

HDCU-5500

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



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.

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 transfered 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)
Mass	Approx. 6.4 kg (14 lb 1.8 oz)

Input / output connectors

CAMERA FIBER	Optical fiber connector (x1)
CAMERA TRIAX	No
INTERCOM/TALLY/IO PORT	D-sub 50-pin connector (x1), INTERCOM (PROD/ENG), 4 W: 0 dBu, RTS: 0 dBu, CC: -14 dBu, PGM, 3 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)
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
REFERENCE IN/OUT	BNC (x2), loop-through output, HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω, SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/PAL: 0.3 Vp-p, 75 Ω) or NTSC 10F-BB

Input connectors

AC IN	AC 100 V to 240 V (x1)
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
PROMPTER and 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

Output connectors

AUDIO OUT CH1, CH2	XLR 3-pin, male (x2), 0 dBu/ -20 dBu /+4 dBu
CHARACTER / ABS / EBU	BNC (x1), VBS, 1 Vp-p, 75 Ω AES/EBU format VBS/HD and AES/EBU selectable

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, 3G-SDI / HD-SDI / SD-SDI, character signal selectable
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

Supplied accessories

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

Optional accessories

Optional accessories	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)
----------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Related products



HZCU-DHR50
DNxHD Codec License for HDCU-5000, HDCU-5500



HDC-5500
High performance three 2/3-inch 4K CMOS sensor portable system



MSU-3000
Master setup unit, multi camera remote control panel for system



PWA-RCT1
Recording Control Software for PWS-4500, HKCU-REC55 and HKCU-REC50

and HDCU-3500
camera control
units



RCP-3501

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

camera with direct
4K output



RCP-3500

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

cameras (horizontal
type)



HZCU- UHDR50

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



PWAL- RCT50

CCU recording
control option for
PWA-RCT1



HDVF-EL30

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



HDVF-EL75

7.4-inch OLED
Viewfinder for
portable cameras



BVM- HX310 v1.1

TRIMASTER HX™
Professional Master
Monitor



HZCU- SNMP50

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



HZCU- CNFG50

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



HKCU- REC55

Recording option for
HDCU-5500 and
HDCU-3500 CCU



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)

Gallery

