

## HDCU-5500

IP-ready Camera Control Unit (CCU) for HDC-5500 4K/HD system camera



**NETWORKED LIVE**

### Overview

The HDCU-5500 Camera Control Unit is designed for operation with the Sony HDC-5500 4K/HD system camera. It provides interfaces to external equipment and power supply to the camera in a compact, portable half rack width 3U form factor that's ideal for OB production environments.

Offering a 12G-SDI and 4K output interface as standard, the CCU also provides a pathway for IP and 12G-SDI capabilities as an option, including IP on HDC Series optical fibre studio cameras.

Combined with the HDC-5500 camera, the HDCU-5500 enables two 4K signal lines of ultra-high bit-rate (UHB) optical fibre transmission, supporting shooting in various capture formats with an additional 4K video trunk line.

IP Tally support (TSL UMD v5.0) is featured as standard, while CCU menu settings can be conveniently adjusted remotely via a network.

\*1 For more details on the JT-NM Tested program in March 2020 and test results, please go to [https://jt-nm.org/jt-nm\\_tested](https://jt-nm.org/jt-nm_tested).

\*2 For more details on the JT-NM Tested program at IBC 2019 and its test results please see [http://jt-nm.org/jt-nm\\_tested](http://jt-nm.org/jt-nm_tested).

### Features

#### **Compact body, powerful capability**

This CCU realize 4K and IP in half rack size compact body.

#### **Ready for IP**

The optional HKCU-SFP50 IP Interface Kit adds ST 2110 4K/HD IP video/audio and IP intercam capabilities.

#### **High quality long distance signal transmission**

Combined with the optional HKCU-SM50 interface kit, the compact HDCU-5500 can be directly connected using 3G Single Mode Fibre (SMF) for long distance transmission up to 10km, making it ideal for space-limited operations such as OB trucks.

#### **Ultra High Bitrate transmission**

Newly developed UHB (Ultra High Bitrate) transmission realize outstanding 4K picture quality and 4K TRUNK/4K PROMPTER transmission in single hybrid fiber cable. This allows to enlarge the 4K system expansion in simple system configuration.

#### **MENU setting from web browser**

The CCU support menu control from web browser. The status monitoring of multiple CCU, setting file import/export and remote firmware update enhance the efficiency and convenience of the operation.

## Recording and real-time network transfer

With the recording option HKCU-REC55, the HDCU-5500 can record the live feed inside CCU. The file can be transferred to USB SSD or network storage in real-time during recording. Therefore, when the shooting operation is finished, the file is already transferred to portable SSD or NAS.

## Specifications

| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Weight                  | Approx. 6.4 kg (14 lb 1.8 oz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Input/output connectors |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CAMERA                  | Optical fiber connector (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| INTERCOM/TALLY/IO PORT  | D-sub 50-pin connector (x1)<br>INTERCOM (PROD/ENG), 4 W: 0 dBu, RTS: 0 dBu, CC: -14 dBu<br>PGM, 2 systems, 0dBu/-20dBu<br>TALLY (R, G, Y)<br>FLAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RCP / CNU               | 8-pin multi-connector (x1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TRUNK                   | 12-pin(x1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| LAN-COM                 | 8-pin (x1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NETWORK TRUNK           | 8-pin (x1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UHD SDI                 | UHD SDI A, B :<br>12G / 6G / 3G / HD SDI OUTPUT, BNC (x2)<br>12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 Ω, 11.88 Gbps / 11.868 Gbps<br>6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 Ω, 5.940 Gbps / 5.934 Gbps<br>3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps / 2.967 Gbps<br>HD SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps / 1.4835 Gbps<br><br>UHD SDI C, D :<br>12G / 6G / 3G / HD SDI I/O, BNC type (2)<br>12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 Ω, 11.88 Gbps / 11.868 Gbps<br>6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 Ω, 5.940 Gbps / 5.934 Gbps<br>3G SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps / 2.967 Gbps<br>HD SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps / 1.4835 Gbps |

