signal) or HD tri-level sync signal from the internal sync signal generator (default: SD composite sync signal).

For details on how to select the signal, contact a Sony service or sales representative.

TRUNK connector (round 12-pin)

Used to connect to the CCU connector on a camera via an RS-232C or RS-422A interface. Communication with up to two channels is available.

SDI OUT (3G/HD/SD SDI output) 1/2/3/4 connectors (BNC-type)

The signal from the video camera may be output as 3G signals, HD-SDI signals, or SD-SDI signals. They can output signals with superimposed text characters and markers.

For details on settings, contact a Sony service or sales representative.

SDI I/O (3G/HD SDI input/output) 1/2/3/4 connectors (BNC-type)

These can be used as return video inputs, HD prompter inputs, camera video signal outputs, and HD-TRUNK outputs. Set them in NETWORK TRUNK on the <TRUNK/ PROMPTER> page of the MAINTENANCE menu according to the application.

SDI RET (3G/HD/SD SDI return video input) 1/2/3/4 connectors (BNC-type)

Four different 3G/HD/SD SDI return video input signals may be received independently. The selection of RET 1 to 4 is made by the return switch of the video camera. The aspect ratio can also be selected for an SD signal.

The type of input signal on RET 1 to 4 may be set individually using the setup menu, or using the MSU-1500 series Master Setup Unit.

For details on the setup menu, contact a Sony service or sales representative.

Refer also to the Master Setup Unit manual.

③ REFERENCE IN/OUT connectors (BNC-type)

Input an HD tri-level sync signal or SD reference signal (black burst signal, or black burst signal with 10-field ID) to the REFERENCE IN connector.

The input signal is output from the REFERENCE OUT connector as-is (loop-through). If loop-through output is not used, terminate the unused connector at 75 ohms.

INPUT area

① PROMPTER (tele-prompter input) 1/2 connectors (BNC-type)

Input the prompter signal of 1 channel or 2 channels depending on the setting of PROMPTER2/VBS-RET on the <REAR I/F> page of the SYSTEM CONFIG menu and PROMPTER CHANNEL MODE on the <TRUNK/ PROMPTER> page of the MAINTENANCE menu. When PROMPTER/VBS-RET is set to DISABLE, the input signal is output from the other connector as-is (loop-through). If loopthrough output is not used, terminate the unused connector at 75 ohms. When PROMPTER/VBS-RET is set to ENABLE, both connectors become inputs and they are terminated at 75 ohms inside the unit.

If the signal used is a 1.0 Vp-p, 75-ohm analog signal, it may be output from the PROMPTER OUT connector of the video camera with a frequency bandwidth of 5 MHz, regardless of signal format.

Note

In the case of the HDC5500, connect to the PROMPTER1 connector. It is not supported by the PROMPTER2 connector.

② VBS-RET (VBS return video input) connector* (BNC-type)

A single VBS return video signal can be input independently. * This connector doubles as the PROMPTER 2 connector.

The RET selection is made by the return switch of the video camera. The type of input signal on each RET connector may be set individually using the setup menu, or using the MSU-1000 series Master Setup Unit. The aspect ratio may also be selected for SD signals.

For details on setup menu operations, contact a Sony service or sales representative.

Refer also to the Master Setup Unit manual.

For details on how to select the signal, contact a Sony service or sales representative.

HDCU3500: UHD SDI A/B/C/D connectors (BNC-type)

The signal from the video camera is output as 3G/1.5G SDI signals.

If replaced with the HKCU-FB50 UHB Transmission Board Kit (option), the specifications become equivalent to the HDCU5500 and support UHD (4K) output.

When HZCU-UHD35 4K/HDR Processor Software (option) is installed, the signal from the video camera is output as a UHD (4K) SDI signal. The C and D connectors can also be used as input connectors.

For details on settings, contact a Sony service or sales representative.

HDCU5500, or HDCU3500 with HKCU-FB50 installed: UHD SDI A/B/C/D connectors (BNC-type)

The signal from the video camera is output as UHD (4K) SDI signals. The C and D connectors can also be used as input connectors.

For details on settings, contact a Sony service or sales representative.

CAMERA FIBER connector

Used to connect a video camera, using an optical fiber cable. All video camera signals, including power supply, control, video, and audio, are sent and received over one optical fiber cable.

Note

Dust on the connection surface of the optical fiber cable may result in transmission errors. When not connected, always cover the end of the connector with the supplied cap.

Option kit mounting port

The optional HKCU-SM50 Single Mode Fiber Connector Kit can be installed.

For an overview of option kits, see "Option Kits" (page 15).

AUDIO OUT CH1, CH2 (audio output 1, 2) connectors (XLR 3-pin)

Used to output the audio signal to the AUDIO IN connectors of the video camera.

Rear indicator

Displays calls and statuses.

INTWORK TRUNK connector (RJ-45 8-pin)

Used to connect the device connected to the NETWORK TRUNK connector of a camera with the network connection device.

LAN COM connector (RJ-45 8-pin)

Used to connect to a LAN. Connect a LAN hub (10BASE-T/ 100BASE-TX/1000BASE-T), using a LAN cable (shielded type of category 5 or higher).

INTERCOM/TALLY/IO (intercom / tally / input/output) connector (D-sub 50-pin)

Used to input and output intercom, tally, and program audio signals. Connect to the intercom/tally/program audio connector of the intercom system.

REAR PREVIEW function: Pin 35 is assigned for the output pin of the REAR PREVIEW function.

$m I\!O$ \sim AC IN (AC power input) connector

Use the specified AC power cord to connect to an AC power supply. The AC power cord can be secured to this unit using the plug holder (optional).

Option Kits

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.

HKCU-FB50 UHB Transmission Board Kit

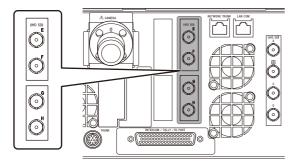
This unit is an option kit that replaces the **①** UHD SDI A/B/C/ D connectors on the rear of the HDCU3500 and enables 4K transfer on the HDCU3500.

Note

HZCU-UHD35 4K/HDR Processor Software (option) is required for 4K output.

HKCU-SDI50 12G-SDI Extension Kit

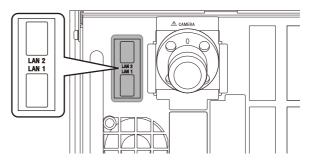
This unit is an option kit that can be installed in the option kit mounting port ③ on the rear of the HDCU5000 Camera Control Unit and enables support for 1-system quad 12G-SDI output at 4K.



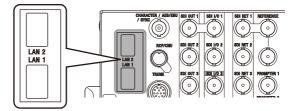
HKCU-SFP50 ST 2110 Interface Kit

This unit is an option kit that can be installed in the option kit mounting port **1** on the rear of the HDCU5000/5500/3500 Camera Control Unit and enables connection with SMPTE ST 2110 compliant devices.

For HDCU5000



For HDCU5500/3500



IP video signals and audio input/output, intercom, and network synchronization are performed using the LAN 1 and LAN 2 connectors (SFP+/SFP28). This enables one 4K and three HD IP inputs/outputs on the HDCU5000/5500/3500. For RCP/MSU device connection and IP tally input, use the

LAN COM connector.

The input/output signal format is set using <OUTPUT FORMAT IP> and <RETURN FORMAT IP> in the setup menu of the HDCU5000/5500/3500.

Note

An OTM-10GSR1 or other SFP+ module or SFP28 module is required to use IP output.

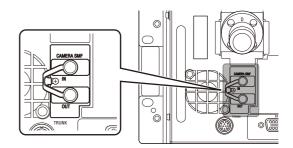
HKCU-SM50 Single Mode Fiber Connector Kit

This unit is an option kit that can be installed in the option kit mounting port (1) on the rear of the HDCU5000 Camera Control Unit or (2) on the rear of the HDCU5500/3500 Camera Control Unit, and enables single mode fiber transfer on the HDCU5000/5500/3500.

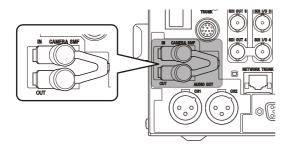
Note

It can only be used to connect with HDC3500/3100 and HDC2000-series cameras. It cannot be connected with the HDC5000/5500.

For HDCU5000



For HDCU5500/3500



The CAMERA SMF IN connector inputs the video signal from the camera, audio (microphone) signal, HD-TRUNK signal, and NETWORK TRUNK signal.

The CAMERA SMF OUT connector outputs the return video signal to the camera, prompter video signal, program audio signal, and NETWORK TRUNK signal. The RS-422A and RS-232C interfaces are also supported.

Note

Dust on the connection surface of the connector may result in transmission errors. When not connected, always cover the end of the connector with a cap.

Status Display

The CCU system status can be monitored using a video monitor connected to the CHARACTER, SDI OUT 3, or SDI OUT 4 connector.

Note

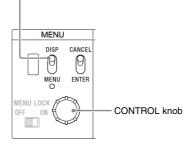
To use the SDI OUT 3 or SDI OUT 4 connector, set SYSTEM CONFIG \rightarrow <OUTPUT FORMAT1> \rightarrow SDI-OUT3 or SDI-OUT4 \rightarrow MONITOR in the setup menu to M.

For information on monitoring and changing settings, see "Settings Using the Menu of the Unit" (page 19).

Displaying the Status Screen

The menu screen is controlled using the knob and levers in the MENU control block on the front panel.

DISP/MENU lever



To display the status screen

Set the DISP/MENU lever to the DISP position. The most recently viewed status screen page is displayed (when first powered on, the camera settings page is displayed). Turning the CONTROL knob changes the displayed page.

To exit the status screen display

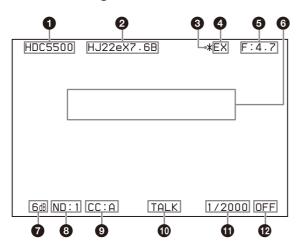
In status screen display mode, set the DISP/MENU lever to the DISP position.

Status Display Screen

The following information is displayed on the status display screen.

- · System status
- Input/output signal format information of each SDI connector
- Camera and unit audio status
- · Camera and unit intercom status
- Warning display

Camera settings



Camera name indication

Displays the name of the connected camera.

2 Lens file name indication

Displays the lens file name.

Is F drop indication

Displayed when an F drop occurs.

EX (lens extender) indication

Displayed during use of the lens extender.

F-stop value indication

Displays the lens F-stop value (iris value).

6 Camera auto control information area

Top: Displays the Auto Setup type and execution status. **Bottom:** Displays the execution item.

O Gain value indication

Displays the video output signal gain setting value (dB).

8 ND filter indication

Displays the currently selected ND filter type.

9 CC filter indication

Displays the currently selected CC filter type.

Camera microphone status indication

Displayed when the camera microphone is on.

Shutter speed/Clear scan frequency indication

Displays the shutter speed. When ECS is on, displays the clear scan frequency.

Shutter/ECS indication

Displays the on/off state of the shutter/ECS.

Notes

- Items that are turned off using the <DISPLAY> page settings of the VIDEO/MONITOR menu are not displayed.
- A "-" mark is displayed for each item when a camera is not connected.

System status

System Statu	us 01/11
Camera Forma	t :1080/59.94P
Camera Cable Cable Type Power Suppl Cable Lengt	у :On
CAM DD CCU DD CCU	
Reference	:Not Detected Unlock
CCU No.:96	RCP/MSU:Connected

Camera Format: Signal format of connected camera
Camera Cable: Camera cable connection status
Camera Type: Camera cable type
Power Supply: Camera power supply status
Cable Length: Cable length
CAM: Camera light sensor level
CCU: Control unit light sensor level
Reference: Reference signal format used and genlock status ("Not Detected" is displayed when a reference signal is not input.)
CCU No.: CCU number setting status
RCP/MSU: RCP/MSU connection status

Input/output signal format status of SDI connectors

SDI-OUT connectors

Multi Format1	02/11
SDI-OUT	
1:1080/59.94P/3G-A 0ETF:HLG_BT.2100	Color:BT.2020
2:1080/59.94P/3G-A 0ETF:HLG_BT.2100	Color:BT.2020
3:1080/59.94P/3G-A 0ETF:HLG_BT.2100	Color:BT.2020
4:1080/59.94P/3G-A 0ETF:HLG_BT.2100	Color:BT.2020

SDI-I/O connectors

Multi Format2	03/11
SDI-I/O	
1:1080/59.94P/3G-A 0ETF:HLG_BT.2100	Color:BT.2020
2:1080/59.94P/3G-A 0ETF:HLG_BT.2100	Color:BT.2020
3:(HD Trunk)	
4:(Disable)	

UHD-SDI connectors

Multi Format3	04/11
UHD-SDI	
A 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020
B 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020
C 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020
D 3840×2160/59.94P/126 OETF:HL6_BT2100 COLOR:	BT2020

Displayed only when HKCU-SDI50 is installed.

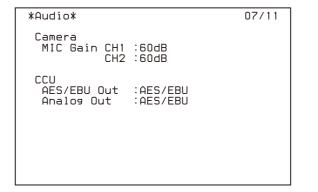
Multi Format4	05/11
UHD-SDI	
E 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020
F 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020
G 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020
H 3840×2160/59.94P/12G OETF:HLG_BT2100 COLOR:	BT2020

IP-OUT connectors

Displayed only when HKCU-SFP50 is installed.

Multi Format IP 06/11 IP-OUT 1:1080/59.94P/36-A 0ETF:HLG_BT.2100 Color: BT.2020 SOURCE:CAMERA 2:M 1080/59.94P/36-A 0ETF:HLG_BT.2100 Color: BT.2020 SOURCE:CAMERA 3:C 1080/59.94P/36-A 0ETF:HLG_BT.2100 Color: BT.2020 SOURCE:HLG_BT.2100 Color: BT.2020

Camera and unit audio status



- Camera MIC Gain CH1: Camera microphone circuit 1 amp gain status
- Camera MIC Gain CH2: Camera microphone circuit 2 amp gain status

CCU AES/EBU Out: Output format of the AES/EBU connector

CCU Analog Out: Output format of the analog output connector

Camera and unit intercom status

Intercom		08/11
Camera Engineer Producer	:MIC On :MIC Off	
CCU MIC/PGM Line	:MIC Off :System	

- Camera Engineer: Camera microphone status of the ENG line of the camera
- Camera Producer: Camera microphone status of the PROD line of the camera
- CCU MIC/PGM: Status of MIC/PGM switch on the front of the unit
- CCU Line: Intercom system connection status

Network status

Displayed only when HKCU-SFP50 is installed.

Netu	uork	09/11
SPD	1:Link UP 1:25G 1:RS-FEC	2∶Link U⊳ 2∶25G 2∶RS-FEC
	1:Disconnected 1:Locked	2:Disconnected 2:Locked
Ref	:1080/50I Locked	
RDS	:Connected	

LAN1: Link status of the LAN1 connector

SPD1: Link speed of the LAN1 connector

- FEC1: FEC setting for 25G of the LAN1 connector
- LSM1: Connection status of the LAN1 connector with Live System Manager

PTP1: Network genlock status of the LAN1 connector

- * The above items are also shown for the LAN2 connector.
- Ref: Used reference format setting and genlock status

RDS: Connection status with NMOS Registration & Discovery System

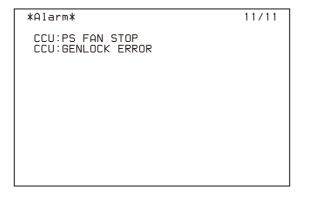
IP stream status

Displayed only when HKCU-SFP50 is installed.

IP Stream	10/11
OUT VIDEO1 VIDEO2 VIDEO3 	IN RETURN1 RETURN2 RETURN3
AUDIO HD TRUNK AUDIO	PGM
INTERCOM	INTERCOM
META1 META2 META3 	

Displays the stream status during IP transmission. **OUT:** Outgoing IP stream **IN:** Incoming IP stream -----: No incoming/outgoing stream

Warning display



Displays any warning that occurs.

Settings Using the Menu of the Unit

The CCU system and peripheral settings can be checked and modified using a video monitor connected to the CHARACTER, SDI OUT 3, or SDI OUT 4 connector.

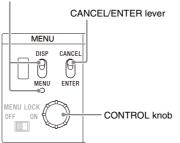
Note

To use the SDI OUT 3 or SDI OUT 4 connector, set SYSTEM CONFIG \rightarrow <OUTPUT FORMAT1> \rightarrow SDI-OUT3 or SDI-OUT4 \rightarrow MONITOR in the setup menu to M.

Changing Menu Item Settings

The menu screen is controlled using the knob and levers in the MENU control block on the front panel. Setting the CANCEL/ ENTER lever to the ENTER position and pressing the CONTROL knob perform the same function.

DISP/MENU lever and indicator

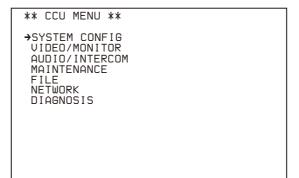


To display a menu page

Set the DISP/MENU lever to the MENU position. When first powered on, the CCU MENU page is displayed. When <OUTPUT FORMAT1> \rightarrow SDI-OUT4 \rightarrow MONITOR is set to C (characters are not added), you can hold the DISP/ MENU lever in the MENU position for 3 seconds to force display of the CCU MENU.

To display the CCU MENU page

In menu display mode, turn the CONTROL knob to move the pointer (\rightarrow) to TOP in the upper right corner of the menu page, then press the CONTROL knob. The CCU MENU showing the menu configuration is displayed.



Menu name	Description
SYSTEM CONFIG	Input/output signal format and system-related settings
VIDEO/MONITOR	Video-related settings
AUDIO/INTERCOM	Audio- and intercom-related settings
MAINTENANCE	CCU configuration settings
FILE	CCU file-related settings
NETWORK	Network-related settings
DIAGNOSIS	Displays the unit status.

To select an item in the CCU MENU

Turn the CONTROL knob to move the pointer (\rightarrow) up/down to the desired menu item, then press the CONTROL knob. The most recently viewed page in the selected menu is displayed.

To change the displayed page

1 Turn the CONTROL knob to move the pointer (→) to the page number, then press the CONTROL knob.

The pointer (\rightarrow) changes to a flashing question mark (?).

Flashing	
	OP
CABLE TYPE: FIBER CAMERA CABLE FIBER TRANSMIT RATE : HIGH OPTICAL SIGNAL : OFF	
BARS : OFF TEST : TEST1	
STARTUP VIDEO SIGNAL: GRAY	

2 Turn the CONTROL knob to change the displayed page to the desired page, then press the CONTROL knob.

The question mark (?) changes back to the pointer (\Longrightarrow) . Items on the page can now be selected and changed.

To change a menu item setting

If a question mark (?) is displayed beside the page number, press the CONTROL knob to restore the pointer (\rightarrow). Items on the page can now be selected and changed.

1 Turn the CONTROL knob to move the pointer to the desired item, then press the CONTROL knob.

The pointer (\Longrightarrow) changes to a flashing question mark (?).

2 Turn the CONTROL knob to change the setting.

To cancel a changed setting

Set the CANCEL/ENTER lever to the CANCEL position before pressing the CONTROL knob. The item is restored to its current setting.

To suspend menu changes

Set the DISP/MENU lever to the MENU position to exit the menu screen.

The DISP/MENU lever can be set to the MENU position again to restart the operation.

3 Press the CONTROL knob.

The question mark (?) changes back to the pointer (\rightarrow) , and the item setting is registered.

4 Repeat steps 1 to 3 to change other settings on the same page.

To enter a character string

Some menu items require a character string input. Moving the pointer (→) to an item with a character string input and pressing the CONTROL knob displays a rectangular cursor and a list of selectable characters. Turning the CONTROL knob moves the cursor between characters. The following menu item has character strings:

- VIDEO/MONITOR menu → BAR CHARACTER page → BAR CHARACTER
- **1** Move the text cursor to the input position, then press the CONTROL knob.

A second cursor is displayed in the character list.

2 Turn the CONTROL knob to move the cursor to the desired character, then press the CONTROL knob.

Repeat steps 1 and 2 to enter other characters.

- Select INS to insert a space character at the cursor position.
- Select DEL to delete the character at the cursor position.
- Select RET to return to step 1 without changing the string.
- Entering the maximum number of characters (up to the right edge) moves the cursor to ESC on the lower right of the character list.
- **3** Turn the CONTROL knob to move the cursor to END, then press the CONTROL knob.

The new input string is registered.

To cancel the character string setting Turn the CONTROL knob to move the cursor to ESC, then press the CONTROL knob.

To exit the menu display

In menu display mode, set the DISP/MENU lever to the MENU position.

Settings Using the Web Menu

You can configure the unit, execute functions, and monitor settings information using the web menu. You can also monitor tally information and monitor the front panel information of the CCUs (camera control unit) connected to a private network on the same subnet as the unit. The web menu is accessed using a web browser on a PC.

Note

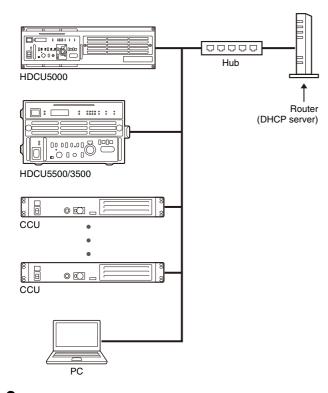
Use of a monitor with resolution 1000×720 or higher is recommended to display the web menu normally.

Accessing the Web Menu

1 Referring to the following connection example, connect a PC which has a web browser installed and the unit on the same private network.

Note

The unit uses the multicast protocol for acquiring and updating information from other CCUs on the same subnet. Accordingly, use of a router that supports the IGMP Snooping function is recommended. If the IGMP Snooping function is not available, CCU information will be present on the network in the broadcasting state, increasing the load of devices on the same network. When <WEB MENU> \rightarrow SERVICE DISCOVERY is set to OFF in the NETWORK menu, the multicast protocol is not used and only the information for the local unit is acquired and displayed.



2 Check that the devices are turned on.

- 3 Check that <WEB MENU> → WEB MENU is set to ENABLE in the NETWORK menu.
- 4 Check the network settings of the unit using one of the following.
 - In the setup menu of the unit (page 19), set <IP ADDRESS> → PORT to LAN-COM in the NETWORK menu to display the IP address of the unit and the subnet mask on the menu display.
 - On the front panel of the unit, push and hold the DISP/ MENU lever up in the DISP position for 3 seconds to display the IP address and subnet mask in the CCU number display area.
- 5 Enter the IP address of the unit in the web browser.

The web menu is accessed.

Web Browsers

The use of Chrome is recommended. Use of a web browser other than Chrome may corrupt the layout of the web menu or may cause some functions to operate incorrectly.

Structure of the Web Menu

The web menu is comprised by an area showing the settings and information of the unit and an area showing a list view of the information for other CCU units on the same subnet.

											☆		
System (Camera CCU				CCU:NET P	LD ERR	OR						
6										OSD	Menu	Call	
	Model	S/N	Ver.	CAM	CCU	Power	Ref In	Unlock	Open	Short	Fan Stop	Alarm	
	HDCU5000	12345678	V1.00UXZ			•	•	•	0	0	0	0	
	Camera Forma Camera Cable RCP/MSU		ed	HDR Mode Cable Type	Eive HDR	iera Cat	ble	Cat	ble Lengt	h -10	0m		
CCU List													
No.	Model	S/N	Ver.	Camera	CCU	Power	Ref In	Unlock	Open	Short	Fan Stop	Alarm	
1	HDCU5500	12345678	V1.00UXZ			•	•	•	0	•	•	0	1
2	HDCU3500	12345678	V1.00UXZ			0	0	0	•	0	0	0	1
3	HDCU3100	12345678	V1.00UXZ			0	•	0	0	0	0	0	1
4	HDCU5500	12345678	V1.00UXZ			0	0	0	0	0	0	0	\boldsymbol{c}
5	HDCU3500	12345678	V1.00UXZ			0	•	0	0	0	0	•	(
	HDCU5000	12345678	V1.00UXZ			•	•	•	0	0	0	0	
6								~				0	
6 7	HDCU5500	12345678	V1.00UXZ			0	•	0	0	0	0		
	HDCU5500 HDCU3500		V1.00UXZ V1.00UXZ			•	•	0	0	0	0	0	
7		12345678					-	-	-				(
7	HDCU3500	12345678 12345678	V1.00UXZ			•	0	0	0	0	0	0	
7 8 9	HDCU3500 HDCU3100	12345678 12345678 12345678	V1.00UXZ V1.00UXZ			•	0	0	0	0	0	0	
7 8 9 10	HDCU3500 HDCU3100 HDCU5500	12345678 12345678 12345678 12345678	V1.00UXZ V1.00UXZ V1.00UXZ			•	•	0	0	0	0 0 0	0 0 0	
7 8 9 10 11	HDCU3500 HDCU3100 HDCU5500 HDCU3500	12345678 12345678 12345678 12345678 12345678 12345678	V1.00UXZ V1.00UXZ V1.00UXZ V1.00UXZ			• • •	•	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0	

1 Unit settings/information display area

For details, see "Name and Function of Settings/Information Display Area" (page 23).

