

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, which is 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 fiber studio cameras.

Combined with the HDC-5500 camera, the HDCU-5500 enables two 4K signal lines of ultra-high bit-rate (UHB) optical fiber 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.

*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.

Features

Compact body, powerful capability

This CCU realizes 4K and IP in a 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 Fiber (SMF) for long distance transmission up to 6.21 mi, making it ideal for space-limited operations such as OB trucks.

Ultra-High Bitrate transmission

Newly developed UHB (Ultra-High Bitrate) transmission realizes outstanding 4K picture quality and 4K TRUNK/4K PROMPTER transmission in a single hybrid fiber cable. This allows the 4K system to be expanded in a simple system configuration.

MENU setting from web browser

The CCU supports menu control from a web browser. The status monitoring of multiple CCUs, setting file import/export and remote firmware updates 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 a 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) INTERCOM (PROD/ENG), 4 W: 0 dBu, RTS: 0 dBu, CC: -14 dBu PGM, 2 systems, 0dBu/-20dBu TALLY (R, G, Y) 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: 12G/6G/3G/HD-SDI OUTPUT, BNC (x2) 12G-SDI: SMPTE ST2082, 0.8 Vp-p, 75 Ω, 11.88 Gbps/11.868 Gbps 6G-SDI: SMPTE ST2081, 0.8 Vp-p, 75 Ω, 5.940 Gbps/5.934 Gbps 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 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 Ω, 11.88 Gbps/11.868 Gbps 6G-SDI: SMPTE ST2081, 0.8 Vp-p, 75 Ω, 5.940 Gbps/5.934 Gbps 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps 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: 3G/HD/SD-SDI OUTPUT BNC (x4) 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω , 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω , 1.485 Gbps/1.4835 Gbps SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 Ω , 270 Mbps
SDI I/O	SDI I/O 1 to 4: 3G/HD/SD-SDI I/O BNC (x4) 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω , 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω , 1.485 Gbps/1.4835 Gbps SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 Ω , 270 Mbps
SDI RET	SDI RET 1 to 4: BNC (x4) 3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps SD-SDI: SMPTE ST259, 270 Mbps
REFERENCE IN/OUT	BNC (x2), loop-through output, HD: 3-level sync, 0.6 Vp-p, 75 Ω , SD: 2-level sync, 0.3 Vp-p, 75 Ω
PROMPTER 1 PROMPTER 2/VBS-RET	BNC (x2), loop-through output during 1CH mode, terminate internally at 75 Ω during 2CH mode, analog signal, 1.0 Vp-p, 75 Ω
AUDIO OUT	AUDIO OUT CH1, CH2: XLR 3-pin, male (x2), 0 dBu/-20 dBu/+4 dBu
CHARACTER / AES / EBU / SYNC	BNC (x1), VBS: 1 Vp-p, 75 Ω , AES/EBU: 0.5 Vp-p, 75 Ω , HD: 3-level sync, 0.6 Vp-p, 75 Ω , SD: 2-level sync, 0.3 Vp-p, 75 Ω
AC IN	AC 100 V to 240 V (x1)

Supplied Accessories

Supplied accessories	Number plates (1 set) Before Using this Unit (1) Operating Instructions (CD-ROM) (1)
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HDC-5500

High performance three 2/3-inch 4K CMOS sensor portable system camera with direct 4K output



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

OLED 0.7-inch color Full HD viewfinder with 3.5-inch sub-LCD



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 35-mm 4K CMOS Camera System



HDLA-3501

Large Lens Adaptor



CNA-2

Camera Control Network Adapter



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