## Input/output connectors

|                                  |                                                                                                                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDI OUT                          | SDI OUT 1 to 4 :<br>3G/HD/SD SDI OUTPUT<br>BNC (x4)<br>3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 $\Omega$ , 2.970 Gbps/2.967 Gbps<br>HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 $\Omega$ , 1.485 Gbps/1.4835 Gbps<br>SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 $\Omega$ , 270 Mbps |
| SDI I/O                          | SDI I/O 1 to 4 :<br>3G/HD/SD SDI I/O<br>BNC (x4)<br>3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 $\Omega$ , 2.970 Gbps/2.967 Gbps<br>HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 $\Omega$ , 1.485 Gbps/1.4835 Gbps<br>SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 $\Omega$ , 270Mbps     |
| SDI RET                          | SDI RET 1 to 4 :<br>BNC (x4)<br>3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps<br>HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps<br>SD-SDI: SMPTE ST259, 270 Mbps                                                                                                          |
| REFERENCE IN/OUT                 | BNC (x2), loop-through output,<br>HD: 3-level sync, 0.6 Vp-p, 75 $\Omega$ ,<br>SD: 2-level sync, 0.3 Vp-p, 75 $\Omega$                                                                                                                                                  |
| PROMPTER 1<br>PROMPTER 2/VBS-RET | BNC (x2), loop-through output during 1CH mode, terminate internally at 75 $\Omega$ during 2CH mode, analog signal, 1.0 Vp-p, 75 $\Omega$                                                                                                                                |
| AUDIO OUT                        | AUDIO OUT CH1, CH2 :<br>XLR 3-pin, male (x2), 0 dBu/ -20 dBu /+4 dBu                                                                                                                                                                                                    |
| CHARACTER / AES / EBU / SYNC     | BNC (x1), VBS: 1 Vp-p, 75 $\Omega$ ,<br>AES/EBU: 0.5 Vp-p, 75 $\Omega$ ,<br>HD: 3-level sync, 0.6 Vp-p, 75 $\Omega$ ,<br>SD: 2-level sync, 0.3 Vp-p, 75 $\Omega$                                                                                                        |
| AC IN                            | AC 100 V to 240 V (x1)                                                                                                                                                                                                                                                  |

## Supplied accessories

|                      |                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------|
| Supplied accessories | Number plates (1 set)<br>Before Using this Unit (1)<br>Operating Instructions (CD-ROM) (1) |
|----------------------|--------------------------------------------------------------------------------------------|

Related products



**HDC-5500**

2/3-type 4K 3-CMOS sensor portable system camera with 4K 4x HFR capability



**HZCU-SNMP50**

SNMP Agent license for HDCU-5500, 3500, 3170 and HDCU-3100 camera control unit



**HZCU-CNFG50**

ember+ protocol license for HDCU-5500, 3500, 3170 and 3100 camera control units



**HDVF-EL75**

7.4-inch OLED Viewfinder for portable cameras



**HDVF-EL30**

0.7-type Full HD OLED viewfinder with 3.5-type sub-LCD display. Compatible with F65, 4K/HD system cameras, and shoulder-type HD camcorders.



**HKCU-REC55**

Recording option for HDCU-5500 and HDCU-3500 CCU



**PWA-RCT1**

Recording Control Software for PWS-4500, HKCU-REC55 and HKCU-REC50



**HZCU-UHDR50**

4K Recording License for HDCU-5000/5500/3500



**PWAL-RCT50**

CCU recording control option for PWA-RCT1



**HZCU-DHR50**

DNxHD Codec License for HDCU-5000, HDCU-5500 and HDCU-3500 camera control units



**RCP-3500**

Remote-control panel for HDC/HSC/HXC series cameras



**RCP-3501**

Remote-control panel for HDC/HSC/HXC series cameras



**MSU-3000**

Master setup unit, multi camera remote control panel for system cameras (horizontal type)



**MSU-3500**

Master setup unit, multi camera remote control panel for system cameras (vertical type)



**HDCE-TX50**

IP camera extension adaptor for remote live production (transmitter)



**HDCE-RX50**

IP CCU extension adaptor for remote live production (receiver)



**HDC-F5500**

Super 35mm 4K CMOS Camera System



**HDLA-3501**

Large Lens Adaptor



**CNA-2**

Camera Control Network Adapter

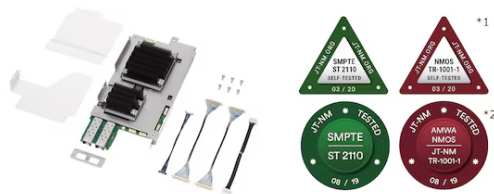


**HDC-5500R**

2/3-type 4K 3-CMOS sensor portable system camera with 4K 4x HFR capability



NETWORKED **LIVE**



© 2004 - 2026 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

Export PDF : October 9 2026