2 Information about CCU units on the same subnet

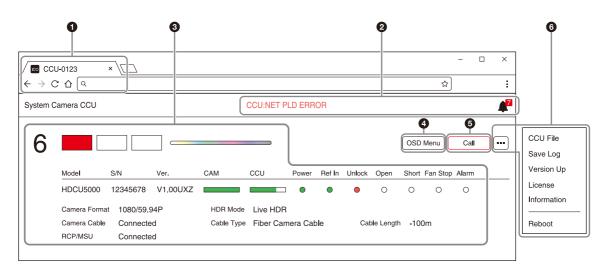
For details, see "CCU Information List Screen" (page 24).

Notes

- The web menu actually displays white text on a dark gray background. The illustrations in this document show the colors reversed for increased clarity.
- Information for CCU units on another VLAN cannot be displayed.
- When the menu lock switch of the unit is in the ON position, the unit cannot be configured from the web menu.
- If the IP address is changed by direct operation on the unit or OSD operation in the web menu, a dialog displaying the changed IP address information appears in the web menu. Click the link in the dialog to reconnect to the unit using the new IP address and display the web menu again.

• If connection with a CCU being accessed using the web menu is lost for 30 seconds, a dialog appears and an attempt is made to reconnect. If 30 minutes elapse without reestablishing a connection, a dialog appears that prompts you to reload. If a connection is not reestablished in this dialog, the connection process is aborted and connection with the CCU is lost.

Name and Function of Settings/Information Display Area



Note

When a setting of the unit is changed using the setup menu, the display in the web menu is also updated.

Favicon / CCU number display

Displays the favicon and CCU number in a tab.

Error message display

Displays the number of current errors at the top right of the \clubsuit icon. Click the \clubsuit icon to display the error messages in a pull-down list.

Error messages are also displayed in the center of the header. If there are multiple error messages, the error messages are displayed alternately at a set interval while they are blinking.

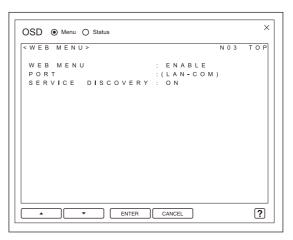
In the second second

Displays information about the front panel of the unit. The light sensor level of the camera and CCU are displayed in nine gradations of bar color and length.

Light sensor level	Bar display
High	(Bar color: green)
	(Bar color: yellow)
	(Bar color: yellow)
	(Bar color: red)
★ Low	(Bar color: red)
LOW	(No bar display)

OSD Menu button

Click to display the OSD menu screen of the unit. The configuration items displayed on the OSD menu screen are the same as those displayed in the setup menu of the unit. You can switch between the OSD menu screen display and the status screen display of the status of the unit.



Click the Δ (up) button and \forall (down) button at the bottom of the screen to switch between screens. Clicking the ENTER button applies/executes a setting. Clicking the CANCEL button cancels a setting.

You can operate the unit using these buttons, the knobs and levers on the front panel, a mouse, or a keyboard.

OSD menu button	Front panel knob/lever	Mouse	Keyboard
Δ button	CONTROL knob	Scroll up	1
∇ button	CONTROL knob	Scroll down	Ļ
ENTER button	CANCEL/ENTER lever	Left-click	\rightarrow
CANCEL button	CANCEL/ENTER lever	Right-click	←

Note

When a setting of the unit is changed using the setup menu, the display in the OSD menu screen is also updated.

Help screen

Clicking the **?** icon at the bottom right of the screen displays a help screen describing how to operate the OSD menu.

G Call button

The call button of the unit lights up while the Call button is pressed using a mouse. Also, the display of the Call button on the screen changes to dark red while the Call button of the unit is pressed.

6 \cdots button

Click to display a context menu containing a list of the functions that can be executed from the web menu.

CCU File: Executes the same functions as on the <CCU FILE> page of the FILE menu of the unit. You can upload a CCU file stored on a PC to the unit, or download a CCU file from the unit to a PC.

Save Log: Downloads the log file (log.zip) of the unit.

- Version Up: Store the package file on the PC used to access the web menu before updating the unit using this function. During the update process, a screen indicating that the unit is updating appears in the web menu. When the update is completed, the unit restarts automatically and the web menu connects again automatically.
- License: Downloads the device information file (DEVICE.DAT) required for license authentication to a PC via the web menu. It can also perform the following operations which are equivalent to functions on the <OPTION> page of the MAINTENANCE menu.
 ① Install license key (USB flash drive not required)
 ② Check the status of software licenses
 Information: Displays software license information
- (equivalent to the <OPTION> page of the MAINTENANCE menu), version information (equivalent to the <VERSION> page of the DIAGNOSIS menu), and camera diagnosis information (equivalent to the <CAMERA DIAGNOSIS> page of the DIAGNOSIS menu).

Reboot: Reboots the unit.

CCU Information List Screen

This screen displays information about CCU units on the same subnet in list view sorted by CCU number. To display the CCU information list, set <WEB MENU> → SERVICE DISCOVERY to ON in the NETWORK menu.

CCU Li	st												
No	. Model	S/N	Ver.	Camera	CCU	Power	Ref In	Unlock	Open	Short	Fan Stop	Alarm	
1	HDCU5500	12345678	V1.00UXZ			•	•	•	0	•	•	0	1
2	HDCU3500	12345678	V1.00UXZ			0	0	0	•	0	0	0	1
3	HDCU3100	12345678	V1.00UXZ			0	•	0	0	0	0	0	1
4	HDCU5500	12345678	V1.00UXZ			0	0	0	0	0	0	0	1
5	HDCU3500	12345678	V1.00UXZ			0	•	0	0	0	0	•	
6	HDCU5000	12345678	V1.00UXZ			•	•	•	0	0	0	0	
7	HDCU5500	12345678	V1.00UXZ			0	•	0	0	0	0	0	
8	HDCU3500	12345678	V1.00UXZ			•	0	0	0	0	0	0	1
9	HDCU3100	12345678	V1.00UXZ			•	•	0	0	0	0	0	1
10	HDCU5500	12345678	V1.00UXZ			0	0	0	0	0	0	0	1
11	HDCU3500	12345678	V1.00UXZ			•	•	0	0	0	0	0	
12	HDCU3500	12345678	V1.00UXZ			•	0	0	0	0	0	0	,
13	HDCU3500	12345678	V1.00UXZ			•	•	0	0	0	0	0	
14	HDCU3500	12345678	V1.00UXZ			0	0	0	0	0	0	0	

Notes

- The information displayed in the CCU information list is acquired via the network. There may be a short delay before the information is reflected on the screen compared to the settings/information display area.
- If communication from a CCU is not received for 30 seconds, the corresponding CCU row becomes gray. When updated information is detected, the background color returns to normal.
- When the setting of a CCU displayed in the list changes, the display of the list is updated.
- Models supported by the CCU information list display are HDCU3100 V2.2 and later, HDCU3170 V2.2 and later, and HDCU5000/5500/3500 V1.0 and later.

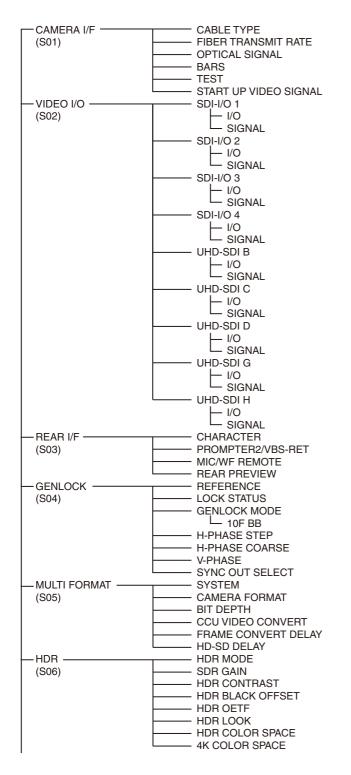
The front panel information of each CCU is displayed on each row. You can switch to the web menu of a CCU by clicking the
to button.

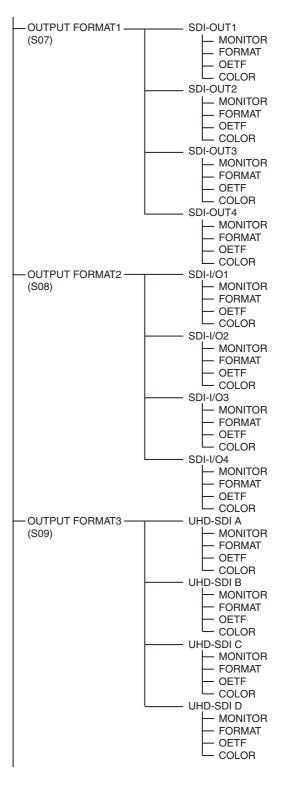
The
button is not displayed in the row of the currently accessed CCU. The background color also differs from the other rows.

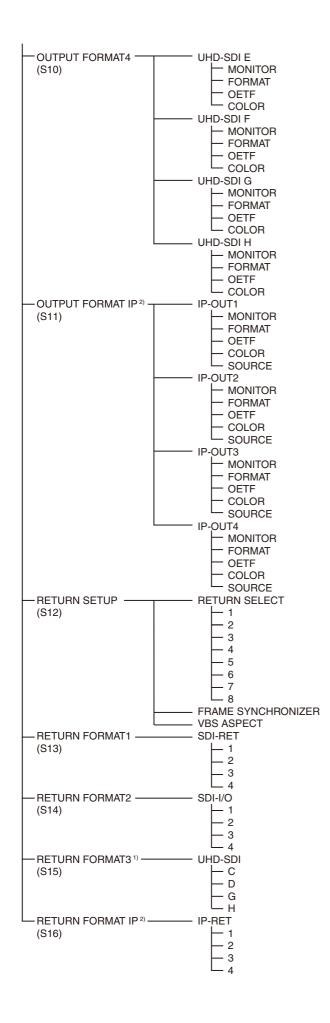
Menu Tree

SYSTEM CONFIG Menu

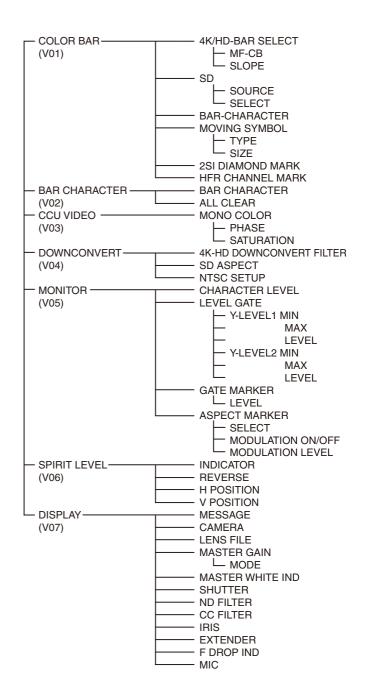
Menu items marked "1)" are displayed only for HDCU5000/ 5500 or HDCU3500 (with HZCU-UHD35 installed). Menu items marked "2)" are displayed only when HKCU-SFP50 is installed.





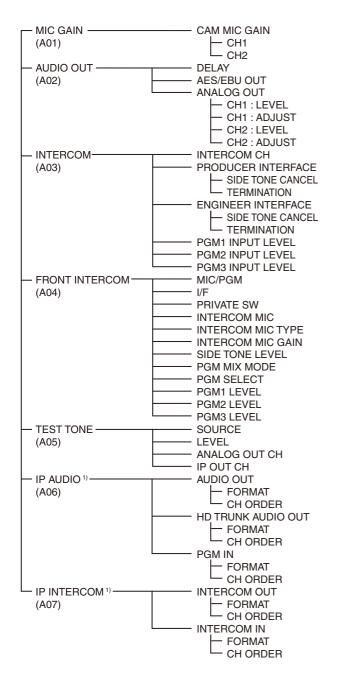


VIDEO/MONITOR Menu



AUDIO/INTERCOM Menu

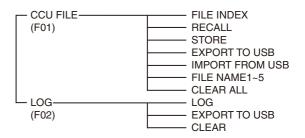
Menu items marked "1)" are displayed only when HKCU-SFP50 is installed.



MAINTENANCE Menu

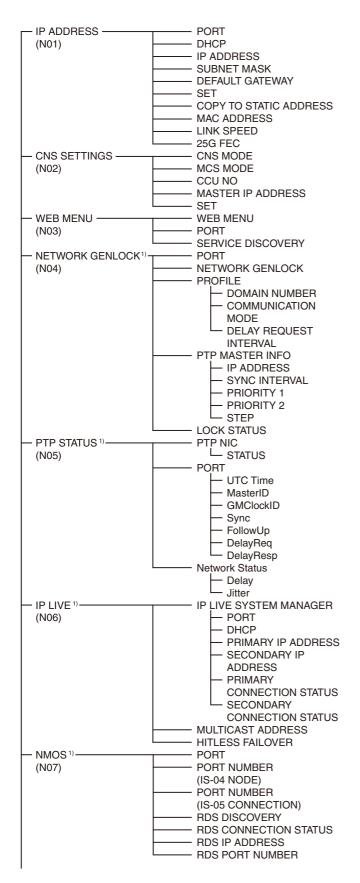
TRUNK/PROMPTER(M01)	- TRUNK LINE CHANNEL MODE INTERFACE
— TRUNK/PROMPTER2 — (M02)	- PROMPTER CH - NETWORK TRUNK - DATA RATE - CAMERA - HD/UHD TRUNK - DATA RATE - HD PROMPTER - FRAME SYNC - SOURCE - UHD PROMPTER - UHD PROMPTER
- MENU SETTINGS	DATA RATE FRAME SYNC SOURCE PAGE RESUME
(M03)	- ALARM JUMP - CAMERA MENU CTRL
	- DATE (YEAR)
(M04)	- DATE (MONTH) - DATE (DAY) - TIME (HOUR) - TIME (MINUTE) - TIME ZONE (HOUR)
	- TIME ZONE (MINUTE) - R-TALLY
(M05)	- G-TALLY
	- Y-TALLY - FORCE LEGACY
(M06)	- CABLE OPEN
(M07)	- genlock error - Video Payload ID - Embed Audio - Embed Meta Data
	- ASSIGNABLE SWITCH
(M08)	- SIGNAL BAR DISPLAY READY COLOR BRIGHTNESS
	- READ KEY FROM USB
(/	- INSTALLED OPTIONS - HARDWARE OPTIONS
MISC	- OPTICAL SIGNAL BACKUP
(M10)	

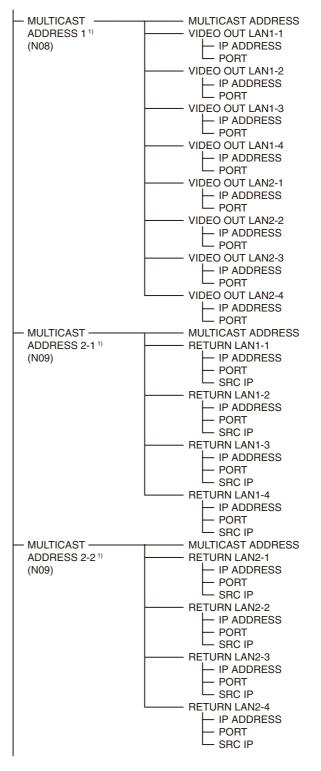
FILE Menu

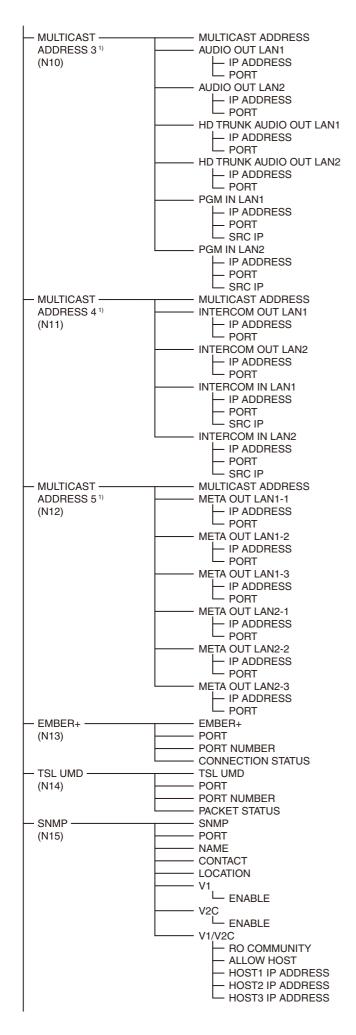


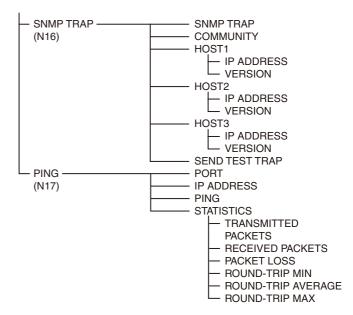
NETWORK Menu

Menu items marked "1)" are displayed only when HKCU-SFP50 is installed.





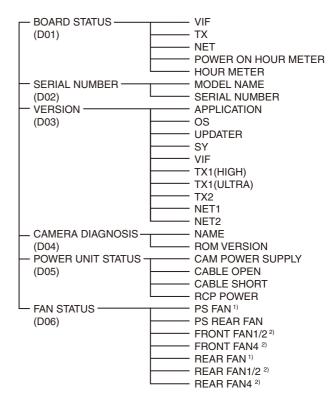




DIAGNOSIS Menu

Menu items marked "1)" are displayed only on the HDCU5500/ 3500.

Menu items marked "2)" are displayed only on the HDCU5000.



Menu List

Legend

The following conventions are used in the menu list table.

Settings column values (e.g. ON, OFF, 0): Default settings are underlined

Execute using ENTER: When using the setup menu directly, press the CONTROL knob or move the CANCEL/ENTER lever to the ENTER position to execute. When using the web menu, click the ENTER button in the OSD menu to execute.

SYSTEM CONFIG Menu

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<camera f="" i=""> S01</camera>	CABLE TYPE	FIBER CAMERA CABLE, COAX, COAX(HDCE), SINGLE-MODE	Specifies the cable type used for connecting the camera.
		FIBER	SINGLE-MODE FIBER: Selectable only when the HKCU-SM50 is installed.
	FIBER TRANSMIT RATE	<u>HIGH</u> , ULTRA,	Sets the transfer rate when an optical fiber cable is connected.
			HIGH: When the HDC3500 (without HKC-FB50 installed), HDC3100, or HDC2000 series is connected
			ULTRA: When the HDC5000/5500 or HDC3500 (with HKC-FB50 installed) is connected
			: When CABLE TYPE is set to COAX or COAX(HDCE)
	OPTICAL SIGNAL	ON, <u>OFF</u>	Turns the optical signal output from the CCU to the camera ON/OFF.
			(Displayed only when connected using optical fiber composite cable.)
	BARS	<u>OFF</u> , ON	Turns color bars ON/OFF.
	TEST	OFF, TEST1, TEST2	Turns TEST SAW ON/OFF.
	START UP VIDEO SIGNAL	BARS , GRAY	Selects the signal to output until the unit connects with the camera after power-on.
<video i="" o=""></video>	SDI-I/O 1		Sets SDI I/O 1.
S02	I/O	IN, <u>OUT</u>	Selects input or output.
	SIGNAL	When OUT is selected in I/O:	Sets the signal function.
		<u>SDI-OUT</u>	
		When IN is selected in I/O:	
		SDI-RET	
	SDI-I/O 2		Sets SDI I/O 2.
	I/O	IN, <u>OUT</u>	Selects input or output.
	SIGNAL	When OUT is selected in I/O:	Sets the signal function.
		SDI-OUT	
		When IN is selected in I/O:	
		SDI-RET	
	SDI-I/O 3		Sets SDI I/O 3.
	I/O	IN, <u>OUT</u>	Selects input or output.
	SIGNAL	When OUT is selected in I/O:	Sets the signal function.
		SDI-OUT, <u>HD TRUNK</u>	
		When IN is selected in I/O:	
		SDI-RET	

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<video i="" o=""></video>	SDI-I/O 4		Sets SDI I/O 4.
S02	I/O	<u>IN</u> , OUT	Selects input or output.
	SIGNAL	When OUT is selected in I/O: SDI-OUT	Sets the signal function.
		When IN is selected in I/O: SDI-RET, <u>HD PROMPTER</u>	
	UHD-SDI B		Sets UHD-SDI B.
	I/O	<u>OUT</u>	Output (fixed)
	SIGNAL	<u>SDI-OUT</u> , UHD TRUNK	Sets the signal function.
			Note
			UHD TRUNK is available on the HDCU5000/5500 only.
	UHD-SDI C		Sets UHD-SDI C.
	I/O	IN, OUT	Selects input or output.
	SIGNAL	When OUT is selected in I/O: SDI-OUT	Sets the signal function.
		When IN is selected in I/O:	
		SDI-RET	
	UHD-SDI D		Sets UHD-SDI D.
	I/O	IN, <u>OUT</u>	Selects input or output.
	SIGNAL	When OUT is selected in I/O: SDI-OUT	Sets the signal function.
		When IN is selected in I/O:	Note
		SDI-RET, UHD PROMPTER	UHD PROMPTER is available on the HDCU5000/ 5500 only.
	UHD-SDI G		Sets UHD-SDI G.
	I/O	IN, <u>OUT</u>	Selects input or output.
	SIGNAL	When OUT is selected in I/O: SDI-OUT	Sets the signal function.
		When IN is selected in I/O: SDI-RET	
	UHD-SDI H		Sets UHD-SDI H.
	I/O	IN, <u>OUT</u>	Selects input or output.
	SIGNAL	When OUT is selected in I/O: SDI-OUT	Sets the signal function.
		When IN is selected in I/O: SDI-RET	

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<rear f="" i=""> S03</rear>	CHARACTER	CHARACTER, AES/EBU, SYNC	Sets the function to assign to the CHARACTER, AES/EBU, SYNC connector.
			CHARACTER: Set to VBS output on which character superposition is performed.
			AES/EBU: Set to AES/EBU output.
			Note
			AES/EBU is available on the HDCU5500/3500 only. SYNC: Set to SD composite sync or HD tri-level reference sync signal output from the internal sync signal generator.
	PROMPTER2/ VBS-RET	ENABLE	Sets the function to assign to the PROMPTER2/ VBS-RET connector.
			Note
			Set to ENABLE (fixed).
			ENABLE: Set to both signal input for the second tele-prompter and VBS return signal input.
	MIC/WF REMOTE	MIC REMOTE, WF REMOTE	Switches the function of pins 36 to 43 when a D-Sub 50-pin board is mounted as the INTERCOM/TALLY, IO PORT connector.
	REAR PREVIEW	MOMENTARY, TOGGLE	Sets the operation mode of the REAR PREVIEW connector output.
<genlock> S04</genlock>	REFERENCE	NOT DETECTED, EXT IN, 1080/59.94I, 1080/23.98PsF, 720/59.94P, 1080/50I, 1080/24PsF, 720/50P	Signal input of the REFERENCE IN connector (Display only).
	LOCK STATUS	When HD or SD is selected in GENLOCK MODE:	Lock status of the external reference signal (Display only).
		LOCKED, NOT LOCKED	
	GENLOCK MODE	HD, <u>SD</u> , NETWORK	Sets the lock mode of the external reference signal.
			Notes
			NETWORK is displayed only when the HKCU-SFP50 ST 2110 Interface Kit is installed.
			Set to NETWORK if operating within an SMPTE ST 2110 compliant system.
			 When set to NETWORK, an external reference input on the REFERENCE IN connector is not required, and network synchronization operates using the LAN 1 and LAN 2 connectors of the HKCU-SFP50. The network synchronization setting is configured on the <network GENLOCK> page of the NETWORK menu.</network
	10F BB	<u>OFF</u> , ON	Sets whether to use the 10-field ID added to the external reference signal
			This can be selected when GENLOCK MODE is SE and <multi format=""> page \rightarrow SYSTEM is 1.001(525).</multi>
	H-PHASE STEP	When HD is selected in GENLOCK MODE: -3.01 to 3.45 µsec 0.00	
		When SD is selected in GENLOCK MODE: -8.29 to 9.48 µsec 0.00	
	H-PHASE COARSE	–99 to 99, <u>0</u>	Adjusts the horizontal lock phase in relation to the reference signal (fine adjustment)
	V-PHASE	<u>0</u> to 7	Adjusts the vertical lock phase in relation to the reference signal (line)
	SYNC OUT SELECT	SD SYNC, HD SYNC	Sets the output signal of the REFERENCE OUT connector.

