

## 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](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
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Current consumption	4.5 A (max.)
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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

	<p>Gbps</p> <hr/> <p>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</p> <hr/>
REFERENCE IN / OUT	

## Input connectors

AC IN	AC 100 V to 240 V (x1)
SDI RET 1 to 4	<p>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</p> <hr/>
PROMPTER and PROMPTER 2 / VBS-RET	<p>BNC (x2), loop-through output during 1CH mode, terminate internally at 75 Ω during 2CH mode, analog signal, 1.0 Vp-p, 75 Ω</p> <hr/>

## Output connectors

AUDIO OUT CH1, CH2	XLR 3-pin, male (x2), 0dBu / -20 dBu / +4 dBu
CHARACTER / ABS /	<p>NC (x1), VBS, 1 Vp-p, 75 Ω AES/EBU format</p> <hr/>

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



## HDC-2500

3G double-speed multi format HD system camera

triax operation



## HDC-2400

3G multi format HD system camera

fibre operation



## HDC-1700

Multi format HD portable system camera

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-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

