SONY

HDCU-3500

IP-ready Camera Control Unit (CCU) for HDC-3500 4K/HD system camera

NETWORKED **LIVE**

Overview

The HDCU-3500 Camera Control Unit is designed for operation with the Sony HDC-3500 and HDC-3500 4K/HD system cameras. 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.

A 12G-SDI and 4K output is available via an optional software license HZCU-UHD35. The CCU also provides a pathway for IP operation with HDC Series optical fibre studio cameras.

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 realize 4K and IP in half lack 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-3500 can be directly connected to the HDC-3500 or HDC-3100 using 3G Single Mode Fibre (SMF) for long distance transmission up to 10 km, making it ideal for space-limited operations such as OB trucks.

Wide range of HDC camera support
HDCU-3500 support not only HDC-3500, HDC-3100 but existing HDC-2500 series natively. Moreover, with hardware options, HDCU-3500 is capable of connecting to HDC-5500, the flagship 4K camera.

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-3500 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. 6.3 kg (13 lb 14 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), 0dBu / −20 dBu / +4 dBu
CHARACTER / ABS /	NC (x1), VBS, 1 Vp-p, 75 Ω AES/EBU format

EBU	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 / 3G / HD SDI OUTPUT, BNC (x2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 Ω, 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 Ω, 2.970 Gbps / 2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps / 1.4835 Gbps	
	12G / 3G / HD SDI I / O, BNC (x2) 12G SDI: SMPTE ST2082, 0.8 Vp-p, 75 Ω, 11.88 Gbps / 11.868 Gbps * 12G SDI can be selected by	

UHD SDI C, D	installing the HZCU-UHD35. 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	Number plates (1 set), Before Using this Unit (1), Operating Instructions (CD-ROM) (1)	
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

HDC-3500

Three 2/3-inch 4K
CMOS sensors
portable system

HDC-3170

Three 2/3-inch CMOS
sensors portable
system camera for

HDC-3100

Three 2/3-inch CMOS
sensors portable
system camera for

HZCU-SNMP50

SNMP Agent license

camera for fibre operation

triax operation

fibre operation

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

HDC-2500

3G double-speed multi format HD system camera

HDC-2400

3G multi format HD system camera

HDC-1700

Multi format HD portable system camera

HZCU-CNFG50

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

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

PWS-110NM1

IP Live System Manager Station

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-UHD35

4K HDR software license for HDCU-3500

HZCU-DHR50

DNxHD Codec License for HDCU-5000, HDCU-5500 and

HDCE-TX30

IP camera extension adaptor for remote live production

RCP-3500

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

RCP-3501

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

HDCU-3500 camera
control units

(transmitter)

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)

CNA-2

Camera Control
Network Adapter

Gallery