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<multi format=""></multi>	SYSTEM	<u>1.001(525)</u> , 1.000(625)	Selects the operating frequency of the system.
Page No.		1.001(525), 1.000(625) When FIBER TRANSMIT RATE is set to ULTRA and 1.001(525) is selected in SYSTEM: 3840×2160/59.94P(2×), 3840×2160/59.94P, 3840×2160/23.98P, 1080/59.94P, 1080/29.97PsF, 1080/23.98PsF, 1080/29.97PsF, 1080/23.98PsF, 1080/29.97PsF (RGB444), 1080/29.97PsF (RGB444), 1080/29.97PsF (RGB444), 1080/29.97PsF (RGB444), 1080/59.94P(2×), 1080/59.94P(3×), 1080/59.94P(2×), 1080/59.94P(6×), 1080/59.94P(8×) When FIBER TRANSMIT RATE is set to ULTRA and 1.000(625) is selected in SYSTEM: 3840×2160/50P, (2×), 3840×2160/50P, (2×), 3840×2160/50P, (2×), 3840×2160/24P, 1080/50P, 1080/25PsF, RGB444), 1080/25PsF, RGB444), 1080/25PsF, RGB444), 1080/50P(2×), 1080/50P(6×), 1080/50P(4×), 1080/50P(6×), 1080/50P(8×) When FIBER TRANSMIT RATE is set to HIGH and 1.001(525) is selected in SYSTEM: UHD/59.94P (4K/HDR), 1080/59.94P, 1080/59.94I, 1080/29.97PsF, 1080/23.98PsF, 720/59.94P, 1080/29.97PsF (RGB444), 1080	•
		1080/50P (4K/HDR), 1080/50P, <u>1080/50I</u> , 1080/25PsF, 1080/24PsF, 720/50P, 1080/50I (RGB444), 1080/25PsF (RGB444), 1080/24PsF (RGB444), 1080/50I(2x), 720/50P(2x)	
	BIT DEPTH	1080/24PsF (RGB444),	Sets the RGB4:4:4 output bit length, and changes the CCU output format. This can be selected only when CAMERA FORMAT is set to 1080/59.94I (RGB444), 1080/29.97PsF (PCB444), 1080/29.98PsF (PCB444), 1080/29.97PsF
			(RGB444), 1080/23.98PsF (RGB444), 1080/50I (RGB444), 1080/25PsF (RGB444), or 1080/24PsF (RGB444).

SYSTEM CONFIG					
Page name Page No.	Item	Set value	Description		
<multi format=""></multi>	CCU VIDEO	DISABLE , ENABLE	Sets the video converter function.		
S05	CONVERT		Set to ENABLE when CAMEF the following.	RA FORMAT is set to	
			CAMERA FORMAT	Conversion output	
			3840×2160/59.94P(2×)	720/59.94P	
			3840×2160/59.94P		
			UHD/59.94P(4K/HDR)		
			1080/59.94P(4K/HDR)		
			1080/59.94P		
			1080/59.94P(2×), (3×), (4×), (6×), (8×)		
			3840×2160/50P(2×)	720/50P	
			3840×2160/50P		
			UHD/50P(4K/HDR)		
			1080/50P(4K/HDR)		
			1080/50P		
			1080/50P(2×), (3×), (4×), (6×), (8×)		
			When ENABLE is selected, set FRAME SYNCHRONIZER to ON.		
			Tip: When CCU VIDEO CON ENABLE, the video convert fu introduces a delay, which is c advancing the camera signal.	unction within the CCU compensated for by	
	FRAME CONVERT	0.8, 1.2, <u>1.6</u> [F@23.98PsF]	Sets the video delay time for 2-3 Pulldown.		
	DELAY		This is enabled only when SY	'STEM is 1.001(525).	
	HD-SD DELAY	LINE, FRAME	Sets the delay for SD signals HD signals.	down-converted from	
		90H, 120H, <u>1F</u> , 2F	The delay duration display wil CAMERA FORMAT is set to a		
			When LINE is selected: 90H	I	
			When FRAME is selected: 1	F	
			The delay duration display wil CAMERA FORMAT is set to a		
			When LINE is selected: 120	Н	
			When FRAME is selected: 2	2F	

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<hdr></hdr>	HDR MODE	<u>OFF</u> , LIVE HDR	OFF: Normal shooting operation.
S06			LIVE HDR: Used for LIVE HDR shooting.
			Note
			When LIVE HDR is selected, camera paint functions can be used for both HDR output and SDR output. However, some paint functions are not supported fo HDR output.
	SDR GAIN	–15 to 0.0, <u>0</u> dB	Enabled in LIVE HDR mode only.
			Gain setting applied to SDR output
	HDR CONTRAST	<u>100</u> to 560%	Enabled in LIVE HDR mode only.
			HDR output contrast maintained by setting SDR GAIN (Display only)
	HDR BLACK	–99 to 99, <u>0</u>	Enabled in LIVE HDR mode only.
	OFFSET		HDR output black offset
	HDR OETF	<u>S-Log3</u> , HLG	Sets the video output OETF.
	HDR LOOK	Natural, Mild, <u>Live</u>	Sets the video output LOOK.
	HDR COLOR SPACE	<u>BT709</u> , BT2020	Selects the color space of the video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	4K COLOR SPACE	<u>BT709</u> , BT2020	Selects the color space of 4K video output.
			Same settings as HDR COLOR SPACE when HDR MODE is set to LIVE HDR.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<output format1=""></output>	SDI-OUT1		Sets the output for the SDI OUT 1 connector.
S07	MONITOR	C	Sets whether to add characters to the output signal. C: Characters are not added.
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI OUT 1 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-OUT1 video output. BT709: Sets the color output format to BT709. BT2020: Sets the color output format to BT2020.
	SDI-OUT2		Sets the output for the SDI OUT 2 connector.
	MONITOR	C	Sets whether to add characters to the output signal. C: Characters are not added. Note This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI OUT 2 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-OUT2 video output. BT709: Sets the color output format to BT709. BT2020: Sets the color output format to BT2020.

SYSTEM CONFIG			
Page name Page No.	ltem	Set value	Description
<output format1=""></output>	SDI-OUT3		Sets the output for the SDI OUT 3 connector.
507	MONITOR	C, <u>M</u>	Sets whether to add characters to the output signal.
			C: Characters are not added.
			M: Characters are added.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI OUT 3 connector.
	OETF	SDR, HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-OUT3 video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	SDI-OUT4		Sets the output for the SDI OUT 4 connector.
	MONITOR	С, <u>М</u>	Sets whether to add characters to the output signal.
			C: Characters are not added.
			M: Characters are added.
			Note
			When this is set to C (characters are not added), the CCU MENU will not be displayed. To display it, hold the DISP/MENU lever in the MENU position for 3 seconds.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI OUT 4 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-OUT4 video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.

Page name	Item	Set value	Description
Page No.			
OUTPUT FORMAT2>	SDI-I/O1		Sets the output for the SDI I/O 1 connector.
08	MONITOR	С	Sets whether to add characters to the output signa
			C: Characters are not added.
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI I/O 1 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-I/O1 video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	SDI-I/O2		Sets the output for the SDI I/O 2 connector.
	MONITOR	C	Sets whether to add characters to the output signal C: Characters are not added.
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI I/O 2 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-I/O2 video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<output format2=""></output>	SDI-I/O3		Sets the output for the SDI I/O 3 connector.
S08	MONITOR	C	Sets whether to add characters to the output signal. C: Characters are not added. Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI I/O 3 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-I/O3 video output. BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	SDI-I/O4		Sets the output for the SDI I/O 4 connector.
	MONITOR	C	Sets whether to add characters to the output signal C: Characters are not added. Note This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the SDI I/O 4 connector.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of SDI-I/O4 video output. BT709: Sets the color output format to BT709. BT2020: Sets the color output format to BT2020.

Item	Set value	Description
UHD-SDI A		Sets the output of the UHD SDI A connector.
MONITOR	C	Sets whether to add characters to the output signal. C: Characters are not added. Note
		This is fixed to C.
FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI A connector.
OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
COLOR	BT709, BT2020	Selects the color space of UHD-SDI A video output. BT709: Sets the color output format to BT709. BT2020: Sets the color output format to BT2020.
UHD-SDI B		Sets the output of the UHD SDI B connector.
MONITOR	C	Sets whether to add characters to the output signal. C: Characters are not added. Note This is fixed to C.
FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI B connector.
OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
COLOR	BT709, BT2020	Selects the color space of UHD-SDI B video output BT709: Sets the color output format to BT709. BT2020: Sets the color output format to BT2020.
	UHD-SDI A MONITOR FORMAT	UHD-SDI AMONITORCFORMATFIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62OETFSDR, 4K OETF COLORUHD-SDI B MONITORCFORMATFIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 62OETFSDR, 4K OETF FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 62UHD-SDI B MONITORCFORMATFIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62OETFSDR, 4K OETF

SYSTEM CONFIG			
Page name Page No.	ltem	Set value	Description
OUTPUT FORMAT3>	UHD-SDI C		Sets the output of the UHD SDI C connector.
S09	MONITOR	С	Sets whether to add characters to the output signal
			C: Characters are not added.
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI C connector.
	OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of UHD-SDI C video output
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	UHD-SDI D		Sets the output of the UHD SDI D connector.
	MONITOR	С	Sets whether to add characters to the output signal
			C: Characters are not added.
			Note
			This is fixed to C.
	FORMAT		
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI D connector.
	OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of UHD-SDI D video output
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<output format4=""></output>	UHD-SDI E		Sets the output of the UHD SDI E connector.
S10	MONITOR	С	Sets whether to add characters to the output signal.
Displayed only when			C: Characters are not added.
HKCU-SDI50 is installed.			
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI E connector.
	OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of UHD-SDI E video output
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	UHD-SDI F		Sets the output of the UHD SDI F connector.
	MONITOR	C	Sets whether to add characters to the output signal C: Characters are not added.
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI F connector.
	OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of UHD-SDI F video output
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.

SYSTEM CONFIG			
Page name Page No.	ltem	Set value	Description
<output format4=""></output>	UHD-SDI G		Sets the output of the UHD SDI G connector.
S10	MONITOR	С	Sets whether to add characters to the output signal.
Displayed only when			C: Characters are not added.
HKCU-SDI50 is installed.			
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI G connector.
	OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of UHD-SDI G video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	UHD-SDI H		Sets the output of the UHD SDI H connector.
	MONITOR	С	Sets whether to add characters to the output signal.
			C: Characters are not added.
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the UHD SDI H connector.
	OETF	SDR, 4K OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of UHD-SDI H video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<output format="" ip=""></output>	IP-OUT1		Sets the output for the LAN 1 and LAN 2 connectors.
S11	MONITOR	С	Sets whether to add characters to the output signal.
Displayed only when HKCU-SFP50 is installed.			C: Characters are not added.
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the LAN 1 and LAN 2 connectors.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of IP-OUT1 video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	SOURCE	CAMERA	Selects the signal source to output.
	IP-OUT2		Sets the output for the LAN 1 and LAN 2 connectors.
	MONITOR	<u>C</u> , M	Sets whether to add characters to the output signal.
			C: Characters are not added.
			M: Characters are added.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the LAN 1 and LAN 2 connectors.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of IP-OUT2 video output.
			BT709: Sets the color output format to BT709.
			BT2020: Sets the color output format to BT2020.
	SOURCE	CAMERA	Selects the signal source to output.

SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<output format="" ip=""></output>	IP-OUT3		Sets the output for the LAN 1 and LAN 2 connectors.
S11	MONITOR	С, <u>М</u>	Sets whether to add characters to the output signal.
Displayed only when HKCU-SFP50 is installed.			C: Characters are not added. M: Characters are added.
			M. Characters are added.
			Notes
			Fixed to M when SOURCE is set to CAMERA.
			• Fixed to C when SOURCE is set to HD TRUNK.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the LAN 1 and LAN 2 connectors.
	OETF	SDR	Sets the gamma curve of the video output.
	COLOR	<u>BT709</u>	Selects the color space of IP-OUT3 video output. BT709: Sets the color output format to BT709.
	SOURCE	CAMERA, HD TRUNK	Selects the signal source to output.
	IP-OUT4	,	Sets the output for the LAN 1 and LAN 2 connectors.
			Notes
			 IP-OUT4 is a setting for dedicated 4K output.
			 Output is supported on the HDCU3500 when the HZCU-UHD35 option is enabled.
	MONITOR	С	Sets whether to add characters to the output signal.
			C: Characters are not added.
			Note
			This is fixed to C.
	FORMAT	FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.001(525): see page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): see page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): see page 58 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): see page 62	Sets the output signal format of the LAN 1 and LAN 2 connectors.
	OETF	<u>SDR</u> , HDR OETF	Sets the gamma curve of the video output.
	COLOR	BT709, BT2020	Selects the color space of IP-OUT4 video output.
	SOURCE	CAMERA	Selects the signal source to output.

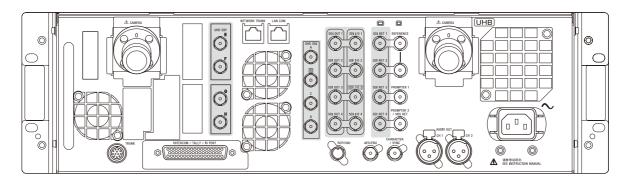
SYSTEM CONFIG			
Page name Page No.	Item	Set value	Description
<return setup=""> S12</return>	RETURN SELECT	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4, SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	Sets the format of the return signal to be input. For details on the selectable RETURN FORMAT options for each SYSTEM (system operating frequency) setting and CAMERA FORMAT (system format) setting in <multi format="">, see the following. FIBER TRANSMIT RATE is HIGH and SYSTEM is</multi>
	2	SDI-RET1, <u>SDI-RET2</u> , SDI-RET3, SDI-RET4, SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	1.001(525): page 54 FIBER TRANSMIT RATE is HIGH and SYSTEM is 1.000(625): page 56 FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.001(525): page 58
	3	SDI-RET1, SDI-RET2, <u>SDI-RET3</u> , SDI-RET4, SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	FIBER TRANSMIT RATE is ULTRA and SYSTEM is 1.000(625): page 62 Notes IP-RET1, IP-RET2, IP-RET3, IP-RET4 can be
	4	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4, SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	 selected on the HDCU5000/5500 when HKCU-SFP50 is installed. IP-RET1, IP-RET2, IP-RET3 can be selected on the HDCU3500 when HKCU-SFP50 is installed. IP-RET4 can be selected when the HZCU-UHD35 option is enabled.
	5	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4, <u>SDI-I/O1</u> , SDI-I/O2, SDI-I/O3, SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	 UHD-SDI G and UHD-SDI H can be selected on the HDCU5000 when HKCU-SDI50 is installed.
	6	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4, SDI-I/O1, <u>SDI-I/O2</u> , SDI-I/O3, SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	-
	7	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4, SDI-I/O1, SDI-I/O2, <u>SDI-I/O3</u> , SDI-I/O4, UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	-
	8	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4, SDI-I/O1, SDI-I/O2, SDI-I/O3, <u>SDI-I/O4</u> , UHD-SDI C, UHD-SDI D, UHD-SDI G, UHD-SDI H, VBS-RET, IP-RET1, IP-RET2, IP-RET3, IP-RET4	-
	FRAME SYNCHRONIZER	<u>OFF</u> , ON	Sets the frame synchronizer function for the return signal.
	VBS ASPECT	SQUEEZE, LETTER BOX, <u>EDGE</u> <u>CROP</u>	Sets the aspect ratio of the VBS input signal.
<return format1=""> S13</return>	SDI-RET 1 2 3	1080/59.94P/3G, 1080/50P/3G 1080/59.94I(PsF) , 50I(PsF), 1080/23.98PsF, 24PsF, 720/59.94P, 50P, 525/59.94I(PsF),	Sets the format of the return signal to be input to the SDI RET connectors. When an SD signal is set (525 or 625), set the aspect ratio of the input signal.
	4	625/50I(PsF)	SQUEEZE, LETTER BOX, EDGE CROP

SYSTEM CONFIG				
Page name Page No.	Item	Set value	Description	
<return format2=""></return>	SDI-I/O			
S14	1	1080/59.94P, 1080/50P,	Sets the format of the return signal to be input to the	
	2	<u>1080/59.94I(PsF)</u> , 50I(PsF), 1080/23.98PsF, 24PsF,	SDI I/O connectors.	
	3	720/59.94P, 50P, 525/59.94I(PsF),	Note	
	4	625/50I(PsF)	"DISABLED" is displayed if $\langle VIDEO /O \rangle \rightarrow$ SDI-I/O 1, SDI-I/O 2, SDI-I/O 3, SDI-I/O 4 is set to SDI-RET.	
<return format3=""></return>	UHD-SDI		Sets the format of the return signal to be input to the	
S15	С	C 3840×2160/59.94P/12G D 3840×2160/29.97P/6G G 3840×2160/23.98P/6G H 3840×2160/50P/12G 3840×2160/25P/6G 3840×2160/25P/6G	UHD SDI connectors.	
Displayed only for	D		Notes	
HDCU5000/5500 or HDCU3500 (with	G			
HZCU-UHD35 installed).	Н		 "DISABLED" is displayed if <video i="" o=""> → UHD-SDI C, UHD-SDI D is set to SDI-RET.</video> UHD-SDI G and UHD-SDI H are displayed only when HKCU-SDI50 is installed on the HDCU5000. 	
<return format="" ip=""></return>	IP-RET		Sets the format of the return signal to be input on the	
S16 Displayed only when HKCU-SFP50 is installed.	1 2 3 4	IP-RET1,2 1080/59.94P, 1080/50P, 1080/59.94I , 1080/50I IP-RET3 1080/59.94I(PsF), 1080/50I(PsF) IP-RET4 3840×2160/59.94P/12G, 3840×2160/50P/12G	- LAN 1 and LAN 2 connectors.	

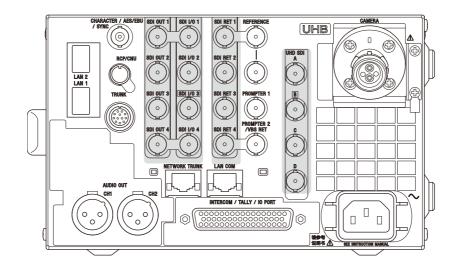
Return Formats and Output Formats

This section lists the return formats and output formats for the connector blocks with shading in the following diagram.

HDCU5000



HDCU5500/3500



Return format (when FIBER TRANSMIT RATE is set to HIGH and SYSTEM is set to 1.001(525))

Note

UHD-SDI A and UHD-SDI B are dedicated output connectors, and a return format cannot be configured.

CAMERA FORMAT	SYSTEM CONFIG → <return format3=""></return>	SYSTEM CONFIG → <return format1=""></return>	SYSTEM CONFIG → <return format2=""></return>	SYSTEM CONFIG → <return format="" ip=""></return>
	UHD-SDI C, UHD-SDI D	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-RET1, IP-RET2, IP-RET3, IP-RET4
UHD/59.94P (4K/HDR)	3840×2160/59.94P/12G	1080/59.94P/3G 1080/59.94I(PsF) 720/59.94P ^{*1} 525/59.94I(PsF)	1080/59.94P/3G 1080/59.94I(PsF) 720/59.94P ^{*1} 525/59.94I(PsF)	3840×2160/59.94P/12G (IP-RET4 only) 1080/59.94P/3G (IP-RET1 IP-RET2 only) 1080/59.94I (IP-RET1, IP-RET2, IP-RET3 only)
1080/59.94P (4K/HDR)	3840×2160/59.94P/12G	1080/59.94P/3G 1080/59.94I(PsF) 720/59.94P ^{*1} 525/59.94I(PsF)	1080/59.94P/3G 1080/59.94I(PsF) 720/59.94P ^{*1} 525/59.94I(PsF)	3840×2160/59.94P/12G (IP-RET4 only) 1080/59.94P/3G (IP-RET1, IP-RET2 only) 1080/59.94I (IP-RET1, IP-RET2, IP-RET3 only)
1080/59.94P	-	1080/59.94P/3G 1080/59.94I(PsF) 720/59.94P ^{*1} 525/59.94I(PsF)	1080/59.94P/3G 1080/59.94I(PsF) 720/59.94P ^{*1} 525/59.94I(PsF)	1080/59.94P/3G (IP-RET1, IP-RET2 only) 1080/59.94I (IP-RET1, IP-RET2, IP-RET3 only)
1080/59.941	-	1080/59.941(PsF) 525/59.941(PsF)	1080/59.94I(PsF) 525/59.94I(PsF)	1080/59.94I (IP-RET1, IP-RET2, IP-RET3 only)
1080/29.97PsF	-	1080/59.94I(PsF) 525/59.94I(PsF)	1080/59.94I(PsF) 525/59.94I(PsF)	-
1080/23.98PsF	-	1080/59.94I(PsF) 1080/23.98PsF 525/59.94I(PsF)	1080/59.94I(PsF) 1080/23.98PsF 525/59.94I(PsF)	-
20/59.94P		720/59.94P 525/59.94I(PsF)	720/59.94P 525/59.94I(PsF)	-
1080/ 59.94I(RGB444)	_	1080/59.94I(PsF)/RGB444/3G 1080/59.94I(PsF) 525/59.94I(PsF)	1080/59.94I(PsF)/RGB444/3G 1080/59.94I(PsF) 525/59.94I(PsF)	1080/59.94I (IP-RET1, IP-RET2, IP-RET3 only)
1080/ 29.97PsF(RGB444)	-	1080/59.94I(PsF)/RGB444/3G 1080/59.94I(PsF) 525/59.94I(PsF)	1080/59.94I(PsF)/RGB444/3G 1080/59.94I(PsF) 525/59.94I(PsF)	-
1080/ 23.98PsF(RGB444)	-	1080/23.98PsF/RGB444/3G 1080/59.94I(PsF) 1080/23.98PsF 525/59.94I(PsF)	1080/23.98PsF/RGB444/3G 1080/59.94I(PsF) 1080/23.98PsF 525/59.94I(PsF)	_
1080/59.94I(2×)	-	1080/59.94I(PsF) 525/59.94I(PsF)	1080/59.94I(PsF) 525/59.94I(PsF)	-
720/59.94P(2×)	-	720/59.94P 525/59.94I(PsF)	720/59.94P 525/59.94I(PsF)	-

*1 720 input can be selected when CCU VIDEO CONVERT is set to ENABLE.

Return format (when FIBER TRANSMIT RATE is set to HIGH and SYSTEM is set to 1.000(625))

Note

UHD-SDI A and UHD-SDI B are dedicated output connectors, and a return format cannot be configured.

CAMERA FORMAT	SYSTEM CONFIG → <return format3=""></return>	SYSTEM CONFIG → <return format1=""></return>	SYSTEM CONFIG → <return format2=""></return>	SYSTEM CONFIG → <return format="" ip=""></return>
	UHD-SDI C, UHD-SDI D	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-RET1, IP-RET2, IP-RET3, IP-RET4
UHD/50P (4K/HDR)	3840×2160/50P/12G	1080/50P/3G 1080/50I(PsF) 720/50P ^{*1} 625/50I(PsF)	1080/50P/3G 1080/50I(PsF) 720/50P ^{*1} 625/50I(PsF)	3840×2160/50P/12G (IP-RET4 only) 1080/50P/3G (IP-RET1, IP-RET2 only) 1080/50I (IP-RET1, IP-RET2, IP-RET3 only)
1080/50P (4K/HDR)	3840×2160/50P/12G	1080/50P/3G 1080/50I(PsF) 720/50P ^{*1} 625/50I(PsF)	1080/50P/3G 1080/50I(PsF) 720/50P ^{*1} 625/50I(PsF)	3840×2160/50P/12G (IP-RET4 only) 1080/50P/3G (IP-RET1, IP-RET2 only) 1080/50I (IP-RET1, IP-RET2, IP-RET3 only)
1080/50P	-	1080/50P/3G 1080/50I(PsF) 720/50P ^{*1} 625/50I(PsF)	1080/50P/3G 1080/50I(PsF) 720/50P ^{*1} 625/50I(PsF)	1080/50P/3G (IP-RET1, IP-RET2 only) 1080/50I (IP-RET1, IP-RET2, IP-RET3 only)
1080/501	-	1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF) 625/50I(PsF)	1080/50I (IP-RET1, IP-RET2, IP-RET3 only)
1080/25PsF	-	1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF) 625/50I(PsF)	-
1080/24PsF	-	1080/501(PsF) 1080/24PsF 625/501(PsF)	1080/50I(PsF) 1080/24PsF 625/50I(PsF)	-
720/50P	-	720/50P 625/501(PsF)	720/50P 625/50I(PsF)	-
1080/50I(RGB444)	-	1080/501(PsF)/RGB444/3G 1080/501(PsF) 625/501(PsF)	1080/50I(PsF)/RGB444/3G 1080/50I(PsF) 625/50I(PsF)	1080/50I (IP-RET1, IP-RET2, IP-RET3 only)
1080/ 25PsF(RGB444)	-	1080/501(PsF)/RGB444/3G 1080/501(PsF) 625/501(PsF)	1080/50I(PsF)/RGB444/3G 1080/50I(PsF) 625/50I(PsF)	-
1080/ 24PsF(RGB444)	-	1080/24PsF/RGB444/3G 1080/50I(PsF) 1080/24PsF 625/50I(PsF)	1080/24PsF/RGB444/3G 1080/50I(PsF) 1080/24PsF 625/50I(PsF)	-
1080/50I(2×)	-	1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF) 625/50I(PsF)	_
720/50P(2×)	-	720/50P 625/50I(PsF)	720/50P 625/50I(PsF)	-

*1 720 input can be selected when CCU VIDEO CONVERT is set to ENABLE.

