

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 systems.

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)
----------------------	--

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

embar+ 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



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)



© 2004 - 2026 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.