

## HDCU-3500

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



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### 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](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 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 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. 6.3 kg (13 lb 14 oz)

### Input/output connectors

CAMERA	Optical fiber connector (x1)
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)
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 * 12G / 6G 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  UHD SDI C, D: 12G / 6G / 3G / HD SDI I / O, 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 * 12G / 6G 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

## 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 $\Omega$ , 2.970 Gbps / 2.967 Gbps, HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 $\Omega$ , 1.485 Gbps / 1.4835 Gbps SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 $\Omega$ , 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 $\Omega$ , 2.970 Gbps / 2.967 Gbps, HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 $\Omega$ , 1.485 Gbps / 1.4835 Gbps SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 $\Omega$ , 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 $\Omega$ , SD: 2-level sync, 0.3 Vp-p, 75 $\Omega$
PROMPTER 1 PROMPTER 2/VBS-RET	BNC (x2), terminate internally at 75 $\Omega$ during 2CH mode, analog signal, 1.0 Vp-p, 75 $\Omega$
AUDIO OUT	AUDIO OUT CH1, CH2 : XLR 3-pin, male (x2), 0dBu / -20 dBu / +4 dBu
CHARACTER / AES / EBU	BNC (x1), VBS, 1 Vp-p, 75 $\Omega$ AES/EBU format VBS / HD and AES / EBU selectable
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-3500**

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



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**HDC-3170**

2/3-type 3-CMOS sensor portable system camera for triax operation



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**HDC-3100**

2/3-type 3-CMOS sensor portable system camera for fibre operation



**HZCU-SNMP50**

SNMP Agent license 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**

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



**HDFV-EL30**

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



**HDFV-EL75**

7.4-inch OLED Viewfinder for portable cameras



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**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 / HZCU-UHD35M / HZCU-UHD35W**

4K HDR software license for HDCU-3500



**HZCU-DHR50**

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



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**HDCE-TX30**

IP camera extension adaptor for remote live production (transmitter)



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**RCP-3500**

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



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**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)



**CNA-2**

Camera Control Network Adapter



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