Return format (when FIBER TRANSMIT RATE is set to ULTRA and SYSTEM is set to 1.001(525))

Note

UHD-SDI A and UHD-SDI B are dedicated output connectors, and a return format cannot be configured.

CAMERA FORMAT	SYSTEM CONFIG → <return format3=""></return>	SYSTEM CONFIG → <return format1=""></return>	SYSTEM CONFIG → <return format2=""></return>	SYSTEM CONFIG → <return format="" ip=""></return>
	UHD-SDI C, UHD-SDI D, UHD-SDI G ^{*1} , UHD-SDI H ^{*1}	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-RET1, IP-RET2, IP-RET3, IP-RET4
3840×2160/ 59.94P(2×)	3840×2160/59.94P/12G	1080/59.94P/3G 1080/59.94I(PsF)	1080/59.94P/3G 1080/59.94I(PsF)	3840×2160/59.94P/12G (IP-RET4 only)
(HDR/SDR) 3840×2160/		720/59.94P ^{*2}	720/59.94P ^{*2}	1080/59.94P/3G (IP-RET1, IP-RET2 only)
59.94P (HDR/SDR)		525/59.94I(PsF)	525/59.94I(PsF)	1080/59.94I (IP-RET1, IP-RET2, IP-RET3 only)
3840×2160/	3840×2160/29.97P/6G	1080/59.94I(PsF)	1080/59.94I(PsF)	-
29.97P (HDR/SDR)		525/59.94I(PsF)	525/59.94I(PsF)	
3840×2160/	3840×2160/23.98P/6G	1080/59.94I(PsF)	1080/59.94I(PsF)	-
23.98P		1080/23.98PsF	1080/23.98PsF	
(HDR/SDR)		525/59.94I(PsF)	525/59.94I(PsF)	
1080/59.94P	-	1080/59.94P/3G	1080/59.94P/3G	1080/59.94P/3G (IP-RET1,
(HDR/SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	IP-RET2 only)
		720/59.94P ^{*2}	720/59.94P ^{*2}	1080/59.94I (IP-RET3 only)
		525/59.94I(PsF)	525/59.94I(PsF)	
1080/29.97PsF	-	1080/59.94I(PsF)	1080/59.94I(PsF)	-
(HDR/SDR)		525/59.94I(PsF)	525/59.94I(PsF)	
1080/23.98PsF	-	1080/59.94I(PsF)	1080/59.94I(PsF)	-
(HDR/SDR)		1080/23.98PsF	1080/23.98PsF	
		525/59.94I(PsF)	525/59.94I(PsF)	
1080/	-	1080/59.94I(PsF)/RGB444/3G	1080/59.94I(PsF)/RGB444/3G	•
59.94I(RGB444) (SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	IP-RET2, IP-RET3 only)
(021)		525/59.94I(PsF)	525/59.94I(PsF)	
1080/	-	1080/59.94I(PsF)/RGB444/3G	1080/59.94I(PsF)/RGB444/3G	-
29.97PsF(RGB444) (SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
(0011)		525/59.94I(PsF)	525/59.94I(PsF)	
1080/	-	1080/23.98PsF/RGB444/3G	1080/23.98PsF/RGB444/3G	-
23.98PsF(RGB444) (SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
(0011)		1080/23.98PsF	1080/23.98PsF	
		525/59.94I(PsF)	525/59.94I(PsF)	
1080/59.94P(2×)	-	1080/59.94P/3G	1080/59.94P/3G	-
(HDR/SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
		720/59.94P ^{*3}	720/59.94P ^{*3}	
		525/59.94I(PsF)	525/59.94I(PsF)	
1080/59.94P(3×)	-	1080/59.94P/3G	1080/59.94P/3G	-
(HDR/SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
		720/59.94P ^{*3}	720/59.94P ^{*3}	
		525/59.94I(PsF)	525/59.94I(PsF)	
1080/59.94P(4×)	-	1080/59.94P/3G	1080/59.94P/3G	-
(HDR/SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
		720/59.94P ^{*3}	720/59.94P ^{*3}	
		525/59.94I(PsF)	525/59.94I(PsF)	

CAMERA FORMAT	SYSTEM CONFIG → <return format3=""></return>	SYSTEM CONFIG → <return format1=""></return>	SYSTEM CONFIG → <return format2=""></return>	SYSTEM CONFIG → <return format="" ip=""></return>
	UHD-SDI C, UHD-SDI D, UHD-SDI G ^{*1} , UHD-SDI H ^{*1}	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-RET1, IP-RET2, IP-RET3, IP-RET4
1080/59.94P(6×)	-	1080/59.94P/3G	1080/59.94P/3G	-
(HDR/SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
		720/59.94P ^{*3}	720/59.94P ^{*3}	
		525/59.94I(PsF)	525/59.94I(PsF)	
1080/59.94P(8×)	-	1080/59.94P/3G	1080/59.94P/3G	-
(HDR/SDR)		1080/59.94I(PsF)	1080/59.94I(PsF)	
		720/59.94P ^{*3}	720/59.94P ^{*3}	
		525/59.94I(PsF)	525/59.94I(PsF)	

*2 720 input can be selected when CCU VIDEO CONVERT is set to ENABLE.

*3 720 input can be selected when both CCU VIDEO CONVERT is set to ENABLE and the HDR mode of the connected camera is set to OFF.

Return format (when FIBER TRANSMIT RATE is set to ULTRA and SYSTEM is set to 1.000(625))

Note

UHD-SDI A and UHD-SDI B are dedicated output connectors, and a return format cannot be configured.

CAMERA FORMAT	SYSTEM CONFIG → <return format3=""></return>	SYSTEM CONFIG → <return format1=""></return>	SYSTEM CONFIG \rightarrow <return format2=""></return>	SYSTEM CONFIG → <return format="" ip=""></return>
	UHD-SDI C, UHD-SDI D, UHD-SDI G ^{*1} , UHD-SDI H ^{*1}	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-RET1, IP-RET2, IP-RET3, IP-RET4
3840×2160/ 50P(2×) (HDR/SDR) 3840×2160/50P (HDR/SDR)	3840×2160/50P/12G	1080/50P/3G 1080/50I(PsF) 720/50P ^{*2} 625/50I(PsF)	1080/50P/3G 1080/50I(PsF) 720/50P ^{*2} 625/50I(PsF)	3840×2160/50P/12G (IP-RET4 only) 1080/50P/3G (IP-RET1, IP-RET2 only) 1080/50I (IP-RET1,
3840×2160/25P (HDR/SDR)	3840×2160/25P/6G	1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF) 625/50I(PsF)	IP-RET2, IP-RET3 only)
3840×2160/24P (HDR/SDR)	3840×2160/24P/6G	1080/50I(PsF) 1080/24PsF 625/50I(PsF)	1080/50I(PsF) 1080/24PsF 625/50I(PsF)	-
1080/50P (HDR/SDR)	-	1080/50P/3G 1080/50I(PsF) 720/50P ^{*2} 625/50I(PsF)	1080/50P/3G 1080/50I(PsF) 720/50P ^{*2} 625/50I(PsF)	1080/50P/3G (IP-RET1, IP-RET2 only) 1080/50I (IP-RET3 only)
1080/25PsF (HDR/SDR)	-	1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF) 625/50I(PsF)	-
1080/24PsF (HDR/SDR)	-	1080/50I(PsF) 1080/24PsF 625/50I(PsF)	1080/50I(PsF) 1080/24PsF 625/50I(PsF)	-
1080/50I(RGB444) SDR)	-	1080/50I(PsF)/RGB444/3G 1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF)/RGB444/3G 1080/50I(PsF) 625/50I(PsF)	1080/50I (IP-RET1, IP-RET2, IP-RET3 only)
1080/ 25PsF(RGB444) (SDR)	-	1080/50I(PsF)/RGB444/3G 1080/50I(PsF) 625/50I(PsF)	1080/50I(PsF)/RGB444/3G 1080/50I(PsF) 625/50I(PsF)	-
1080/ 24PsF(RGB444) (SDR)	-	1080/24PsF/RGB444/3G 1080/50I(PsF) 1080/24PsF 625/50I(PsF)	1080/24PsF/RGB444/3G 1080/50I(PsF) 1080/24PsF 625/50I(PsF)	-
1080/50P(2×) (HDR/SDR)	-	1080/50P/3G 1080/50I(PsF) 720/50P ^{*3} 625/50I(PsF)	1080/50P/3G 1080/50I(PsF) 720/50P ^{*3} 625/50I(PsF)	-

SYSTEM CONFIG → <return format3=""></return>	SYSTEM CONFIG → <return format1=""></return>	SYSTEM CONFIG → <return format2=""></return>	SYSTEM CONFIG → <return format="" ip=""></return>
UHD-SDI C, UHD-SDI D, UHD-SDI G ^{*1} , UHD-SDI H ^{*1}	SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-RET1, IP-RET2, IP-RET3, IP-RET4
-	1080/50P/3G	1080/50P/3G	-
	1080/50I(PsF)	1080/50I(PsF)	
	720/50P ^{*3}	720/50P ^{*3}	
	625/50I(PsF)	625/50I(PsF)	
-	1080/50P/3G	1080/50P/3G	-
	1080/50I(PsF)	1080/50I(PsF)	
	720/50P ^{*3}	720/50P ^{*3}	
	625/50I(PsF)	625/50I(PsF)	
-	1080/50P/3G	1080/50P/3G	-
	1080/50I(PsF)	1080/50I(PsF)	
	720/50P ^{*3}	720/50P ^{*3}	
	625/50I(PsF)	625/50I(PsF)	
-	1080/50P/3G	1080/50P/3G	-
	1080/50I(PsF)	1080/50I(PsF)	
	720/50P ^{*3}	720/50P ^{*3}	
	625/50I(PsF)	625/50I(PsF)	
	<return format3=""> UHD-SDI C, UHD-SDI D,</return>	<return format3=""> <return format1=""> UHD-SDI C, UHD-SDI D, UHD-SDI G'1, UHD-SDI H'1 SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4 - 1080/50P/3G 1080/50I(PsF) 720/50P *3 625/50I(PsF) 625/50I(PsF) - 1080/50P/3G 1080/50P/3G 1080/50P/3G 1080/50P/3G 1080/50I(PsF) - 1080/50P/3G 1080/50I(PsF) 625/50I(PsF) - 1080/50P/3G 1080/50P/3G 1080/50I(PsF) - 1080/50P/3G 1080/50I(PsF) 720/50P *3 625/50I(PsF) 625/50I(PsF) - 1080/50I(PsF) 720/50P *3 625/50I(PsF) - 1080/50I(PsF) 720/50P *3 625/50I(PsF) - 1080/50I(PsF) 720/50P *3 625/50I(PsF) - 1080/50P/3G 1080/50I(PsF) 720/50P *3 625/50I(PsF) 720/50P *3</return></return>	<return format3=""> <return format1=""> <return format2=""> UHD-SDI C, UHD-SDI D, UHD-SDI G¹¹, UHD-SDI H¹¹ SDI-RET1, SDI-RET2, SDI-RET3, SDI-RET4 SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4 - 1080/50P/3G 1080/50P/3G 1080/50P/3G - 1080/50I(PsF) 1080/50I(PsF) 1080/50I(PsF) - 1080/50I(PsF) 1080/50I(PsF) 625/50I(PsF) - 1080/50P/3G 1080/50P/3G 1080/50I(PsF) - 1080/50P/3G 1080/50I(PsF) 1080/50I(PsF) - 1080/50I(PsF) 1080/50I(PsF) 1080/50I(PsF) - 1080/50I(PsF) 1080/50I(PsF) 625/50I(PsF) - 1080/50P/3G 1080/50I(PsF) 625/50I(PsF) - 1080/50P/3G 1080/50I(PsF) 625/50I(PsF) - 1080/50I(PsF) 1080/50I(PsF) 1080/50I(PsF) - 1080/50I(PsF) 625/50I(Ps F) 625/50I(Ps F) - 1080/50P/3G 1080/50P/3G 1080/50I(Ps F) - 1080/50P/3G 1080/50I(Ps F) 625/50I(Ps F) - 1080/</return></return></return>

*2 720 input can be selected when CCU VIDEO CONVERT is set to ENABLE.

*3 720 input can be selected when both CCU VIDEO CONVERT is set to ENABLE and the HDR mode of the connected camera is set to OFF.

Formats settable for UHD SDI, SDI OUT, SDI I/O, and IP OUT connectors (when FIBER TRANSMIT RATE is set to HIGH and SYSTEM is set to 1.001(525))

Note

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>UHD/59.94P</u> (<u>4K/HDR)</u> or	<u>3840×2160/59.94P/12G</u> <u>3840×2160/59.94P/SQD/</u> 3G-A	<for sdi-out1,="" sdi-out2=""> 3840×2160/59.94P/SQD/ 3G-A</for>	<for i="" o1,="" o2="" sdi=""> <u>3840×2160/59.94P/SQD/</u> 3G-A</for>	<for ip-out1,="" ip-out2=""> <u>1080/59.94P/3G-A</u> 1080/59.94P/3G-A</for>
<u>1080/59.94P</u> (4K/HDR)	<u>3840×2160/59.94P/SQD/</u> <u>3G-B</u>	<u>3840×2160/59.94P/SQD/</u> <u>3G-B</u>	<u>3840×2160/59.94P/SQD/</u> <u>3G-B</u>	1080/59.94I
	3840×2160/59.94P/2SI/3G-A 3840×2160/59.94P/2SI/3G-B 1080/59.94P/3G-A 1080/59.94P/3G-B			<for ip-out3=""> 1080/59.941</for>
	1080/59.941 Notes	<u>1080/59.94I</u> 720/59.94P ^{*3} 525/59.94I	<u>1080/59.94I</u> 720/59.94P ^{*3} 525/59.94I	<for ip-out4=""> 3840×2160/59.94P/12G</for>
	HZCU-UHD35 is required for 4K output.	Note	Note	
	The UHD-SDI B, UHD-SDI C, UHD-SDI D, UHD-SDI E, UHD-SDI F, UHD-SDI G, and UHD-SDI H	HZCU-UHD35 is required for 4K output. <for sdi-out3,="" sdi-out4=""></for>	The format setting is linked to the SDI-OUT1 settings when SDI-OUT1 is set for 4K output.	
	settings are linked to the UHD SDI A setting.	1080/59.94P/3G-A 1080/59.94P/3G-B 1080/59.94P 720/59.94P *3 525/59.94I	<for i="" o3,="" o4="" sdi=""> <u>1080/59.94P/3G-A</u> <u>1080/59.94P/3G-B</u> <u>1080/59.94I</u> 720/59.94P ^{*3} 525/59.94I</for>	
1080/59.94P	1080/59.94P/3G-A 1080/59.94P/3G-B 1080/59.94I	1080/59.94P/3G-A 1080/59.94P/3G-B 1080/59.94I 720/59.94P ^{*3} 525/59.94i	1080/59.94P/3G-A 1080/59.94P/3G-B 1080/59.94I 720/59.94P ^{*3} 525/59.94I	1080/59.94P/3G-A (IP-OUT1, IP-OUT2 only) 1080/59.94I (IP-OUT1, IP-OUT2, IP-OUT3 only)
1080/59.941	1080/59.941	1080/59.94l 525/59.94l	1080/59.941 525/59.941	1080/59.94I (IP-OUT1, IP-OUT2, IP-OUT3 only)
1080/29.97PsF	1080/29.97PsF	1080/29.97PsF 525/29.97PsF	1080/29.97PsF 525/29.97PsF	-
1080/23.98PsF	1080/23.98PsF	1080/23.98PsF 1080/59.94I 525/59.94I	1080/23.98PsF 1080/59.94I 525/59.94I	-
720/59.94P	720/59.94P	720/59.94P 525/59.94I	720/59.94P 525/59.94I	-
1080/ 59.94I(RGB444)	1080/59.94I(RGB444)/3G-B 1080/59.94I	1080/59.94I(RGB444)/3G-B 1080/59.94I 525/59.94I	1080/59.94I(RGB444)/3G-B 1080/59.94I 525/59.94I	1080/59.941

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	$\begin{array}{l} < & \text{OUTPUT FORMAT3>:} \\ & \text{UHD-SDI A, UHD-SDI B,} \\ & \text{UHD-SDI C, UHD-SDI D} \\ & \text{OUTPUT FORMAT4>:} \\ & \text{UHD-SDI E}^{+1}, \text{UHD-SDI F}^{+1}, \\ & \text{UHD-SDI G}^{+1}, \text{UHD-SDI H}^{+1} \end{array}$	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
1080/ 29.97PsF(RGB444)	1080/29.97PsF(RGB444)/ 3G-B	1080/29.97PsF(RGB444)/ 3G-B	1080/29.97PsF(RGB444)/ 3G-B	-
	1080/29.97PsF	1080/29.97PsF	1080/29.97PsF	
		525/29.97PsF	525/29.97PsF	
1080/ 23.98PsF(RGB444)	1080/23.98PsF(RGB444)/ 3G-B	1080/23.98PsF(RGB444)/ 3G-B	1080/23.98PsF(RGB444)/ 3G-B	-
	1080/23.98PsF	1080/23.98PsF	1080/23.98PsF	
		1080/59.941	1080/59.941	
		525/59.941	525/59.941	
1080/59.94I(2×)	1080/59.94I(2×)/3G-B/	<for sdi-out1,="" sdi-out3=""></for>	<for i="" o1,="" o3="" sdi=""></for>	-
	Link1&Link2	1080/59.94I(2×)/Link1	1080/59.94I(2×)/Link1	
	1080/59.941	1080/59.94I(2×)/3G-B/ Link1&Link2	1080/59.94I(2×)/3G-B/ Link1&Link2	
		1080/59.941	1080/59.941	
		525/59.941	525/59.941	
		<for sdi-out2,="" sdi-out4=""></for>	<for i="" o2,="" o4="" sdi=""></for>	
		1080/59.94I(2×)/Link2	1080/59.94I(2×)/Link2	
		1080/59.94I(2×)/3G-B/ Link1&Link2	1080/59.94I(2×)/3G-B/ Link1&Link2	
		1080/59.94l	1080/59.941	
		525/59.941	525/59.941	
720/59.94P(2×)	720/59.94P(2×)/3G-B/ Link1&Link2	<for sdi-out1,="" sdi-out3=""> 720/59.94P(2x)/Link1</for>	<for i="" o1,="" o3="" sdi=""> 720/59.94P(2×)/Link1</for>	-
	720/59.94P	720/59.94P(2×)/3G-B/ Link1&Link2	720/59.94P(2×)/3G-B/ Link1&Link2	
		720/59.94P	720/59.94P	
		525/59.941	525/59.941	
		<for sdi-out2,="" sdi-out4=""></for>	<for i="" o2,="" o4="" sdi=""></for>	
		720/59.94P(2×)/Link2	720/59.94P(2×)/Link2	
		720/59.94P(2×)/3G-B/ Link1&Link2	720/59.94P(2×)/3G-B/ Link1&Link2	
		720/59.94P	720/59.94P	
		525/59.941	525/59.941	

*2 Configurable only when the HKCU-SFP50 is installed.

*3 720 output can be selected when CCU VIDEO CONVERT is set to ENABLE.

Formats settable for UHD SDI, SDI OUT, SDI I/O, and IP OUT connectors (when FIBER TRANSMIT RATE is set to HIGH and SYSTEM is set to 1.000(625))

Note

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<0UTPUT FORMAT3>: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <0UTPUT FORMAT4>: UHD-SDI E ^{*1} , UHD-SDI F ^{*1} , UHD-SDI G ^{*1} , UHD-SDI H ^{*1}	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
UHD/50P	3840×2160/50P/12G	<for sdi-out1,="" sdi-out2=""></for>	<for i="" o1,="" o2="" sdi=""></for>	<for ip-out1,="" ip-out2=""></for>
<u>(4K/HDR)</u>	<u>3840×2160/50P/SQD/3G-A</u>	<u>3840×2160/50P/SQD/3G-A</u>	3840×2160/50P/SQD/	1080/50P/3G-A
or	<u>3840×2160/50P/SQD/3G-B</u>	<u>3840×2160/50P/SQD/3G-B</u>	<u>3G-A</u>	<u>1080/50P/3G-A</u>
<u>1080/50P</u> (4K/HDR)	<u>3840×2160/50P/2SI/3G-A</u> <u>3840×2160/50P/2SI/3G-B</u>	<u>3840×2160/50P/2SI/3G-A</u> <u>3840×2160/50P/2SI/3G-B</u>	<u>3840×2160/50P/SQD/</u> <u>3G-B</u>	1080/501
	1080/50P/3G-A	1080/50P/3G-A	<u>3840×2160/50P/2SI/3G-A</u>	<for ip-out3=""></for>
	<u>1080/50P/3G-B</u>	1080/50P/3G-B	<u>3840×2160/50P/2SI/3G-B</u> <u>1080/50P/3G-A</u>	1080/501
	<u>1080/501</u>	<u>1080/501</u> 720/50P ^{*3}	<u>1080/50P/3G-B</u>	<for ip-out4=""></for>
	Notes	625/50I	<u>1080/501</u>	3840×2160/50P/12G
	HZCU-UHD35 is required		720/50P ^{*3}	
	for 4K output.	Note	625/501	
	The UHD-SDI B, UHD-SDI C, UHD-SDI D, UHD-SDI	HZCU-UHD35 is required for 4K output.	Note	
	E, UHD-SDI F, UHD-SDI G, and UHD-SDI H settings are linked to the UHD SDI A setting.	<for sdi-out3,="" sdi-out4=""></for>	The format setting is linked to the SDI-OUT1 settings when SDI-OUT1 is set for 4K	
	ond odi A seang.	<u>1080/50P/3G-A</u> <u>1080/50P/3G-B</u>	output.	
		<u>1080/501</u>	<for i="" o3,="" o4="" sdi=""></for>	
		720/50P ^{*3}	1080/50P/3G-A	
		625/501	<u>1080/50P/3G-B</u>	
			<u>1080/501</u>	
			720/50P *3	
			625/501	
1080/50P	1080/50P/3G-A	1080/50P/3G-A	1080/50P/3G-A	1080/50P/3G-A (IP-OUT1, IP-OUT2 only)
	1080/50P/3G-B 1080/50I	1080/50P/3G-B 1080/50I	1080/50P/3G-B 1080/50I	1080/50I (IP-OUT1,
	1060/501	720/50P ^{*3}	720/50P ^{*3}	IP-OUT2, IP-OUT3 only)
		625/50i	625/501	
1080/501	1080/501	1080/501	1080/501	1080/50I (IP-OUT1,
		625/501	625/501	IP-OUT2, IP-OUT3 only)
1080/25PsF	1080/25PsF	1080/25PsF	1080/25PsF	-
		625/25PsF	625/25PsF	
1080/24PsF	1080/24PsF	1080/24PsF	1080/24PsF	-
		1080/501	1080/501	
		625/501	625/501	
720/50P	720/50P	720/50P 625/50I	720/50P 625/50I	-
1080/50I(RGB444)	1080/50I(RGB444)/3G-B 1080/50I	1080/50I(RGB444)/3G-B 1080/50I	1080/50I(RGB444)/3G-B 1080/50I	1080/501

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
1080/	1080/25PsF(RGB444)/3G-B	1080/25PsF(RGB444)/3G-B	1080/25PsF(RGB444)/3G-B	-
25PsF(RGB444)	1080/25PsF	1080/25PsF	1080/25PsF	
		625/25PsF	625/25PsF	
1080/	1080/24PsF(RGB444)/3G-B	1080/24PsF(RGB444)/3G-B	1080/24PsF(RGB444)/3G-B	_
24PsF(RGB444)	1080/24PsF	1080/24PsF	1080/24PsF	
		1080/501	1080/501	
		625/50I	625/501	
1080/50I(2×)	1080/50I(2×)/3G-B/ Link1&Link2 1080/50I	<for sdi-out1,="" sdi-out3=""></for>	<for i="" o1,="" o3="" sdi=""></for>	-
		1080/50I(2×)/Link1	1080/50I(2×)/Link1	
		1080/50I(2×)/3G-B/ Link1&Link2	1080/50I(2×)/3G-B/ Link1&Link2	
		1080/501	1080/501	
		625/501	625/501	
		<for sdi-out2,="" sdi-out4=""></for>	<for i="" o2,="" o4="" sdi=""></for>	
		1080/50I(2×)/Link2	1080/50I(2×)/Link2	
		1080/50I(2×)/3G-B/ Link1&Link2	1080/50I(2×)/3G-B/ Link1&Link2	
		1080/501	1080/501	
		625/501	625/501	
720/50P(2×)	720/50P(2×)/3G-B/	<for sdi-out1,="" sdi-out3=""></for>	<for i="" o1,="" o3="" sdi=""></for>	-
	Link1&Link2	720/50P(2×)/Link1	720/50P(2×)/Link1	
	720/50P	720/50P(2×)/3G-B/ Link1&Link2	720/50P(2×)/3G-B/ Link1&Link2	
		720/50P	720/50P	
		625/501	625/501	
		<for sdi-out2,="" sdi-out4=""></for>	<for i="" o2,="" o4="" sdi=""></for>	
		720/50P(2×)/Link2	720/50P(2×)/Link2	
		720/50P(2×)/3G-B/ Link1&Link2	720/50P(2×)/3G-B/ Link1&Link2	
		720/50P	720/50P	
		625/501	625/501	

*2 Configurable only when the HKCU-SFP50 is installed.

