

HDCU-3170

IP capable Triax Camera Control Unit



NETWORKED LIVE

Overview

IP capable Triax Camera Control Unit

The HDCU-3170 Triax Camera Control Unit is an ideal companion for the Sony HDC-3170 system camera. It also adds IP live production capabilities to our full range of broadcast and studio system cameras.

While it's intended primarily for triax operation, adding the HKCU-FB30 fibre option board makes the HDCU-3170 compatible with both triax and fibre systems – a benefit for production companies and OB trucks working in stadiums and venues with different transmission system.

By installing the optional 4K/HDR Processor Board HKCU-UHD30, the HDCU-3170 can output 4K signals when connected with an HDC-Series System Camera. In addition, adding the optional 12G-SDI Interface Kit HKCU-SDI30 allows transfer of 4K signals through a single BNC cable

Connecting to compatible cameras via triax cable, the compact (1.5U) HDCU-3170 supplies power to the camera, performs signal processing and provides an interface with external equipment.

With the addition of option boards and kits, the HDCU-3170 offers support for various interfaces including 3G SDI and IP. The CCU can provide simultaneous outputs of HD, HDR and SDR when used with HDC-3170 series system cameras.

Combined with the HKCU-SFP30 option board, designed for the SMPTE ST 2110 Professional Media Over Managed IP Network suite of standards, the HDCU-3170 CCU supports essential functionalities required for live IP production including tally, intercom and return.

*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 and versatile

The compact 1.5U Camera Control Unit creates a standardised 19-inch rack system that is ideal for space-limited production areas.

IP functionality for live production

The optional HKCU-SFP30 interface kit adds essential functionality required for IP live production including ST2110 output and return and NMOS IS-04/05 as well as tally, intercom and return over IP.

Eight built-in SDI outputs

The HDCU-3170 is equipped with eight built-in SDI outputs, including four 3G-SDI outputs. For extra production flexibility.

High quality long distance signal transmission

Adding the optional HKCU-SFP30 supports long distance signal transmission up to 10km over single mode fibre, making the CCU ideal for space-limited environments such as OB vehicles.

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.

Specifications

General	
Power requirements	100 V to 240 V AC 50/60 Hz
Current consumption	4.5 A (max.)
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage temperature	−20 °C to +60 °C (−4 °F to +140 °F)
Weight	Approx. 8.1 kg (17 lb 14 oz)
Input/output connectors	
CAMERA	Triax 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, 3 systems, 0dBu/−20dBu (for HDC-3100/HDC-3170) 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 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

Input/output connectors

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 , 270Mbps
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), 0dBu/-20 dBu/+4 dBu
CHARACTER / AES / EBU	BNC (x1), VBS: 1 Vp-p, 75 Ω AES/EBU: 0.5 Vp-p, 75 Ω
AC IN	100 V to 240 V AC (x1)

Supplied accessories

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



HZCU-SNMP50

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



HDC-3100

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



HDC-3170

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



HKCU-UHD30

4K HDR Processor Board



HKCU-SDI30

12G-SDI Interface Kit



HKCU-SM30

Single Mode Fibre Extension Kit



HZCU-CNFG50

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



HDVF-EL30

0.7-type Full HD OLED viewfinder with 3.5-type sub-LCD display. Compatible with F65, 4K/HD system cameras, and shoulder-type HD camcorders.



HDVF-EL75

7.4-inch OLED Viewfinder for portable cameras



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)



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