*3 720 output can be selected when CCU VIDEO CONVERT is set to ENABLE.

Formats settable for UHD SDI, SDI OUT, SDI I/O, and IP OUT connectors (when FIBER TRANSMIT RATE is set to ULTRA and SYSTEM is set to 1.001(525))

Note

CAMERA	SYSTEM CONFIG →	SYSTEM CONFIG →	SYSTEM CONFIG →	SYSTEM CONFIG →
FORMAT	<output format3=""> or</output>	<output format1=""></output>	<output format2=""></output>	<output format="" ip=""></output>
	SYSTEM CONFIG → <output format4=""></output>			
	<pre><output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output></pre>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>3840×2160/</u> 59.94P(2×)	<u>3840×2160/59.94P/12G</u> 3840×2160/59.94P/SQD/	<u>3840×2160/59.94P/SQD/</u> <u>3G-A</u>	<u>3840×2160/59.94P/SQD/</u> <u>3G-A</u>	<u>3840×2160/59.94P/12G</u> (IP-OUT4 only)
<u>(HDR/SDR)</u> <u>3840×2160/</u>	<u>3G-A</u> 3840×2160/59.94P/SQD/	<u>3840×2160/59.94P/SQD/</u> <u>3G-B</u>	<u>3840×2160/59.94P/SQD/</u> <u>3G-B</u>	<u>1080/59.941</u> (IP-OUT1, IP-OUT2, IP-OUT3 only)
<u>59.94P</u> (HDR/SDR)	<u>3G-B</u>	3840×2160/59.94P/2SI/3G-A		<u>1080/59.94P/3G-A</u> (IP-OUT1, IP-OUT2 only)
	<u>3840×2160/59.94P/2SI/3G-A</u> <u>3840×2160/59.94P/2SI/3G-B</u>		<u>3840×2160/59.94P/2SI/3G-B</u> (The 4 formats above for SDI-I/O1, SDI-I/O2 only)	(" COTT, " COTTONIJ)
	Note	<u>1080/59.941</u>	1080/59.941	
	The UHD-SDI B, UHD-SDI C, UHD-SDI D, UHD-SDI E,	<u>1080/59.94P/3G-A</u> 1080/59.94P/3G-B	<u>1080/59.94P/3G-A</u> 1080/59.94P/3G-B	
	UHD-SDI F, UHD-SDI G,	720/59.94P ^{*3}	720/59.94P ^{*3}	
	and UHD-SDI H settings are linked to the UHD SDI A setting.	525/59.941	525/59.941	
		Note	Note	
		The 4K output settings are linked to the SDI-OUT1 settings.	The 4K output settings are linked to the SDI-I/O1 settings.	
<u>3840×2160/</u> 29.97P	<u>3840×2160/29.97P/6G</u> 3840×2160/29.97PsF/SQD/	<u>3840×2160/29.97PsF/SQD/</u> <u>3G-B</u>	<u>3840×2160/29.97PsF/SQD/</u> <u>3G-B</u>	-
(HDR/SDR)	<u>3840×2160/29.97PsF/SQD/</u> <u>3G-B</u> 3840×2160/29.97P/2SI/3G-B	<u>3840×2160/29.97PsF/SQD/</u> <u>1.5G</u>	<u>3840×2160/29.97PsF/SQD/</u> <u>1.5G</u>	
	<u>3840×2160/29.97PsF/SQD/</u> 1.5G	(The 2 formats above for SDI-OUT1, SDI-OUT2 only)	(The 2 formats above for SDI-I/O1, SDI-I/O2 only)	
		<u>1080/29.97PsF</u> 525/29.97PsF	<u>1080/29.97PsF</u> 525/29.97PsF	
		Note	Note	
		The 4K output settings are linked to the SDI-OUT1 settings.	The 4K output settings are linked to the SDI-OUT1 settings.	
<u>3840×2160/</u> 23.98P	<u>3840×2160/23.98P/6G</u> <u>3840×2160/23.98PsF/SQD/</u>	<u>3840×2160/23.98PsF/SQD/</u> <u>3G-B</u>	<u>3840×2160/23.98PsF/SQD/</u> <u>3G-B</u>	-
(HDR/SDR)	<u>3G-B</u> <u>3840×2160/23.98P/2SI/3G-B</u>	<u>3840×2160/23.98PsF/SQD/</u> <u>1.5G</u>	<u>3840×2160/23.98PsF/SQD/</u> <u>1.5G</u>	
	<u>3840×2160/23.98PsF/SQD/</u> <u>1.5G</u>	(The 2 formats above for SDI-OUT1, SDI-OUT2 only)	(The 2 formats above for SDI-I/O1, SDI-I/O2 only)	
		1080/59.941	1080/59.941	
		<u>1080/23.98PsF</u> 525/59.94I	<u>1080/23.98PsF</u> 525/59.94I	
		020/00.071	020/00.071	
		Note	Note	
		The 4K output settings are linked to the SDI-OUT1 settings.	The 4K output settings are linked to the SDI-OUT1 settings.	

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<0UTPUT FORMAT3>: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <0UTPUT FORMAT4>: UHD-SDI E ^{*1} , UHD-SDI F ^{*1} , UHD-SDI G ^{*1} , UHD-SDI H ^{*1}	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
1080/59.94P	<u>1080/59.941</u>	<u>1080/59.94I</u>	1080/59.941	1080/59.94P/3G-A
(HDR/SDR)	1080/59.94P/3G-A	1080/59.94P/3G-A	<u>1080/59.94P/3G-A</u>	(IP-OUT1, IP-OUT2 only)
	<u>1080/59.94P/3G-B</u>	<u>1080/59.94P/3G-B</u> 720/59.94P ^{*3}	<u>1080/59.94P/3G-B</u> 720/59.94P ^{*3}	<u>1080/59.941</u> (IP-OUT1, IP-OUT2, IP-OUT3 only)
		525/59.941	525/59.94l	
<u>1080/29.97PsF</u> (HDR/SDR)	1080/29.97PsF	<u>1080/29.97PsF</u> 525/29.97PsF	<u>1080/29.97PsF</u> 525/29.97PsF	-
1080/23.98PsF	1080/23.98PsF	1080/59.941	1080/59.941	_
(HDR/SDR)		1080/23.98PsF	1080/23.98PsF	
		525/59.941	525/59.94I	
1080/	1080/59.941	1080/59.941	1080/59.941	1080/59.94I (IP-OUT1,
59.94I(RGB444) (SDR)	1080/59.94I(RGB444)/3G-B	1080/59.94I(RGB444)/3G-B	1080/59.94I(RGB444)/3G-B	IP-OUT2, IP-OUT3 only)
		525/59.941	525/59.941	
1080/ 29.97PsF(RGB444)	1080/29.97PsF	1080/29.97PsF	1080/29.97PsF	-
(SDR)	1080/29.97PsF(RGB444)/ 3G-B	1080/29.97PsF(RGB444)/ 3G-B	1080/29.97PsF(RGB444)/ 3G-B	
4000/	1000/00 000 5	525/29.97PsF	525/29.97PsF	
1080/ 23.98PsF(RGB444)	1080/23.98PsF	1080/59.94I 1080/23.98PsF	1080/59.94I	_
(SDR)	1080/23.98PsF(RGB444)/ 3G-B	1080/23.98PsF(RGB444)/	1080/23.98PsF 1080/23.98PsF(RGB444)/	
		3G-B 525/59.94l	3G-B 525/59.94I	
1090/E0 04D(2\)	1090/E0 04P(0x)/2C A			
<u>1080/59.94P(2×)</u> (HDR/SDR)	<u>1080/59.94P(2×)/3G-A</u> <u>1080/59.94P(2×)/3G-B</u>	<u>1080/59.94P(2×)/3G-A</u> 1080/59.94P(2×)/3G-B	<u>1080/59.94P(2×)/3G-A</u> 1080/59.94P(2×)/3G-B	-
	<u>1080/59.94P(2x)/12G</u>	720/59.94P(2×) ^{*4}	720/59.94P(2×) ^{*4}	
	1080/59.94I(2×)	720/59.94P(2×)/3G-B ^{*4}	720/59.94P(2×)/3G-B ^{*4}	
	<u>1080/59.94I(2×)/3G-B</u> 1080/59.94I(2×)/12G	(The 4 formats above for SDI-OUT1, SDI-OUT2 only)	(The 4 formats above for SDI-I/O1, SDI-I/O2 only)	
	720/59.94P(2×) ^{*4}	<u>1080/59.941</u>	<u>1080/59.941</u>	
	720/59.94P(2×)/3G-B *4	1080/59.94P/3G-A	<u>1080/59.94P/3G-A</u>	
	720/59.94P(2×)/12G	1080/59.94P/3G-B	1080/59.94P/3G-B	
	·	720/59.94P ^{*4}	720/59.94P ^{*4}	
		525/59.941	525/59.941	
		Note	Note	
		HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>1080/59.94P(3×)</u> (HDR/SDR)	1080/59.94P(3x)/3G-A 1080/59.94P(3x)/3G-B 1080/59.94P(3x)/12G 1080/59.94I(3x) 1080/59.94I(3x)/12G 720/59.94P(3x) ^{*4} 720/59.94P(3x)/12G	1080/59.94P(3x)/3G-A 1080/59.94P(3x)/3G-B 720/59.94P(3x) ^{*4} (The 3 formats above for SDI-OUT1, SDI-OUT2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	<u>1080/59.94P(3x)/3G-A</u> <u>1080/59.94P(3x)/3G-B</u> 720/59.94P(3x) ^{*4} (The 3 formats above for SDI-I/O1, SDI-I/O2 only) <u>1080/59.94I</u> <u>1080/59.94P/3G-A</u> <u>1080/59.94P/3G-B</u> 720/59.94P ^{*4} 525/59.94I	_
		Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	
<u>1080/59.94P(4x)</u> (HDR/SDR)	1080/59.94P(4×)/3G-A 1080/59.94P(4×)/3G-B 1080/59.94P(4×)/12G 1080/59.94I(4×) 1080/59.94I(4×)/3G-B 1080/59.94I(4×)/12G 720/59.94P(4×)/3G-B ^{*4} 720/59.94P(4×)/12G	1080/59.94P(4x)/3G-A 1080/59.94P(4x)/3G-B 720/59.94P(4x) ^{*4} 720/59.94P(4x)/3G-B ^{*4} (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	1080/59.94P(4×)/3G-A 1080/59.94P(4×)/3G-B 720/59.94P(4×) ^{*4} 720/59.94P(4×)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	_
		Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	
<u>1080/59.94P(6x)</u> (HDR/SDR)	1080/59.94P(6×)/3G-A 1080/59.94P(6×)/3G-B 1080/59.94P(6×)/12G 1080/59.94I(6×) 1080/59.94I(6×)/3G-B 1080/59.94I(6×)/12G 720/59.94P(6×)/3G-B ^{*4} 720/59.94P(6×)/12G	1080/59.94P(6×)/3G-A 1080/59.94P(6×)/3G-B 720/59.94P(6×) ^{*4} 720/59.94P(6×)/3G-B ^{*4} (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	1080/59.94P(6×)/3G-A 1080/59.94P(6×)/3G-B 720/59.94P(6×) ^{*4} 720/59.94P(6×)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	_
		Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>1080/59.94P(8x)</u> (HDR/SDR)	1080/59.94P(8x)/3G-A 1080/59.94P(8x)/3G-B 1080/59.94P(8x)/12G 1080/59.941(8x) 1080/59.941(8x)/3G-B 1080/59.941(8x)/12G 720/59.94P(8x) ^{*4} 720/59.94P(8x)/3G-B ^{*4} 720/59.94P(8x)/12G	1080/59.94P(8x)/3G-A 1080/59.94P(8x)/3G-B 720/59.94P(8x) ^{*4} 720/59.94P(8x)/3G-B ^{*4} (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	1080/59.94P(8×)/3G-A 1080/59.94P(8×)/3G-B 720/59.94P(8×) ^{*4} 720/59.94P(8×)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/59.94I 1080/59.94P/3G-A 1080/59.94P/3G-B 720/59.94P ^{*4} 525/59.94I	_
		Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/59.94) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	

*2 Configurable only when the HKCU-SFP50 is installed.

*3 720 output can be selected when CCU VIDEO CONVERT is set to ENABLE.

*4 720 output can be selected when both CCU VIDEO CONVERT is set to ENABLE and the HDR mode of the connected camera is set to OFF.

Formats settable for UHD SDI, SDI OUT, SDI I/O, and IP OUT connectors (when FIBER TRANSMIT RATE is set to ULTRA and SYSTEM is set to 1.000(625))

Note

FORMAT	SYSTEM CONFIG → <output format3=""> or</output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	SYSTEM CONFIG → <output format4=""></output>			
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>3840×2160/</u>	3840×2160/50P/12G	<u>3840×2160/50P/SQD/3G-A</u>	3840×2160/50P/SQD/3G-A	3840×2160/50P/12G
<u>50P(2×)</u>	3840×2160/50P/SQD/3G-A	<u>3840×2160/50P/SQD/3G-B</u>	3840×2160/50P/SQD/3G-B	(IP-OUT4 only)
(HDR/SDR)	<u>3840×2160/50P/SQD/3G-B</u>	<u>3840×2160/50P/2SI/3G-A</u>	<u>3840×2160/50P/2SI/3G-A</u>	<u>1080/501</u> (IP-OUT1,
<u>3840×2160/50P</u> (HDR/SDR)	<u>3840×2160/50P/2SI/3G-A</u>	<u>3840×2160/50P/2SI/3G-B</u>	<u>3840×2160/50P/2SI/3G-B</u>	IP-OUT2, IP-OUT3 only)
<u></u>	<u>3840×2160/50P/2SI/3G-B</u>	(The 4 formats above for SDI-OUT1, SDI-OUT2 only)	(The 4 formats above for SDI-I/O1, SDI-I/O2 only)	<u>1080/50P/3G-A</u> (IP-OUT1, IP-OUT2 only)
	Note	1080/501	1080/501	
	The UHD-SDI B. UHD-SDI	1080/50P/3G-A	1080/50P/3G-A	
	C, UHD-SDI D, UHD-SDI E,	<u>1080/50P/3G-B</u>	<u>1080/50P/3G-B</u>	
	UHD-SDI F, UHD-SDI G, and UHD-SDI H settings are	720/50P ^{*3}	720/50P ^{*3}	
	linked to the UHD SDI A setting.	625/501	625/501	
	0	Note	Note	
		The 4K output settings are linked to the SDI-OUT1	The 4K output settings are linked to the SDI-I/O1	
		settings.	settings.	
<u>3840×2160/25P</u> (HDR/SDR)	<u>3840×2160/25P/6G</u> <u>3840×2160/25PsF/SQD/</u>	<u>3840×2160/25PsF/SQD/</u> <u>3G-B</u>	<u>3840×2160/25PsF/SQD/</u> <u>3G-B</u>	_
	<u>3G-B</u> <u>3840×2160/25P/2SI/3G-B</u>	<u>3840×2160/25PsF/SQD/</u> <u>1.5G</u>	<u>3840×2160/25PsF/SQD/</u> <u>1.5G</u>	
	<u>3840×2160/25PsF/SQD/</u> <u>1.5G</u>	(The 2 formats above for SDI-OUT1, SDI-OUT2 only)	(The 2 formats above for SDI-I/O1, SDI-I/O2 only)	
		<u>1080/25PsF</u>	<u>1080/25PsF</u>	
		625/25PsF	625/25PsF	
		Note	Note	
		The 4K output settings are linked to the SDI-OUT1 settings.	The 4K output settings are linked to the SDI-OUT1 settings.	
<u>3840×2160/24P</u> (HDR/SDR)	<u>3840×2160/24P/6G</u> <u>3840×2160/24PsF/SQD/</u>	<u>3840×2160/24PsF/SQD/</u> <u>3G-B</u>	<u>3840×2160/24PsF/SQD/</u> <u>3G-B</u>	-
	<u>3G-B</u> <u>3840×2160/24P/2SI/3G-B</u>	<u>3840×2160/24PsF/SQD/</u> <u>1.5G</u>	<u>3840×2160/24PsF/SQD/</u> <u>1.5G</u>	
	<u>3840×2160/24PsF/SQD/</u> <u>1.5G</u>	(The 2 formats above for SDI-OUT1, SDI-OUT2 only)	(The 2 formats above for SDI-I/O1, SDI-I/O2 only)	
		1080/501	1080/501	
		1080/24PsF	1080/24PsF	
		625/501	625/501	
		Note	Note	
		The 4K output settings are linked to the SDI-OUT1 settings.	The 4K output settings are linked to the SDI-OUT1 settings.	

CAMERA FORMAT	SYSTEM CONFIG \rightarrow <output format3=""> or SYSTEM CONFIG \rightarrow <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<0UTPUT FORMAT3>: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <0UTPUT FORMAT4>: UHD-SDI E ⁺¹ , UHD-SDI F ⁺¹ , UHD-SDI G ⁺¹ , UHD-SDI H ⁺¹	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>1080/50P</u> (HDR/SDR)	<u>1080/501</u> <u>1080/50P/3G-A</u> <u>1080/50P/3G-B</u>	<u>1080/501</u> <u>1080/50P/3G-A</u> <u>1080/50P/3G-B</u> 720/50P ^{*3} 625/501	<u>1080/501</u> <u>1080/50P/3G-A</u> <u>1080/50P/3G-B</u> 720/50P ^{*3} 625/501	<u>1080/50P/3G-A</u> (IP-OUT1, IP-OUT2 only) <u>1080/501</u> (IP-OUT1, IP-OUT2, IP-OUT3 only)
<u>1080/25PsF</u> (HDR/SDR)	<u>1080/25PsF</u>	<u>1080/25PsF</u> 625/25PsF	<u>1080/25PsF</u> 625/25PsF	-
<u>1080/24PsF</u> (HDR/SDR)	<u>1080/24PsF</u>	<u>1080/501</u> <u>1080/24PsF</u> 625/50I	<u>1080/50I</u> <u>1080/24PsF</u> 625/50I	-
1080/50I(RGB444) (SDR)	1080/50I 1080/50I(RGB444)/3G-B	1080/50I 1080/50I(RGB444)/3G-B 625/50I	1080/50I 1080/50I(RGB444)/3G-B 625/50I	1080/50I (IP-OUT1, IP-OUT2, IP-OUT3 only)
1080/ 25PsF(RGB444) (SDR)	1080/25PsF 1080/25PsF(RGB444)/3G-B	1080/25PsF 1080/25PsF(RGB444)/3G-B 625/25PsF	1080/25PsF 1080/25PsF(RGB444)/3G-B 625/25PsF	-
1080/ 24PsF(RGB444) (SDR)	1080/24PsF 1080/24PsF(RGB444)/3G-B	1080/50I 1080/24PsF 1080/24PsF(RGB444)/3G-B 625/50I	1080/50I 1080/24PsF 1080/24PsF(RGB444)/3G-B 625/50I	-
<u>1080/50P(2×)</u> (HDR/SDR)	1080/50P(2×)/3G-A 1080/50P(2×)/3G-B 1080/50P(2×)/12G 1080/501(2×) 1080/501(2×)/3G-B 1080/501(2×)/12G 720/50P(2×) ^{*4} 720/50P(2×)/3G-B ^{*4} 720/50P(2×)/12G	1080/50P(2×)/3G-A 1080/50P(2×)/3G-B 720/50P(2×) ^{*4} 720/50P(2×)/3G-B ^{*4} (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/50P 1080/50P/3G-A 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	1080/50P(2x)/3G-A 1080/50P(2x)/3G-B 720/50P(2x) ^{*4} 720/50P(2x)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/50P 1080/50P/3G-A 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	_

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>1080/50P(3x)</u> (HDR/SDR)	1080/50P(3×)/3G-A 1080/50P(3×)/3G-B 1080/50P(3×)/12G 1080/50I(3×) 1080/50I(3×)/12G 720/50P(3×) ^{*4} 720/50P(3×)/12G	1080/50P(3x)/3G-A 1080/50P(3x)/3G-B 720/50P(3x) *4 (The 3 formats above for SDI-OUT1, SDI-OUT2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P *4 625/50I Note	1080/50P(3×)/3G-A 1080/50P(3×)/3G-B 720/50P(3×) ^{*4} (The 3 formats above for SDI-I/O1, SDI-I/O2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I Note	_
		HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	
1080/50P(4x). (HDR/SDR)	1080/50P(4×)/3G-A 1080/50P(4×)/3G-B 1080/50P(4×)/12G 1080/50I(4×) 1080/50I(4×)/3G-B 1080/50I(4×)/12G 720/50P(4×)/3G-B ^{*4} 720/50P(4×)/12G	1080/50P(4×)/3G-A 1080/50P(4×)/3G-B 720/50P(4×) ^{*4} 720/50P(4×)/3G-B ^{*4} (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I	1080/50P(4×)/3G-A 1080/50P(4×)/3G-B 720/50P(4×) ^{*4} 720/50P(4×)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I	_
		Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	
<u>1080/50P(6x)</u> (HDR/SDR)	1080/50P(6×)/3G-A 1080/50P(6×)/3G-B 1080/50P(6×)/12G 1080/50I(6×) 1080/50I(6×)/3G-B 1080/50I(6×)/12G 720/50P(6×)/3G-B ^{*4} 720/50P(6×)/12G	1080/50P(6×)/3G-A 1080/50P(6×)/3G-B 720/50P(6×)/3G-B 720/50P(6×)/3G-B *4 (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P *4 625/50I	1080/50P(6x)/3G-A 1080/50P(6x)/3G-B 720/50P(6x) ^{*4} 720/50P(6x)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I	-
		Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	

CAMERA FORMAT	SYSTEM CONFIG → <output format3=""> or SYSTEM CONFIG → <output format4=""></output></output>	SYSTEM CONFIG → <output format1=""></output>	SYSTEM CONFIG → <output format2=""></output>	SYSTEM CONFIG → <output format="" ip=""></output>
	<output format3="">: UHD-SDI A, UHD-SDI B, UHD-SDI C, UHD-SDI D <output format4="">: UHD-SDI E^{*1}, UHD-SDI F^{*1}, UHD-SDI G^{*1}, UHD-SDI H^{*1}</output></output>	SDI-OUT1, SDI-OUT2, SDI-OUT3, SDI-OUT4	SDI-I/O1, SDI-I/O2, SDI-I/O3, SDI-I/O4	IP-OUT1 ^{*2} , IP-OUT2 ^{*2} , IP-OUT3 ^{*2} , IP-OUT4 ^{*2}
<u>1080/50P(8×)</u> (HDR/SDR)	1080/50P(8×)/3G-A 1080/50P(8×)/3G-B 1080/50P(8×)/12G 1080/50I(8×) 1080/50I(8×)/3G-B 1080/50I(8×)/12G 720/50P(8×)' ⁴ 720/50P(8×)/3G-B ^{*4} 720/50P(8×)/12G	1080/50P(8×)/3G-A 1080/50P(8×)/3G-B 720/50P(8×) ^{*4} 720/50P(8×)/3G-B ^{*4} (The 4 formats above for SDI-OUT1, SDI-OUT2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I	1080/50P(8×)/3G-A 1080/50P(8×)/3G-B 720/50P(8×) ^{*4} 720/50P(8×)/3G-B ^{*4} (The 4 formats above for SDI-I/O1, SDI-I/O2 only) 1080/50I 1080/50P/3G-A 1080/50P/3G-B 720/50P ^{*4} 625/50I	_
		Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	Note HFR output (1080/50) is linked to SDI-OUT1, SDI-OUT2, SDI-I/O1, and SDI-I/O2.	

*2 Configurable only when the HKCU-SFP50 is installed.

*3 720 output can be selected when CCU VIDEO CONVERT is set to ENABLE.

*4 720 output can be selected when both CCU VIDEO CONVERT is set to ENABLE and the HDR mode of the connected camera is set to OFF.

Relationship between output interface and BNC connector assignment

HFR				UHD SDI				SDI OUT		SDI I/O	
				A/E ^{*1}	B/F ^{*1}	C/G ^{*1}	D/H ^{*1}	1	2	1	2
4K	2×	12G	2160P	Link-1	Link-2	Link-1	Link-2	_	_	_	-
		3G-A/B (SQD/2SI)		(Link-1	Link-2	Link-3	Link-4	Link-5	Link-6	Link-7	Link-8
HD	2×	3G-A/B, 1.5G	1080P/720P	Link-1	Link-2	Link-1	Link-2	Link-1	Link-2	(Link-1	Link-2
		3G-B	1080i/720P	Link-1/2	Link-1/2	(Link-1/2)	(Link-1/2)	Link-1/2	Link-1/2	(Link-1/2)	Link-1/2
	3×	3G-A/B, 1.5G	1080i/720P	Link-1	Link-2	Link-3	(Link-2)	Link-1	Link-2	Link-3	(Link-2)
	4×	3G-A/B, 1.5G	1080P/720P	Link-1	Link-2	Link-3	Link-4	(Link-1	Link-2	Link-3	Link-4
		3G-B	1080i/720P	Link-1/2	Link-3/4	Link-1/2	Link-3/4	Link-1/2	Link-3/4	(Link-1/2	Link-3/4
	6×	12G	1080P	Link-1	Link-2	Link-1	Link-2	-	-	-	-
		3G-A/B, 1.5G	1080P/720P	Link-1	Link-2	Link-3	Link-4	Link-4	Link-5	Link-6	Link-3
		3G-B	1080i/720P	Link-1/2	Link-3/4	Link-5/6	Link-3/4	Link-1/2	Link-3/4	Link-5/6	Link-3/4
	8×	12G	1080P	Link-1	Link-2	Link-1	Link-2	-	-	-	-
		3G-A/B, 1.5G	1080P/720P	Link-1	Link-2	Link-3	Link-4	Link-5	Link-6	Link-7	Link-8
		3G-B	1080i/720P	Link-1/2	Link-3/4	Link-5/6	Link-7/8	Link-1/2	Link-3/4	Link-5/6	Link-7/8

*1 Configurable only on HDCU5000 when HKCU-SDI50 is installed.

VIDEO/MONITOR Menu

VIDEO/MONITOR			
Page name Page No.	Item	Set value	Description
<color bar=""> V01</color>	4K/HD-BAR SELECT	BAR 16:9(100%), BAR 16:9(75%), SMPTE 16:9(BLACK), SMPTE 16:9(-I/Q), BAR 4:3(100%), BAR 4:3(75%), SMPTE 4:3(BLACK), SMPTE 4:3(-I/Q), MF-ARIB(75%), MF-ARIB(100%), MF-ARIB(+I), MF-SMPTE(-I,Q), MF-SMPTE(-I,Q), MF-SMPTE(100%,Q), MF-SMPTE(100%,Q), MF-SMPTE(+I,Q), HD-CUSTOM, SDI CHECK FIELD, Y-RAMP, Y/C-RAMP, HD-CUSTOM2	Selects the color bars for 4K output/HD output.
	MF-CB	MODIFY, EVEN	Sets the stripe width for multi-format color bar output.
			MODIFY: Stripe width adjusted to prevent colors mixing in 4:3 Edge crop mode.
			EVEN: Stripe width in accordance with standard.
	SLOPE	<u>WIDE</u> , NARROW	Sets the color difference signal band of the color bars.
			WIDE: Band not limited.
			NARROW: Band is limited to prevent ringing.
	SD		
	SOURCE	4K/HD BAR, <u>SD BAR</u>	Selects the color bar signal source for output to SD. 4K/HD BAR: Down converts the 4K/HD color bars and then outputs it.
			SD BAR: Outputs the SD color bars selected in SELECT.
	SELECT	When SYSTEM CONFIG menu → <multi format=""> page → SYSTEM is set to 1.001(525): SMPTE, EIA, FULL, 95%, NTSC100%, Y/C-RAMP, Y-RAMP</multi>	Selects the SD color bars.
		When SYSTEM CONFIG menu → <multi format=""> page → SYSTEM is set to 1.000(625): <u>SMPTE</u>, EIA, FULL, 95%, PAL100%, Y/C-RAMP, Y-RAMP</multi>	
	BAR-CHARACTER	ON, <u>OFF</u>	Sets the character superimposition on the color bar signal.
	MOVING SYMBOL	ON, <u>OFF</u>	Sets symbol moving on the color bar screen.
	TYPE	0, 1, 2	Selects the symbol type.
	SIZE	<u>SMALL,</u> LARGE	Selects the symbol size.
	2SI DIAMOND MARK	ON, <u>OFF</u>	Sets the marker display for 4K 2SI output.
			This function is for displaying a test pattern like the following in the area at the bottom right of the 4K color bar during 4K 2-sample interleave output. OK is displayed if the connections for Links 1 to 4 are correct, and OK is not displayed if they are incorrect. This function can be used to check the connections.

Correct connections





VIDEO/MONITOR	Item		Set value	Description
Page name Page No.	nem		Set value	Description
<color bar=""> V01</color>	HFR CHANNE MARK	EL	ON, <u>OFF</u>	
<bar character=""> V02</bar>	BAR CHARACTER			Sets the character string to be displayed on each o lines 1 to 16.
	ALL CLEAR			Clears all the character strings set for BAR CHARACTER.
<ccu video=""></ccu>	MONO COLOR		ON, OFF	Turns the MONO COLOR function ON/OFF.
V03	PHASE		0 to 359, <u>0</u>	Sets the MONO COLOR function hue adjustment.
	SATURATI	ON	–99 to 99, <u>0</u>	Sets the MONO COLOR function color level adjustment.
<downconvert> V04</downconvert>	4K-HD DOWNCONV	ERT	<u>1</u> , 2, 3, 4, 1(V:0.3), 1(V:0.6)	Selects the type of filter for downconverting from 4 video signals to HD signals.
	FILTER			Enabled when CAMERA FORMAT is set to UHD/ 59.94P(4K/HDR) or UHD/50P(4K/HDR).
	SD ASPECT		SQUEEZE, <u>EDGE CROP</u> , LETTER BOX	Selects the aspect ratio for SD output.
	NTSC SETUP)	<u>7.5,</u> 0 IRE	Sets the NTSC signal setup level.
<monitor></monitor>	CHARACTER	LEVEL	1, 2, 3, 4, <u>5</u>	Sets the brightness of text in menus, etc.
V05	LEVEL GATE		OFF , 1&2, 1, 2, ()	Sets level gate display.
				OFF: Level gate is not displayed.
				1: Displays level gate 1.
				2: Displays level gate 2.
				1&2: Displays level gate 1 & 2.
				(): Displayed when a camera is not connected (Display only).
	Y-LEVEL1	MIN	0 to 108% <u>49</u>	Sets the minimum detection level for level gate 1 display.
		MAX	0 to 108% <u>61</u>	Sets the maximum detection levels for level gate 1 display.
		LEVEL	–99 to 99 <u>–25</u>	Sets the zebra display level to be added to the detection area.
	Y-LEVEL2	MIN	0 to 108% <u>74</u>	Sets the minimum detection level for level gate 2 display.
		MAX	0 to 108% <u>108</u>	Sets the maximum detection levels for level gate 2 display.
	_	LEVEL	–99 to 99 <u>–25</u>	Sets the zebra display level to be added to the detection area.
	GATE MARKE	ER	<u>OFF</u> , ON, ()	Sets the display of the gate signal detected by the camera.
				OFF: Gate signal is not displayed.
				ON: Displays zebra in the area (skin gate, etc.) detected by the camera.
				(): Displayed when a camera is not connected (Display only).
	LEVEL		–99 to 99 <u>0</u>	Sets the zebra display level to be added to the detection area.
	ASPECT MARKER		<u>OFF</u> , ON	Sets aspect marker display.
	SELECT		4:3, 13:9, 14:9, EU VISTA, VISTA, CINEMA, FOLLOW DC	Selects the marker type.
	MODULAT OFF	ION ON/	<u>OFF</u> , ON	Sets the mask function for outside the marker fram
	MODULATI LEVEL	ION	–99 to 99 <u>0</u>	Sets the mask level.

VIDEO/MONITOR			
Page name Page No.	Item	Set value	Description
<spirit level=""></spirit>	INDICATOR	<u>OFF</u> , ON,	Sets spirit level display.
V06			This can be set when connected with a camera which has a lens that supports serial communication attached.
	REVERSE	<u>OFF</u> , ON	Selects the indicator move direction for tilting.
	H POSITION	0 to 99 <u>50</u>	Spirit level display position (horizontal)
	V POSITION	0 to 99 <u>50</u>	Spirit level display position (vertical)
<display> V07 Sets the items to be</display>	MESSAGE	ALL, WARNING, OFF	Sets the display of messages for the camera auto setup operation status, warnings that occur in the system, etc.
displayed on the camera			ALL: Displays all messages.
setting status page of the status display screen.			WARNING: Displays system warning messages and menu control messages.
			OFF: Displays only menu control messages.
	CAMERA	<u>ON</u> , OFF	Displays or hides the model name of the connected camera.
	LENS FILE	<u>ON</u> , OFF	Displays or hides the LENS FILE name.
	MASTER GAIN	<u>ON</u> , OFF	Displays or hides the master gain setting value.
	MODE	<u>STEP GAIN</u> , MASTER WHITE, F DROP GAIN, TOTAL GAIN	Switches the MASTER GAIN display mode.
			STEP GAIN: Displays the STEP GAIN value.
			MASTER WHITE: Displays the MASTER WHITE GAIN value.
			F DROP GAIN: Displays the F DROP GAIN value.
			TOTAL GAIN: Displays the total value of the STEP GAIN, MASTER GAIN, and F DROP GAIN values combined.
	MASTER WHITE IND	<u>ON</u> , OFF	Displays or hides the enabled status of the master white gain.
	SHUTTER	<u>ON</u> , OFF	Displays or hides the shutter speed/ECS frequency setting value.
	ND FILTER	<u>ON</u> , OFF	Displays or hides the ND filter type.
	CC FILTER	<u>ON</u> , OFF	Displays or hides the CC filter type.
	IRIS	<u>ON</u> , OFF	Displays or hides the iris status.
	EXTENDER	<u>ON</u> , OFF	Displays or hides the lens extender/digital extender status.
	F DROP IND	<u>ON</u> , OFF	Display or hides the F-drop status.
	MIC	<u>ON</u> , OFF	Displays or hides the camera microphone switch status.

AUDIO/INTERCOM Menu

AUDIO/INTERCOM			
Page name Page No.	Item	Set value	Description
<mic gain=""></mic>	CAM MIC GAIN		Sets the camera microphone gain.
A01	CH1	(), 20, 30, 40, 50, <u>60</u> dB	Set according to the microphone used.
	CH2	(), 20, 30, 40, 50, <u>60</u> dB	 - (): Displayed when a camera is not connected (Display only).
<audio out=""> A02</audio>	DELAY	0, 5, 11, 16, 21, 27, 32, 37, 43, 48, 53, 59, 64, 69, 75, 80 ms	Sets the camera microphone output phase.
	AES/EBU OUT	MIC1/2, AES/EBU	Selects the AES/EBU output.
			MIC1/2: Outputs the camera MIC1/2 input from the AES/EBU connector of the CCU.
			AES/EBU: Outputs the camera AES/EBU input from the AES/EBU connector of the CCU.
	ANALOG OUT	MIC1/2, AES/EBU	Selects the MIC OUT ANALOG output.
			MIC1/2: Outputs the camera MIC1/2 input from the AUDIO OUT connector of the CCU.
			AES/EBU: Outputs the camera AES/EBU input from the AUDIO OUT connector of the CCU.
	CH1 : LEVEL	–20, <u>0</u> , +4 dBu	Sets the AUDIO CH1 output level.
	CH1 : ADJUST	–99 to 99, <u>0</u>	_
	CH2 : LEVEL	–20, 0 , +4 dBu	Sets the AUDIO CH2 output level.
	CH2 : ADJUST	–99 to 99, <u>0</u>	_
<intercom></intercom>	INTERCOM CH	1CH(PROD), 2CH(PRODŊ)	Selects the intercom channel number to be used.
A03	PRODUCER INTERFACE	CLEAR COM, <u>4WIRE</u> , RTS	Sets the producer line intercom system.
	SIDE TONE CANCEL	–99 to 99 <u>0</u>	Sets the side tone cancel level. (Setting is possible when CLEAR COM or RTS is selected)
	TERMINATION	<u>OFF</u> , ON	Sets termination resistance (200 ohms). (Setting is possible when CLEAR COM or RTS is selected)
			OFF: Displayed when 4WIRE is selected in PRODUCER INTERFACE (Display only).
	ENGINEER INTERFACE	CLEAR COM, <u>4WIRE</u> , RTS	Sets the engineer line intercom system.
	SIDE TONE CANCEL	0 to 99 <u>0</u>	Sets the side tone cancel level. (Setting is possible when CLEAR COM or RTS is selected)
	TERMINATION	<u>OFF</u> , ON	Sets termination resistance (200 ohms). (Setting is possible when CLEAR COM or RTS is selected)
			OFF: Displayed when 4WIRE is selected in ENGINEER INTERFACE (Display only).
	PGM1 INPUT LEVEL	–20, <u>0</u> , +4 dBu	Sets the PGM1 input level.
	PGM2 INPUT LEVEL	–20, <u>0</u> , +4 dBu	Sets the PGM2 input level.
	PGM3 INPUT LEVEL	–20, <u>0</u> , +4 dBu	Sets the PGM3 input level.

AUDIO/INTERCOM			
Page name Page No.	Item	Set value	Description
<front intercom=""></front>	MIC/PGM	(PGM ON), (MIC OFF), (MIC ON)	Front panel MIC/PGM switch position (Display only)
A04	I/F	(PROD), (ENG), (PRIVATE)	Front panel INTERCOM switch position. (Display only)
	PRIVATE SW	ENABLE, DISABLE(SET TO ENG),	Operation when the INTERCOM switch on the front panel is set to the PRIV (private) position.
		DISABLE(SET TO PROD)	ENABLE: Private operation
			DISABLE(SET TO ENG): ENG line operation
	INTERCOM MIC	DYNAMIC, ECM, CARBON	Sets the headset microphone connected to the INTERCOM connector on the front panel.
			CARBON: Carbon microphone (power supply, 20 dB gain)
			ECM: Electret condenser microphone (power supply, 40 dB gain)
			DYNAMIC: Dynamic microphone (no power supply, 60 dB gain)
	INTERCOM MIC TYPE	BALANCED, UNBALANCED	Sets the headset microphone connected to the INTERCOM connector on the front panel.
			BALANCED: Balanced microphone
			UNBALANCED: Unbalanced microphone
	INTERCOM MIC GAIN	−6, 0 , +6 dB	Sets the microphone input gain.
	SIDE TONE LEVEL	0 to 99 <u>50</u>	Sets the side tone level.
	PGM MIX MODE	OFF, INCOM+PGM,	OFF: Signals are not mixed.
		L-INCOM/R-PGM	INCOM+PGM: INCOM and PGM signals are mixed.
			L-INCOM/R-PGM: Outputs INCOM signal through the left channel and PGM signal through the right.
	PGM SELECT	<u>PGM1</u> , PGM2, PGM3, PGM1+PGM2+PGM3	Selects the PGM audio output from the FRONT INTERCOM connector.
	PGM1 LEVEL	0 to 99, <u>50</u>	Sets the MIX level of PGM1.
	PGM2 LEVEL	0 to 99, <u>50</u>	Sets the MIX level of PGM2.
	PGM3 LEVEL	0 to 99, <u>50</u>	Sets the MIX level of PGM3.
<test tone=""></test>	SOURCE	1kHz	Sets the audio source of the test tone.
A05	LEVEL	0, –10, <u>–20</u> , –30, –40, –50, –60, –70 [dB]	Sets the level of the test tone.
	ANALOG OUT CH	NONE, ALL, MIC1, MIC2, AES/EBU1, AES/EBU2, INTERCOM ENG, INTERCOM PROD	Sets the analog output channel of the test tone.
	IP OUT CH	NONE, ALL, MIC1, MIC2, AES/EBU1, AES/EBU2, INTERCOM ENG, INTERCOM PROD	Sets the IP output channel of the test tone.

AUDIO/INTERCOM			
Page name Page No.	Item	Set value	Description
<ip audio=""></ip>	AUDIO OUT		
A06 Displayed only when HKCU-SFP50 is installed.	FORMAT	L24/48kHz/1ms/2ch, L24/48kHz/ 1ms/4ch, L24/48kHz/1ms/8ch, L24/48kHz/0.125ms/2ch, L24/ 48kHz/0.125ms/4ch, L24/48kHz/ 0.125ms/8ch, L24/48kHz/ 0.125ms/16ch	Sets the audio format.
	CH ORDER	MIC1, MIC2, AES/EBU1, AES/EBU2	Displays the channel order.
	HD TRUNK AUDIO O	UT	
	FORMAT	L24/48kHz/1ms/2ch, L24/48kHz/ 1ms/4ch, L24/48kHz/1ms/8ch, L24/48kHz/0.125ms/2ch, L24/ 48kHz/0.125ms/4ch, L24/48kHz/ 0.125ms/8ch, L24/48kHz/ 0.125ms/16ch	Sets the audio format.
	CH ORDER	THROUGH	Displays the channel order.
	PGM IN		
	FORMAT	L24/48kHz/1ms/2ch, L24/48kHz/ 1ms/4ch, L24/48kHz/1ms/8ch, L24/48kHz/0.125ms/2ch, L24/ 48kHz/0.125ms/4ch, L24/48kHz/ 0.125ms/8ch, L24/48kHz/ 0.125ms/16ch	Sets the audio format.
	CH ORDER	PGM1, PGM2, PGM3	Displays the channel order.
<ip intercom=""></ip>	INTERCOM OUT		
A07 Displayed only when HKCU-SFP50 is installed.	FORMAT	L24/48kHz/1ms/2ch, L24/48kHz/ 1ms/4ch, L24/48kHz/1ms/8ch, L24/48kHz/0.125ms/2ch, L24/ 48kHz/0.125ms/4ch, L24/48kHz/ 0.125ms/8ch, L24/48kHz/0.125ms/ 16ch	Sets the audio format.
	CH ORDER	ENG, PROD	Displays the channel order.
	INTERCOM IN		
	FORMAT	L24/48kHz/1ms/2ch, L24/48kHz/ 1ms/4ch, L24/48kHz/1ms/8ch, L24/48kHz/0.125ms/2ch, L24/ 48kHz/0.125ms/4ch, L24/48kHz/ 0.125ms/8ch, L24/48kHz/0.125ms/ 16ch	Sets the audio format.
	CH ORDER	ENG, PROD	Displays the channel order.

MAINTENANCE Menu

MAINTENANCE			
Page name Page No.	Item	Set value	Description
<trunk prompter=""> M01</trunk>	TRUNK LINE		
	CHANNEL MODE	2CH(MAX 75Kbps) , 1CH(MAX 150Kbps)	Sets the number of channels to be used.
	INTERFACE	232C , 422A	Sets the communication line mode.
	PROMPTER CH	<u>2CH</u> , 1CH	Sets the number of prompter lines.
			Note
			The number of lines will vary depending on the number of prompter lines of the connected camera.
<trunk prompter2=""> M02</trunk>	NETWORK TRUNK	OFF, NETWORK,	Sets the mode for the network trunk.
		NETWORK+VIDEO	OFF: NETWORK TRUNK is not used.
			NETWORK: Network Trunk is used (maximum 1 Gbps)
			NETWORK+VIDEO: Network trunk is used at the same time as HD Trunk/HD Prompter (maximum 100 Mbps)
			Note
			When <camera f="" i=""> → FIBER TRANSMIT RATE is set to ULTRA, this is set to NETWORK+VIDEO (fixed).</camera>
	DATA RATE	100Mbps, 1Gbps	Displays the data transfer rate.
			Note
			When <camera f="" i=""> \rightarrow FIBER TRANSMIT RATE is set to ULTRA, this item can be set.</camera>
	CAMERA	ENABLE, DISABLE	Displays whether the camera is enabled/disabled (Display only).
	HD/UHD TRUNK	ENABLE, DISABLE	Displays whether HD TRUNK is enabled/disabled (Display only).
	DATA RATE	<u>1.5G</u> , 12G	Displays the HD TRUNK data rate.
	HD PROMPTER	ENABLE, DISABLE	Displays whether HD PROMPTER is enabled/ disabled (Display only).
			Fixed to DISABLE when using SDI-RET on HDCU5000/5500.
	FRAME SYNC	OFF, ON, (ON)	Turns the frame synchronizer function ON/OFF.
	SOURCE	<u>SDI-I/O4</u> , IP-RET3	Sets the HD prompter signal source.
			IP-RET3 can be selected only when the HKCU-SFP50 ST 2110 Interface Kit is installed.
	UHD PROMPTER	ENABLE, DISABLE	Displays whether UHD prompter is enabled/disabled (Display only).
	DATA RATE	<u>1.5G</u> , 3G, 6G, 12G	Sets the UHD prompter data rate.
	FRAME SYNC	<u>OFF</u> , ON, (ON)	Turns the frame synchronizer function ON/OFF.
	SOURCE	UHD-SDI D	Sets the UHD prompter signal source.

MAINTENANCE			
Page name Page No.	Item	Set value	Description
<menu settings=""> M03</menu>	PAGE RESUME	<u>ON</u> , OFF	Turns the menu mode resume page display function ON/OFF.
	ALARM JUMP	ON, <u>OFF</u>	Turns the error-related page display function ON/ OFF for when an error occurs while in menu mode.
	CAMERA MENU CTRL	<u>OFF</u> , ON	Displays the camera menu.
			Notes
			 If CAM MENU is set to ON, CCU menu operations cannot be performed because only camera menu operations are available.
			 The camera menu is not displayed when SD signal is output.
<date&time></date&time>	DATE (YEAR)	17 to 99	Sets the date and time.
VI04	DATE (MONTH)	1 to 12	- Noto
	DATE (DAY)	1 to 31	Note
	TIME (HOUR)	0 to 23	When this is changed, all logs stored on the unit will – be deleted.
	TIME (MINUTE)	0 to 59	
	TIME ZONE (HOUR)	–23 to +23, 0	Sets the time zone.
	TIME ZONE (MINUTE)	<u>0</u> to 59	
<tally input=""> M05</tally>	R-TALLY	CONTACT	RED tally input setting
			Note
			This is set to CONTACT (fixed).
	G-TALLY	CONTACT	GREEN tally input setting
			Note
		0017107	This is set to CONTACT (fixed).
	Y-TALLY	CONTACT	YELLOW tally input setting
			Note This is set to CONTACT (fixed).
<alarm settings=""></alarm>	FORCE LEGACY	OFF, <u>ON</u>	Set to OFF to not display the FORCE LEGACY alarm.
M06	CABLE OPEN	OFF, ON	Set to OFF to not display the CABLE OPEN alarm.
	GENLOCK ERROR	OFF, <u>ON</u>	Set to OFF to not display the GENLOCK ERROR
		011, <u>01</u>	alarm.
<sdi ancillary="" data=""> M07</sdi>	VIDEO PAYLOAD ID	LATEST, 2002, 2010, 2011, 2017	Selects the standard year of the payload ID to be added to the SDI VIDEO output.
	EMBED AUDIO	OFF, <u>ON</u>	Sets whether to embed audio in the SDI VIDEO output.
	EMBED META DATA	OFF, <u>ON</u>	
<front panel=""> M08</front>	ASSIGNABLE SWITCH	NONE, BARS, CAM POWER, FORCE LEGACY, OPTICAL	Sets the function to be assigned to the assignable button on the front panel.
		SIGNAL	NONE: No assignment.
			BARS: Sets the color bar output to ON/OFF.
			CAM POWER: Sets camera power to ON/OFF.
			FORCE LEGACY: Forces the communication mode to LEGACY mode.
			OPTICAL SIGNAL: Turns the optical signal output from the CCU to the camera ON/OFF.
	SIGNAL BAR		
	DISPLAY	OFF, <u>ON</u>	Switches the signal bar display on the front panel.
	READY COLOR	WHITE, GREEN, BARS	Sets the color for the ready status (during color bar output).
	BRIGHTNESS	LOW, MIDDLE, <u>HIGH</u>	Sets the signal bar brightness level.

MAINTENANCE			
Page name Page No.	Item	Set value	Description
<option> M09</option>	READ KEY FROM USB	Execute using ENTER.	Reads the installation key from the USB flash drive.
	INSTALLED OPTIONS		Lists the installed option software (Display only).
	HARDWARE OPTIONS		Lists the installed hardware options (Display only).
<misc></misc>	OPTICAL SIGNAL	ENABLE, DISABLE	Sets whether to save the state of the OPTICAL
M10	BACKUP		SIGNAL setting on the <camera f="" i=""> page of the SYSTEM CONFIG menu for the next startup.</camera>

FILE Menu

FILE			
Page name Page No.	Item	Set value	Description
<ccu file=""></ccu>	FILE INDEX	1 to 5, <u>1</u>	Selects the file number of the target for operation.
F01	RECALL		All menu settings of the unit can be saved to a CCU file. Use RECALL to load and apply the saved settings to simplify the setup operation.
			Note
			The IP address, subnet mask, and default gateway settings of the LAN COM connector are not loaded using RECALL.
	STORE		Saves a CCU file to the internal memory.
			Up to five CCU files can be saved in the unit. Select the file number on the STORE screen.
	EXPORT TO USB		Exports a CCU file to the USB flash drive. Exporting is also supported using the web menu.
			The path for the USB flash drive is "/MSSONY/PRO/ CAMERA/HDCU5000"
	IMPORT FROM USB	l .	Imports a CCU file from the USB flash drive. Importing is also supported using the web menu.
			The path for the USB flash drive is "/MSSONY/PRO/ CAMERA/HDCU5000"
	FILE NAME1 to 5	NO_FILE	Sets the CCU file name.
			ASCII code, 1 to 32 characters
	CLEAR ALL		Deletes all CCU files.
<log></log>	LOG	ENABLE, DISABLE	Enables or disables saving of log files.
F02	EXPORT TO USB		Saves logs to the USB flash drive (Execute using EXEC).
			The path of the USB flash drive is "/MSSONY/PRO/ CAMERA/HDCU5000"
	CLEAR		Deletes logs stored internally on the unit (Execute using EXEC).
			Note
			Logs for up to 30 days are stored. Logs are deleted when the 30-day maximum is reached, starting with the oldest.

NETWORK Menu

NETWORK			
Page name Page No.	Item	Set value	Description
<ip address=""></ip>	PORT	LAN-COM, LAN1, LAN2	Selects the port for which to set the IP address.
N01	DHCP	<u>ON</u> , OFF	Enables or disables DHCP.
	IP ADDRESS	0.0.0.0 to 255.255.255.255	Sets the IP address.
			Note
			If there is no DHCP server available on the network when DHCP is set to ON, a unique Link-Local address (169.254.0.0/16) is assigned locally by the Auto IP function. If an IP address is assigned to the DHCP server, the Auto IP function will not be activated while the unit is operating (powered) in order to prevent incorrect operation, even if communication with the DHCP server is subsequently interrupted. This IP address may change if the unit is restarted, and should only be used for setup purposes. The Auto IP function applies only to the LAN COM connector. It does not apply to the LAN 1 and LAN 2 connectors of the HKCU-SFP50.
	SUBNET MASK	0.0.0.0 to 255.255.255.255	Sets the subnet mask.
	DEFAULT GATEWAY	0.0.0.0 to 255.255.255.255	Sets the default gateway.
	SET	. <u></u>	A "SET OK?" message is displayed. Press ENTER again to confirm the change. (Execute using ENTER)
	COPY TO STATIC ADDRESS		Copies the IP ADDRESS, SUBNET MASK, and DEFAULT GATEWAY settings obtained with DHCP set to ON to the static settings when DHCP is set to OFF.
	MAC ADDRESS	0000000000000000 to fffffffffff	Displays the MAC address of each port.
	LINK SPEED	10G, 25G	Displays the link speed. Displayed only when LAN1 or LAN2 is selected.
			Note Always set LAN1 and LAN2 to the same link speed. Normal operation will not occur if the settings are different.
	25G FEC	OFF, <u>RS-FEC(CL108)</u> , FC-FEC(CL74)	Sets the FEC mode for 25G. Displayed only when LAN1 or LAN2 is selected.
			Note Set to the port setting of the IP switch to be connected.
<cns settings=""></cns>	CNS MODE	LEGACY, BRIDGE, MCS	Sets the communication mode.
N02	MCS MODE	CLIENT	Indicates that the unit is the client when MCS mode is selected (Display only).
	CCU NO	When MCS is selected in CNS MODE: Blank, 1 to 96 When LEGACY or BRIDGE is selected in CNS MODE: Blank,	Sets the CCU number.
	MASTER IP ADDRESS	1 to 96, A to Z <u>0.0.0.0</u> to 255.255.255.255	Sets the master device IP address for MCS mode.
	SET		A "SET OK?" message is displayed. Press ENTER again to confirm the change. (Execute using ENTER)

NETWORK			
Page name Page No.	Item	Set value	Description
<web menu=""></web>	WEB MENU	ENABLE, DISABLE	Enables/disables the web menu.
N03	PORT	LAN-COM	Selects the connection port.
	SERVICE DISCOVERY	<u>ON</u> , OFF	Enables/disables the service discovery function. ON: Display the CCU list in the web menu. OFF: Do not display the CCU list in the web menu.
			Notes
			 Set this to OFF if the CCU list is not required or when you want to reduce the network load as much as possible.
			• When set to OFF, the unit cannot be detected by the service discovery from other CCUs on the same subnet.
<network genlock=""></network>	PORT	LAN1, LAN2	Selects the port to use.
N04 Displayed only when	NETWORK GENLOCK	DISABLE, <u>ENABLE</u>	Enables/disables network genlock.
HKCU-SFP50 is installed.	PROFILE	ST2059-2	Displays the supported profile.
			Only the ST2059-2 profile is supported.
	DOMAIN NUMBER	0 to 127, <u>127</u>	Sets the domain number.
			Note
			Set to the domain number of the master device to be connected.
		MULTICAST MODE, MIXED	MIXED MODE: Unicast reply to the master.
	MODE	MODE	MULTICAST MODE: Multicast reply to the master.
	DELAY REQUEST INTERVAL	–7 to –1, <u>–3</u>	Displays the delay of the response to the PTP master.
	PTP MASTER INFO		Displays information obtained from the PTP master.
	IP ADDRESS	0.0.0.0 to 255.255.255.255	Displays the IP address of the currently synchronized PTP master device.
	SYNC INTERVAL	−7 to −1, <u>−3</u>	Displays the Sync Interval setting of the master device.
	PRIORITY 1	0 to 255, <u>128</u>	Displays the priority level of the PTP master.
	PRIORITY 2	0 to 255, <u>128</u>	The lower the number, the higher the priority.
	STEP	ONE-STEP, TWO-STEP	Displays the mode in which the timestamp is sent.
			ONE-STEP: Sent in Sync message.
			TWO-STEP: Sent in Follow-up message.
	LOCK STATUS	NOT IN USE, NO MASTER,	Displays the genlock operation status.
		LOCKING, LOCKED	NOT IN USE: PTP operation stopped
			NO MASTER: PTP master not found
			LOCKING: Synchronizing
			LOCKED: Synchronized

NETWORK			
Page name Page No.	Item	Set value	Description
<ptp status=""></ptp>	PTP NIC	LAN1, LAN2	Displays the port on which PTP is running.
N05	STATUS	NO MASTER, LOCKED,	Displays the PTP status.
Displayed only when		LOCKING, NOT IN USE	NOT IN USE: PTP operation stopped
HKCU-SFP50 is installed.			NO MASTER: PTP master not found
			LOCKING: Synchronizing
			LOCKED: Synchronized
	PORT	LAN1, LAN2	Selects the port for which to display the status.
	UTC Time	1970-01-01 00:00:00	Master time (displays the internal time when the master is Free-run or Disable).
	MasterID	000000000000000-0	Displays the master clock ID.
	GMClockID	00000000000000-0	Displays the grandmaster clock ID.
	Sync	0Hz (0pkts)	Displays the sync message rate.
	FollowUp	0Hz (0pkts)	Displays the follow-up message rate.
	DelayReq	0Hz (0pkts)	Displays the delay request message rate.
	DelayResp	0Hz (0pkts)	Displays the delay response message rate.
	Network Status	UNAVAILABLE, NOT GOOD, GOOD, VERY GOOD	Displays the network status.
	Delay	Ons	Displays the network delay.
	Jitter	Ons	Displays the network jitter.
<ip live=""></ip>	IP LIVE SYSTEM MAN	NAGER	
N06	PORT	DISABLE, LAN1&LAN2	Sets the IP Live System Manager (LSM).
Displayed only when			DISABLE: Does not communicate with LSM.
HKCU-SFP50 is installed.			LAN1&LAN2: Communicates with LSM using LAN and LAN2 (for redundancy).
			Note Restart the unit after changing the PORT setting.
	DHCP	OFF	Sets the IP address of the LSM (fixed OFF).
	PRIMARY IP	0.0.0.0 to 255.255.255.255	Sets the IP address of LSM1.
	ADDRESS	<u>0.0.0.0</u> 10 200.200.200.200	Sets the IF address of LSM1.
	SECONDARY IP ADDRESS	0.0.0.0 to 255.255.255.255	Sets the IP address of LSM2.
	PRIMARY	DISCONNECTED, CONNECTING,	Displays the status of the connection with LSM1.
	CONNECTION	CONNECTED	DISCONNECTED: Disconnected.
	STATUS		CONNECTING: Establishing communication.
			CONNECTED: Communication established.
	SECONDARY	DISCONNECTED, CONNECTING,	Displays the status of the connection with LSM2.
	CONNECTION	CONNECTED	DISCONNECTED: Disconnected.
	STATUS		CONNECTING: Establishing communication.
			CONNECTED: Communication established.
	MULTICAST ADDRESS	AUTO, MANUAL	Sets the mode switching method for the multicast address setting of IP stream.
			Fixed to AUTO when PORT is set to LAN1&LAN2, and uses multicast addresses configured from the LSM.
			Fixed to MANUAL when PORT is set to DISABLE,
			and uses the addresses set manually using the MULTICAST ADDRESS 1 to 5 pages.

NETWORK			
Page name Page No.	Item	Set value	Description
<nmos></nmos>	PORT	DISABLE, LAN-COM	Selects the ports on which NMOS is enabled.
N07 Displayed only when			Can be selected only when $\langle IP \ LIVE \rangle \rightarrow IP \ LIVE$ SYSTEM MANAGER \rightarrow PORT is set to DISABLE.
HKCU-SFP50 is installed.	PORT NUMBER (IS-04 NODE)	100 to 65535, <u>3001</u>	Sets the port number for the IS-04 Node API.
	PORT NUMBER (IS-05 CONNECTION)	100 to 65535, <u>3002</u>	Sets the port number for the IS-05 Connection API.
	RDS DISCOVERY	<u>ON</u> , OFF	Enables/disables auto detection using the Registration & Discovery System (RDS).
			When enabled, RDS discovery is enabled within the same subnet.
			Note
			If RDS is not available on the same subnet, disable the setting and set the IP address manually.
	RDS CONNECTION STATUS	DISCONNECTED, CONNECTING, CONNECTED	Displays the RDS connection status.
	RDS IP ADDRESS	<u>0.0.0.0</u> to 255.255.255.255	Displays the detected RDS IP address when RDS DISCOVERY is set to ON.
			Sets the RDS IP address manually when RDS DISCOVERY is set to OFF.
	RDS PORT NUMBER	100 to 65535, 18235	Displays the detected RDS port when RDS DISCOVERY is set to ON.
			Sets the RDS port manually when RDS DISCOVERY is set to OFF.
<multicast address<br="">1></multicast>	MULTICAST ADDRESS	<u>AUTO</u> , MANUAL	Displays the mode of the multicast address setting of the IP stream.
N08	VIDEO OUT LAN1-1		Note
Displayed only when HKCU-SFP50 is installed.			Displayed on the HDCU3500 only when the HZCU-UHD35 option is enabled.
	IP ADDRESS	224.0.0.1 to 239.255.255.255	Displays the destination IP address.
	PORT	100 to 65535	Displays the transmit destination port number.
	VIDEO OUT LAN1-2		Same setting items and values as VIDEO OUT LAN1-1.
	VIDEO OUT LAN1-3		Same setting items and values as VIDEO OUT LAN1-1.
	VIDEO OUT LAN1-4		Same setting items and values as VIDEO OUT LAN1-1.
	VIDEO OUT LAN2-1		Same setting items and values as VIDEO OUT LAN1-1.
	VIDEO OUT LAN2-2		Same setting items and values as VIDEO OUT LAN1-1.
	VIDEO OUT LAN2-3		Same setting items and values as VIDEO OUT LAN1-1.
	VIDEO OUT LAN2-4		Same setting items and values as VIDEO OUT LAN1-1.
			Note
			Displayed on the HDCU3500 only when the HZCU-UHD35 option is enabled.

Page No. Item Set value Description odu/LICAST ADDRESS 2-1- MOPORESS AUTO, MANUAL ADDRESS AUTO, MANUAL ADDRESS Displays the MULTCAST SETTINGS page. NO9 RETURN LAN1-1 Interview of the Set s	NETWORK			
2-1-5 ADDRESS	•	Item	Set value	Description
Displayed only when HKCU-SFPS0 is installed. Microsoft IP ADDRESS Z24.0.0.1 to 239.255.255.255 Displays the receive destination Paratress. PORT 100 to 65535 Displays the receive destination opt number. SRC IP 0.0.0.0 to 255.255.255 Displays the receive destination opt number. RETURN LAN1-2 Same setting items and values as RETURN LAN1-1. RETURN LAN1-3 Same setting items and values as RETURN LAN1-1. RETURN LAN1-4 Same setting items and values as RETURN LAN1-1. RETURN LAN1-4 Same setting items and values as RETURN LAN1-1. Displays the MULTICAST ADDRESS ADDRESS setting of the HZOLUHDAS capton is enabled. ADDRESS 2/2- NB RETURN LAN2-1 Displays the function of values as RETURN LAN2-1. Displayed only when HKCU-SFPS0 is installed. FRETURN LAN2-1 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination opt number. RETURN LAN2-2 Same setting items and values as RETURN LAN2-1. RETURN LAN2-2 Same setting items and values as RETURN LAN2-1. RETURN LAN2-3 Same setting items and values as RETURN LAN2-1. RETURN LAN2-4 Same setting items and values as RETURN LAN2-1.			<u>AUTO</u> , MANUAL	
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PGM IN LAN2 Same setting items and values as PGM IN LAN1. <multicast address<="" td=""> MULTICAST AUTO, MANUAL Displays the MULTICAST ADDRESS setting of the <multicast setting=""> page. N11 INTERCOM OUT LAN1 INTERCOM OUT LAN1 INTERCOM OUT LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the transmit destination IP address. PORT 100 to 65535 Displays the transmit destination port number. INTERCOM OUT LAN2 Same setting items and values as INTERCOM OUT LAN2 INTERCOM OUT LAN2 Same setting items and values as INTERCOM OUT LAN1. INTERCOM IN LAN1 INTERCOM IN LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN</multicast></multicast>		PORT	<u>100 to 65535</u>	Displays the receive destination port number.
<multicast address<="" td=""> MULTICAST ADDRESS AUTO, MANUAL ADDRESS Displays the MULTICAST ADDRESS setting of the <multicast setting=""> page. N11 INTERCOM OUT LAN1 INTERCOM OUT LAN1 INTERCOM OUT LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the transmit destination IP address. PORT 100 to 65535 Displays the transmit destination port number. INTERCOM OUT LAN2 INTERCOM OUT LAN2 Same setting items and values as INTERCOM OUT LAN1. INTERCOM IN LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 PORT 100 to 65535 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN</multicast></multicast>		SRC IP	0.0.0.0 to 255.255.255.255	Displays the stream transmit source IP address.
4> ADDRESS <multicast setting=""> page. N11 INTERCOM OUT LAN1 Displayed only when HKCU-SFP50 is installed. IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the transmit destination IP address. PORT 100 to 65535 Displays the transmit destination port number. INTERCOM OUT Same setting items and values as INTERCOM OUT LAN2 INTERCOM IN LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN</multicast>		PGM IN LAN2		Same setting items and values as PGM IN LAN1.
Displayed only when IP ADDRESS 224.0.0.1 to 239.255.255 Displays the transmit destination IP address. PORT 100 to 65535 Displays the transmit destination port number. INTERCOM OUT Same setting items and values as INTERCOM OUT LAN1 INTERCOM IN LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN			AUTO, MANUAL	
IP ADDRESS 224.0.0.1 to 259.255.255 Displays the transmit destination IP address. PORT 100 to 65535 Displays the transmit destination port number. INTERCOM OUT LAN2 Same setting items and values as INTERCOM OUT LAN1. INTERCOM IN LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 PORT 100 to 65535 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN				
INTERCOM OUT LAN2 Same setting items and values as INTERCOM OUT LAN1. INTERCOM IN LAN1 INTERCOM IN LAN1 IP ADDRESS 224.0.0.1 to 239.255.255.255 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN	HKCU-SFP50 is installed.	IP ADDRESS	224.0.0.1 to 239.255.255.255	Displays the transmit destination IP address.
LAN2 LAN1. INTERCOM IN LAN1 IP ADDRESS IP ADDRESS 224.0.0.1 to 239.255.255 Displays the receive destination IP address. PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN		PORT	100 to 65535	Displays the transmit destination port number.
IP ADDRESS224.0.0.1 to 239.255.255Displays the receive destination IP address.PORT100 to 65535Displays the receive destination port number.SRC IP0.0.00to 255.255.255Displays the stream transmit source IP address.INTERCOM IN LAN2Same setting items and values as INTERCOM IN				
PORT 100 to 65535 Displays the receive destination port number. SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN		INTERCOM IN LAN1		
SRC IP 0.0.0.0 to 255.255.255 Displays the stream transmit source IP address. INTERCOM IN LAN2 Same setting items and values as INTERCOM IN		IP ADDRESS	224.0.0.1 to 239.255.255.255	Displays the receive destination IP address.
INTERCOM IN LAN2 Same setting items and values as INTERCOM IN		PORT	100 to 65535	Displays the receive destination port number.
		SRC IP	0.0.0.0 to 255.255.255.255	Displays the stream transmit source IP address.
		INTERCOM IN LAN2		

NETWORK			
Page name Page No.	Item	Set value	Description
<multicast address<br="">5></multicast>	MULTICAST ADDRESS	AUTO, MANUAL	Displays the MULTICAST ADDRESS setting of the <multicast setting=""> page.</multicast>
N12	META OUT LAN1-1		
Displayed only when HKCU-SFP50 is installed.	IP ADDRESS	224.0.0.1 to 239.255.255.255	Displays the transmit destination IP address.
	PORT	<u>100 to 65535</u>	Displays the transmit destination port number.
	META OUT LAN1-2		Same setting items and values as META OUT LAN1-1.
	META OUT LAN1-3		Same setting items and values as META OUT LAN1-1.
	META OUT LAN2-1		Same setting items and values as META OUT LAN1-1.
	META OUT LAN2-2		Same setting items and values as META OUT LAN1-1.
	META OUT LAN2-3		Same setting items and values as META OUT LAN1-1.
<ember+> N13</ember+>	EMBER+	DISABLE, ENABLE	Enables/disables configuration using Ember+.
			Note
			Can be enabled by installing HZCU-CNFG50 Config Control Software (option).
	PORT	LAN-COM	Displays the connection port name.
	PORT NUMBER	9000	Displays the TCP port number for the Ember+ connection.
	CONNECTION STATUS	DISCONNECTED, CONNECTING, CONNECTED	Displays the connection status of Ember+ communication.
			DISCONNECTED: Disconnected.
			CONNECTING: Establishing communication.
			CONNECTED: Communication established.
<tsl umd=""></tsl>	TSL UMD	DISABLE, ENABLE	Enables/disables IP Tally using TSL UMD V5.0.
N14	PORT	LAN-COM	Displays the connection port name.
	PORT NUMBER	<u>8900</u>	Displays the UDP port number of the TSL UMD connection.
	PACKET STATUS	NOT RECEIVED, RECEIVED	Displays the TSL UMD packet reception status.
			When received, it also displays IDs and the on/off status of the red, green, and yellow tallies.
			Up to five IDs can be displayed. "AND MORE" is displayed if there are more.

NETWORK			
Page name Page No.	Item	Set value	Description
<snmp> N15</snmp>	SNMP	ENABLE, <u>DISABLE</u>	Enables/disables SNMP.
115			Note
			Can be enabled by installing HZCU-SNMP50 SNMP Agent Software (option).
	PORT	LAN-COM	Displays the connection port name.
	NAME		Displays the system name (ASCII code, up to 32 characters).
	CONTACT		Displays the system administrator's name (ASCII code, up to 32 characters).
	LOCATION		Displays the system installation location (ASCII code, up to 32 characters).
	V1		
	ENABLE	ENABLE, DISABLE	Enables/disables SNMP V1.
	V2C		
	ENABLE	ENABLE, DISABLE	Enables/disables SNMP V2C.
	V1/V2C		
	RO COMMUNITY	sony	Displays the ReadOnly community name (ASCII code, up to 32 characters).
	ALLOW HOST	ANY, SPECIFIC	Sets the hosts that can be connected.
			ANY: Allow access from all IP addresses.
			SPECIFIC: Allow access only from IP addresses configured using the HOST IP ADDRESS items.
	HOST1 IP ADDRESS	0.0.0.0 to 255.255.255.255	Sets the address of a host that can connect with access permission when ALLOW HOST is set to
	HOST2 IP ADDRESS	_	SPECIFIC.
	HOST3 IP ADDRESS	-	
<snmp trap=""></snmp>	SNMP TRAP	ENABLE, <u>DISABLE</u>	Enables/disables SNMP traps.
N16			Selectable when SNMP is enabled. Fixed to DISABLE when SNMP is disabled.
	COMMUNITY		Displays the trap community name (ASCII code, up to 32 characters).
	HOST1		
	IP ADDRESS	0.0.0.0 to 255.255.255.255	Sets the trap notification address.
	VERSION	V1, V2C	Sets the trap version.
	HOST2		Same setting items and values as HOST1.
	HOST3		Same setting items and values as HOST1.
	SEND TEST TRAP	EXEC	Sends a test trap.

NETWORK			
Page name Page No.	Item	Set value	Description
<ping></ping>	PORT	<u>LAN-COM</u> , LAN1, LAN	2 Selects the PING transmission destination port.
N17			Note
			LAN1 and LAN2 are available only when HKCU-SFP50 is installed.
	IP ADDRESS	0.0.0.0 to 255.255.255	255 Sets the IP address of the PING transmit destination.
	PING		PING transmission. (Execute using EXEC)
STATISTICS			Displays the PING execution result.
	TRANSM PACKETS	··· ±	Number of transmitted packets.
	RECEIVE PACKETS	<u> </u>	Number of received packets.
	PACKET	LOSS <u>0</u> to 100 %	Packet loss rate.
	ROUND-1 MIN	TRIP 0.0 to 1000000.0 ms	Minimum round-trip delay time.
	ROUND-1 AVERAG	<u></u>	Average round-trip delay time.
	ROUND-1 MAX	TRIP <u>0.0</u> to 1000000.0 ms	Maximum round-trip delay time.

DIAGNOSIS Menu

DIAGNOSIS			
Page name Page No.	Item	Display	Description
<board status=""> D01</board>	VIF	OK, POWER ERROR, PLD ERROR, TEMP WARNING	VIF board self-diagnostics result
	ТХ	OK, POWER ERROR, PLD ERROR, TEMP WARNING	TX board self-diagnostics result
	NET	OK, POWER ERROR, PLD ERROR, TEMP WARNING	HKCU-SFP50 board (option) self-diagnostics result
	POWER ON HOUR METER	99999 H	Accumulated power-on time from power on.
	HOUR METER	99999 H	Accumulated power-on time
<serial number=""></serial>	MODEL NAME		Unit model name
D02	SERIAL NUMBER		Serial number
<version></version>	APPLICATION		Unit software version
D03	OS		Unit software version
	UPDATER		Unit software version
	SY		ROM version of SY PLD (SY board)
	VIF		ROM version of VIF PLD (VIF board)
	TX1(HIGH)		ROM version of TX1 PLD (HIGH) (HKCU-FB50 board option)
	TX1(ULTRA)		ROM version of TX1 PLD (ULTRA) (HKCU-FB50 board option)
	TX2		ROM version of TX2 PLD (HKCU-FB50 board option)
	NET1		ROM version of NET1 PLD (HKCU-SFP50 board option)
	NET2		ROM version of NET2 PLD (HKCU-SFP50 board option)
<camera diagnosis=""></camera>	NAME		Model name of connected camera
D04	ROM VERSION	X.XX	ROM version of camera

DIAGNOSIS			
Page name Page No.	Item	Display	Description
<power unit<br="">STATUS></power>	CAM POWER SUPPLY	ON, OFF	Displays the status of power supply to the camera.
D05	CABLE OPEN	OK, OPEN	Displays the cable open-circuit status.
	CABLE SHORT	OK, SHORT	Displays the cable short-circuit status.
	RCP POWER	OK, ERROR	Displays the status of power supply to the RCP.
<fan status=""> D06</fan>	PS FAN	OK, STOP	Displays the power supply unit fan operation status (HDCU5500/3500 only).
	PS REAR FAN	OK, STOP	Displays the power supply unit rear fan operation status.
	FRONT FAN1/2	OK, STOP	Displays the operating status of the front panel fans 1 and 2 (HDCU5000 only).
	FRONT FAN4	OK, STOP	Displays the operating status of the front panel fan 4 (HDCU5000 only).
	REAR FAN	OK, STOP	Displays the rear panel fan operation status (HDCU5500/3500 only).
	REAR FAN1/2	OK, STOP	Displays the operating status of rear panel fans 1 and 2 (HDCU5000 only).
	REAR FAN4	OK, STOP	Displays the operating status of rear panel fan 4 (HDCU5000 only).

Appendix

Precautions

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.

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 these parts is guaranteed. For details on parts replacement, contact your Sony representative.

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.

Operating environment

- Avoid high-temperature rooms and near sources of heat.
- Do not place in locations with strong electric or magnetic field.
- Dry location with good ventilation.
- · Avoid locations exposed to sunlight or strong lighting.

Avoid violent impacts

Dropping the unit, or otherwise imparting a violent shock to it, is likely to cause it to malfunction.

Do not cover with cloth

While the unit is in operation, do not cover it with a cloth or other material. This can cause the temperature to rise, leading to a malfunction.

After use

Set the POWER switch to the OFF position.

Care

If the body or panels of the unit become dirty, wipe them with a dry cloth. For severe dirt, use a soft cloth steeped in a small amount of neutral detergent, then wipe dry. Do not use volatile solvents such as alcohol or thinners, as these may damage the finish.

To prevent electromagnetic interference from portable communications devices

The use of portable telephones and other communications devices near this unit can result in malfunctions and interference with audio and video signals.

It is recommended that the portable communications devices near this unit be powered off.

Error Messages

When an error is detected in this unit or the camera, the ALARM indicator turns on and an error message is displayed on this unit.

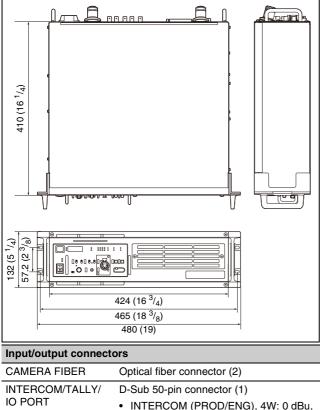
Error Messages	Description	
CCU:XXX POWER ERROR	Board power supply error (XXX	
	is the board name)	
CCU:XXX PLD ERROR	PLD error (XXX is the board name)	
CCU:XXX TEMP WARNING	Board temperature error (XXX is the board name)	
CCU:OPTICAL CONDITION OK	Light sensor level on CCU side	
CCU:OPTICAL CONDITION WARNING	dropped	
CCU:OPTICAL CONDITION CARE		
CCU:OPTICAL CONDITION ERROR		
CCU:PS FAN STOP	Power supply block FAN error	
CCU:PS CABLE SHORT	CAMERA connector optical fiber cable short-circuit connection error	
CCU:PS CABLE OPEN	CAMERA connector optical fiber cable open-circuit connection error	
CCU:PS RCP POWER SUPPLY ERROR	Remote control panel (connected to REMOTE connector) power supply error	
CCU:PS TEMP WARNING	Power supply unit temperature error	
CCU:PS POWER ERROR	Power supply unit input/output	
CCU:PS POWER WARNING	error	
CCU:FRONT FAN1 STOP	Front board fan 1 stopped	
CCU:PS REAR FAN STOP	Power supply block rear fan error	
CCU:GENLOCK ERROR	External reference sync error	
CCU:FORCE LEGACY	LEGACY is forcibly set for CNS MODE	
CCU:10FIELD-ID ERROR	10-field ID is not detected even though the 10F BB setting is On	
CCU:SET DATE&TIME	Invalid date	
CCU:LINK SPEED MISMATCH	The link speeds of LAN1 and LAN2 do not match.	

Specifications

HDCU5000

General	
Power requirements	100/120/220 to 240 V AC, 50/60 Hz
	(For details about switching the voltage, contact a Sony service or sales representative.)
Current consumption	7 A (max.)
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Mass	Approx. 19.5 kg (43 lb)
External dimensions (Units mm (inches))	

External dimensions (Unit: mm (inches))



IO PORT	 INTERCOM (PROD/ENG), 4W: 0 dBu, RTS: 0 dBu, CC: –14 dBu
	 PGM, 3 systems, 0 dBu/–20 dBu
	• TALLY (R, G, Y)
	• FLAG
RCP/CNU	8-pin multi-connector (1)
TRUNK	12-pin (1)
LAN COM	8-pin (1)
NETWORK TRUNK	8-pin (1)

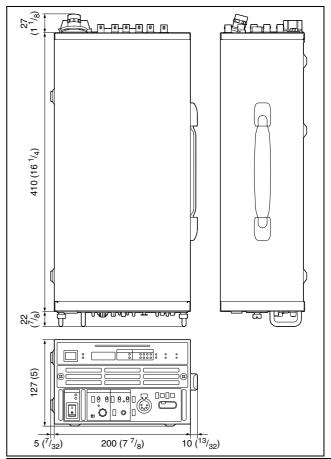
SDI I/O 1 to 4	3G/HD/SD SDI I/O
	BNC type (4)
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps
	SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps
	3G SDI/HD SDI/SD SDI, character signal selectable
REFERENCE IN/OUT	BNC type (2), loop-through output
	HD: SMPTE ST274, tri-level sync signal, 0.6 Vp-p, 75 ohms
	SD: Black burst (NTSC: 0.286 Vp-p,
	75 ohms/PAL: 0.3 Vp-p, 75 ohms) or NTSC 10F-BB
Input connectors	
AC IN	100/120/220 to 240 V (1)
	(For details about switching the voltage, contact a Sony service or sales representative.)
SDI RET 1 to 4	BNC type (4)
	3G SDI: SMPTE ST424/425, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 1.485 Gbps/ 1.4835 Gbps
	SD SDI: SMPTE 259M, 270 Mbps
PROMPTER 1	BNC type (2), loop-through output during
PROMPTER 2/ VBS-RET	1CH mode, terminated internally at 75 ohms during 2CH mode, analog signal, 1.0 Vp-p, 75 ohms
Output connectors	
AUDIO OUT CH1, CH2	XLR 3-pin, male (2), 0 dBu/–20 dBu/ +4 dBu
CHARACTER/SYNC	BNC type (1), VBS, 1 Vp-p, 75 ohms
AES/EBU	BNC type (1), AES/EBU format
SDI OUT 1 to 4	3G/HD/SD SDI OUTPUT
	BNC type (4)
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p,
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms,
UHD SDI A, B, E, F	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps 3G SDI/HD SDI/SD SDI, character signal
UHD SDI A, B, E, F	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps 3G SDI/HD SDI/SD SDI, character signal selectable
UHD SDI A, B, E, F	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps 3G SDI/HD SDI/SD SDI, character signal selectable 12G/6G/3G/HD SDI OUTPUT BNC type (2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps
UHD SDI A, B, E, F	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps 3G SDI/HD SDI/SD SDI, character signal selectable 12G/6G/3G/HD SDI OUTPUT BNC type (2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps 6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/5.934 Gbps
UHD SDI A, B, E, F	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps 3G SDI/HD SDI/SD SDI, character signal selectable 12G/6G/3G/HD SDI OUTPUT BNC type (2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps 6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/5.934 Gbps 3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/
UHD SDI A, B, E, F	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps 3G SDI/HD SDI/SD SDI, character signal selectable 12G/6G/3G/HD SDI OUTPUT BNC type (2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps 6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/5.934 Gbps 3G SDI: SMPTE ST424/425 Level-A/B,

UHD SDI C, D, G, H	12G/6G/3G/HD SDI I/O
	BNC type (2)
	12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps
	6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/5.934 Gbps
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps
Supplied accessories	3
Number plates (1 set)	
Before Using This Unit	. (1)
Operating Instructions	(CD-ROM) (1)
Optional accessories	
HKCU-SDI50 12G-SDI	Extension Kit
HKCU-SFP50 ST 2110) Interface Kit
HKCU-SM50 Single M	ode Fiber Connector Kit
HZCU-CNFG50 Config Control Software	
HZCU-SNMP50 SNMP Agent Software	
HZCU-UHD35 4K/HDF	Processor Software
United States and Can Other areas: Power co	ada: Power cord set (1-551-812-XX) rd set (1-782-929-XX)
United States and Can Other areas: Plug hold	ada: Plug holder B (2-990-242-01) ler C (3-613-640-01)
CCA-5-3 Connection C Cable (10 meters)	Cable (3 meters), CCA-5-10 Connection
Service Manual	
Related devices	
HDC5000/5500 Color (Camera
HDC2000 HD Color Ca	amera
HDC2580/2500/2400/1	1700 HD Color Camera
BCP-3000/1000 series	Remote Control Panel

HDCU5500

General	
Power requirements	100 V to 240 V AC, 50/60 Hz
Current consumption	4.5 A (max.)
Operating temperature	–10 °C to +40 °C (14 °F to 104 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Mass	Approx. 6.4 kg (14 lb 1.8 oz)

External dimensions (Unit: mm (inches))



Input/output connectors

CAMERA FIBER	Optical fiber connector (1)
INTERCOM/TALLY/ IO PORT	D-Sub 50-pin connector (1) • INTERCOM (PROD/ENG), 4W: 0 dBu,
	RTS: 0 dBu, CC: –14 dBu
	 PGM, 3 systems, 0 dBu/–20 dBu
	• TALLY (R, G, Y)
	• FLAG
RCP/CNU	8-pin multi-connector (1)
TRUNK	12-pin (1)
LAN COM	8-pin (1)
NETWORK TRUNK	8-pin (1)
SDI I/O 1 to 4	3G/HD/SD SDI I/O
	BNC type (4)
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps
	SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps
	3G SDI/HD SDI/SD SDI, character signal selectable
REFERENCE IN/OUT	BNC type (2), loop-through output
	HD: SMPTE ST274, tri-level sync signal, 0.6 Vp-p, 75 ohms
	SD: Black burst (NTSC: 0.286 Vp-p, 75 ohms/PAL: 0.3 Vp-p, 75 ohms) or NTSC 10F-BB

Input connectors	
AC IN	100 V to 240 V AC (1)
SDI RET 1 to 4	BNC type (4)
	3G SDI: SMPTE ST424/425, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 1.485 Gbps/ 1.4835 Gbps
	SD SDI: SMPTE 259M, 270 Mbps
PROMPTER 1	BNC type (2), loop-through output during
PROMPTER 2/	1CH mode, terminated internally at
VBS-RET	75 ohms during 2CH mode, analog signal, 1.0 Vp-p, 75 ohms
Output connectors	
AUDIO OUT CH1, CH2	XLR 3-pin, male (2), 0 dBu/–20 dBu/ +4 dBu
CHARACTER/SYNC,	BNC type (1), VBS, 1 Vp-p, 75 ohms
AES/EBU	AES/EBU format
	VBS and AES/EBU selectable
SDI OUT 1 to 4	3G/HD/SD SDI OUTPUT
· · · ·	BNC type (4)
	3G SDI: SMPTE ST424/425 Level-A/B,
	0.8 Vp-p, 75 ohms, 2.970 Gbps/
	2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps
	SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps
	3G SDI/HD SDI/SD SDI, character signal selectable
UHD SDI A, B	12G/6G/3G/HD SDI OUTPUT
	BNC type (2)
	12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps
	6G SDI: SMPTE ST2081, 0.8 Vp-p,
	75 ohms, 5.940 Gbps/5.934 Gbps 3G SDI: SMPTE ST424/425 Level-A/B,
	0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps
UHD SDI C, D	12G/6G/3G/HD SDI I/O
	BNC type (2)
	12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps
	6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/5.934 Gbps
	3G SDI: SMPTE ST424/425 Level-A/B.
	0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps
Supplied accessories	;
Number plates (1 set)	
Before Using This Unit	(1)
Operating Instructions	(CD-ROM) (1)
Optional accessories	· · · · · · · · · · · · · · · · · · ·
HKCU-SFP50 ST 2110	
HKCU-SM50 Single M	ode Fiber Connector Kit
HZCU-CNFG50 Config	
HZCU-SNMP50 SNMF	
HZCU-UHD35 4K/HDF	•
	ada: Power cord set (1-551-812-XX)
Other areas: Power co	

United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)

CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)

RMM-301 Rack Mount Adaptor

Service Manual

Related devices

HDC5000/5500 Color Camera

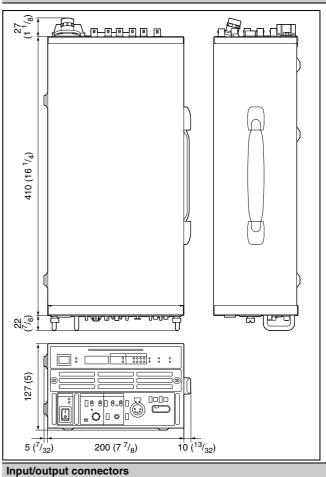
RCP-3000/1000 series Remote Control Panel

MSU-1000 series Master Setup Unit

HDCU3500

General	
Power requirements	100 V to 240 V AC, 50/60 Hz
Current consumption	4.5 A (max.)
Operating temperature	–10 °C to +40 °C (14 °F to 104 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Mass	Approx. 6.3 kg (13 lb 14 oz)
	<i>a</i>

External dimensions (Unit: mm (inches))



Optical fiber connector (1)
D-Sub 50-pin connector (1)
 INTERCOM (PROD/ENG), 4W: 0 dBu, RTS: 0 dBu, CC: -14 dBu
 PGM, 3 systems, 0 dBu/–20 dBu
• TALLY (R, G, Y)
• FLAG
8-pin multi-connector (1)

TRUNK	12-pin (1)
LAN COM	8-pin (1)
NETWORK TRUNK	8-pin (1)
SDI I/O 1 to 4	3G/HD/SD SDI I/O
	BNC type (4)
	3G SDI: SMPTE ST424/425 Level-A/B,
	0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p,
	75 ohms, 1.485 Gbps/1.4835 Gbps
	SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps
	3G SDI/HD SDI/SD SDI, character signal selectable
REFERENCE IN/OUT	BNC type (2), loop-through output
	HD: SMPTE ST274, tri-level sync signal, 0.6 Vp-p, 75 ohms
	SD: Black burst (NTSC: 0.286 Vp-p, 75 ohms/PAL: 0.3 Vp-p, 75 ohms) or NTSC 10F-BB
Input connectors	
AC IN	100 V to 240 V AC (1)
SDI RET 1 to 4	BNC type (4)
	3G SDI: SMPTE ST424/425, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 1.485 Gbps/
	1.4835 Gbps SD SDI: SMPTE 259M, 270 Mbps
PROMPTER 1	BNC type (2), loop-through output during
PROMPTER 2/	1CH mode, terminated internally at
VBS-RET	75 ohms during 2CH mode, analog signal, 1.0 Vp-p, 75 ohms
Output connectors	
AUDIO OUT CH1, CH2	XLR 3-pin, male (2), 0 dBu/–20 dBu/ +4 dBu
CHARACTER /	BNC type (1), VBS, 1 Vp-p, 75 ohms
AES/EBU /	AES/EBU format
SYNC	VBS and AES/EBU selectable
SDI OUT 1 to 4	3G/HD/SD SDI OUTPUT
	BNC type (4)
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps
	HD SDI: SMPTE ST292, 0.8 Vp-p,
	75 ohms, 1.485 Gbps/1.4835 Gbps
	SD SDI: SMPTE 259M, 0.8 Vp-p, 75 ohms, 270 Mbps
	3G SDI/HD SDI/SD SDI, character signal selectable
UHD SDI A, B	12G/3G/HD SDI OUTPUT
	BNC type (2)
	12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps
	* 12G SDI can be selected by installing the
	HZUU-UHU35
	HZCU-UHD35. 3G SDI: SMPTE ST424/425 Level-A/B,
	3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/
	3G SDI: SMPTE ST424/425 Level-A/B,

UHD SDI C, D 12G/3G/HD SDI I/O BNC type (2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.888 Gbps * 12G SDI can be selected by installing the HZCU-UHD35. 3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps Supplied accessories Number plates (1 set) Before Using This Unit (1) Operating Instructions (CD-ROM) (1) Optional accessories HKCU-SFP50 ST 2110 Interface Kit HKCU-SFP50 ST 2110 Interface Kit HKCU-FB50 UHB Transmission Board Kit HZCU-UNFG50 Config Control Software HZCU-UHD35 4K/HDR Processor Software HZCU-UHD35 4K/HDR Processor Software United States and Canada: Power cord set (1-551-812-XX) Other areas: Plug holder C (3-613-640-01) CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters) RMM-301 Rack Mount Adaptor Service Manual Related devices HDC3500 Color Camera HDC2000 HD Color Camera HDC2000 HD Color Camera HDC2000 HD Color Camera HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel MSU-1000 series Master Setup Unit		
12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps * 12G SDI can be selected by installing the HZCU-UHD35. 3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps Supplied accessories Number plates (1 set) Before Using This Unit (1) Operating Instructions (CD-ROM) (1) Optional accessories HKCU-SFP50 ST 2110 Interface Kit HKCU-SM50 Single Mode Fiber Connector Kit HKCU-FB50 UHB Transmission Board Kit HZCU-UNFG50 Config Control Software HZCU-UHD35 4K/HDR Processor Software United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX) United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01) CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters) RMM-301 Rack Mount Adaptor Service Manual Related devices HDC3500 Color Camera HDC2580/2500/2400/1700 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera	UHD SDI C, D	12G/3G/HD SDI I/O
75 ohms, 11.88 Gbps/11.868 Gbps * 12G SDI can be selected by installing the HZCU-UHD35. 3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps Supplied accessories Number plates (1 set) Before Using This Unit (1) Operating Instructions (CD-ROM) (1) Optional accessories HKCU-SFP50 ST 2110 Interface Kit HKCU-SFD50 ST 2110 Interface Kit HKCU-SFD50 UHB Transmission Board Kit HZCU-CNFG50 Config Control Software HZCU-UHD35 4K/HDR Processor Software HZCU-UHD35 4K/HDR Processor Software United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX) United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01) CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters) RMM-301 Rack Mount Adaptor Service Manual Pelated devices HDC3500 Color Camera HDC3100 Fiber Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel		BNC type (2)
HZCU-UHD35.3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/ 2.967 GbpsHD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 GbpsSupplied accessoriesNumber plates (1 set)Before Using This Unit (1)Operating Instructions (CD-ROM) (1)Optional accessoriesHKCU-SFP50 ST 2110 Interface KitHKCU-SF50 ST 2110 Interface KitHKCU-FB50 UHB Transmission Board KitHZCU-ONFG50 Config Control SoftwareHZCU-UHD35 4K/HDR Processor SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel		
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75 ohms, 1.485 Gbps/1.4835 Gbps Supplied accessories Number plates (1 set) Before Using This Unit (1) Operating Instructions (CD-ROM) (1) Optional accessories HKCU-SFP50 ST 2110 Interface Kit HKCU-SFD50 ST 2110 Interface Kit HKCU-SFD50 ST 2110 Interface Kit HKCU-SFD50 SI gle Mode Fiber Connector Kit HKCU-SFG50 Config Control Software HZCU-CNFG50 Config Control Software HZCU-SNMP50 SNMP Agent Software United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX) United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01) CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters) RMM-301 Rack Mount Adaptor Service Manual Related devices HDC3500 Color Camera HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel		0.8 Vp-p, 75 ohms, 2.970 Gbps/
Number plates (1 set)Before Using This Unit (1)Operating Instructions (CD-ROM) (1)Optional accessoriesHKCU-SFP50 ST 2110 Interface KitHKCU-SFP50 ST 2110 Interface KitHKCU-SM50 Single Mode Fiber Connector KitHKCU-FB50 UHB Transmission Board KitHZCU-CNFG50 Config Control SoftwareHZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX)Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01)Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC2500/2400/1700 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel		
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Operating Instructions (CD-ROM) (1)Optional accessoriesHKCU-SFP50 ST 2110 Interface KitHKCU-SFP50 ST 2110 Interface KitHKCU-SM50 Single Mode Fiber Connector KitHKCU-FB50 UHB Transmission Board KitHZCU-CNFG50 Config Control SoftwareHZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX)Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01)Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3500 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	Number plates (1 set	t)
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HKCU-SFP50 ST 2110 Interface KitHKCU-SM50 Single Mode Fiber Connector KitHKCU-FB50 UHB Transmission Board KitHZCU-CNFG50 Config Control SoftwareHZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX)Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01)Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 ConnectionCable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	Operating Instruction	is (CD-ROM) (1)
HKCU-SM50 Single Mode Fiber Connector KitHKCU-FB50 UHB Transmission Board KitHZCU-CNFG50 Config Control SoftwareHZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX)Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01)Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 ConnectionCable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	Optional accessorie	es
HKCU-FB50 UHB Transmission Board KitHZCU-CNFG50 Config Control SoftwareHZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX)Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01)Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 ConnectionCable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	HKCU-SFP50 ST 2110 Interface Kit	
HZCU-CNFG50 Config Control SoftwareHZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC2300 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	HKCU-SM50 Single Mode Fiber Connector Kit	
HZCU-SNMP50 SNMP Agent SoftwareHZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	HKCU-FB50 UHB Tr	ansmission Board Kit
HZCU-UHD35 4K/HDR Processor SoftwareUnited States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	HZCU-CNFG50 Config Control Software	
United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX) United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01) CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters) RMM-301 Rack Mount Adaptor Service Manual Related devices HDC3500 Color Camera HDC3100 Fiber Color Camera HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel	HZCU-SNMP50 SNM	IP Agent Software
Other areas: Power cord set (1-782-929-XX)United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	HZCU-UHD35 4K/HDR Processor Software	
Other areas: Plug holder C (3-613-640-01)CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel		
Cable (10 meters)RMM-301 Rack Mount AdaptorService ManualRelated devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel		o ()
Service Manual Related devices HDC3500 Color Camera HDC3100 Fiber Color Camera HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel		Cable (3 meters), CCA-5-10 Connection
Related devicesHDC3500 Color CameraHDC3100 Fiber Color CameraHDC2000 HD Color CameraHDC2580/2500/2400/1700 HD Color CameraRCP-3000/1000 series Remote Control Panel	RMM-301 Rack Mou	nt Adaptor
HDC3500 Color Camera HDC3100 Fiber Color Camera HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel	Service Manual	
HDC3100 Fiber Color Camera HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel	Related devices	
HDC2000 HD Color Camera HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel	HDC3500 Color Camera	
HDC2580/2500/2400/1700 HD Color Camera RCP-3000/1000 series Remote Control Panel	HDC3100 Fiber Color Camera	
RCP-3000/1000 series Remote Control Panel	HDC2000 HD Color Camera	
	HDC2580/2500/2400)/1700 HD Color Camera
MSU-1000 series Master Setup Unit	RCP-3000/1000 series Remote Control Panel	
	MSU-1000 series Ma	aster Setup Unit

HKCU-FB50

General			
Power consumption	40 W		
Operating temperature	–10 °C to +40 °C (14 °F to 104 °F)		
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)		
Dimensions (w/h/d, excluding protrusions)	$310 \times 112 \times 39$ mm (12 $^{1}/_{4} \times 4 {}^{1}/_{2} \times 1 {}^{9}/_{16}$ inches)		
Mass	TX board: Approx. 0.6 kg (1 lb 5.2 oz)		
Input/output connectors			
Connectors	BNC		
Number of lines	4		
Signal type	SMPTE ST2082/ST2081/ST425/ST424/ ST292		
Supplied accessories			
UHB label (2)			
Operating Instructions	Operating Instructions (1)		

HKCU-SDI50

General		
Power consumption	5 W	
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)	
Storage temperature	–20 °C to +60 °C (–4 °F to 140 °F)	
Dimensions (w/h/d, excluding protrusions)	$21 \times 57 \times 230 \text{ mm}$ $({}^{27}/_{32} \times 2 {}^{1}/_{4} \times 9 {}^{1}/_{8} \text{ inches})$	
Mass	HIF board: Approx. 150 g (5.3 oz)	
Output connectors		
HIF board: BNC type (4)		
12G-SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.880 Gbps/ 11.868 Gbps		
6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/ 5.934 Gbps		
3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/2.967 Gbps		
HD SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/ 1.4835 Gbps		
Supplied accessories		
30-pin cable (2)		
Screws +2.6×5 (4)		

Operating Instructions (1)

HKCU-SFP50

General		
Power consumption	43 W	
Operating temperature	–10 °C to +40 °C (14 °F to 104 °F)	
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)	
Dimensions (w/h/d, excluding protrusions)	$258 \times 116 \times 41 \text{ mm}$ (10 $^{1}/_{4} \times 4 ^{5}/_{8} \times 1 ^{5}/_{8} \text{ inches}$)	
Mass	Approx. 0.5 kg (1 lb 1.6 oz)	
I/O connectors		
Connectors	SFP+, SFP28	
Number of lines	2	
Signal type	10GBASE-**, 25GBase-** (depending on SFP+/SFP28 transceiver module)	
	For information about the supported SFP+ and SFP28 transceiver modules (e.g. OTM-10GSR1), contact your Sony sales or service representative.	
Supplied accessories		
Air divider plate (1)		
Rivet (3)		
60-pin harness (2)		
20-pin harness (1)		
Power supply harness (1)		
Screws M3×8 (6)		
Screws M2.6×5 (2)		
Bracket (1)		
Cover sheet (2)		
Operating Instructions (1)		

HKCU-SM50

General		
Power consumption	1.2 W	
Operating	-10 °C to +40 °C (14 °F to 104 °F)	
temperature		
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)	
Dimensions (w/h/d,	66 × 67 × 30 mm	
excluding protrusions)	$(2 \frac{5}{8} \times 2 \frac{3}{4} \times 1 \frac{3}{16} \text{ inches})$	
Mass	Approx. 0.1 kg (3.5 oz)	
Input/output connectors		
ST connectors for single-mode fiber cables (2)		
Supplied accessories		
SC-LC optical fiber cable (1)		
Optical module (1)		
Screws M3×8 (1)		
Bracket (1)		
Cover sheet (1)		
Operating Instructions	(1)	

Design and specifications are subject to change without notice.

Notes

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