

## 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](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 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
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Current consumption	4.5 A (max.)
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Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
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Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
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Mass	Approx. 8.1 kg (17 lb 14 oz)
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### Input/output connectors

CAMERA FIBER	No
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CAMERA TRIAX	Triax connector (x1)
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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
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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	<p>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            3G-SDI/HD-SDI/SD-SDI, character signal selectable</p>
REFERENCE IN/OUT	<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>

## Input connectors

AC IN	100 V to 240 V AC (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 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

## Output connectors

AUDIO OUT CH1, CH2	XLR 3-pin, male (x2), 0dBu/-20 dBu/+4 dBu
CHARACTER/ABS/EBU	BNC (x1), VBS, 1 Vp-p, 75 Ω HD SYNC: BTA-S001, tri-level sync, 0.6 Vp-p, 75 Ω SD SYNC: composite sync, 0.3 Vp-p, 75 Ω VBS/HD SYNC/SD SYNC selectable
	3G/HD/SD SDI OUTPUT BNC (x4) 3G-SDI: SMPTE ST424/425 Level-

SDI OUT 1 to 4	<p>A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps</p> <p>HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps</p> <p>SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 Ω, 270 Mbps</p> <p>3G-SDI/HD-SDI/SD-SDI, character signal selectable</p>
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## Supplied accessories

Supplied accessories	<p>Number plates (1 set), Before Using this Unit (1), Operating Instructions (CD-ROM) (1)</p>
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## Optional accessories

Optional accessories	<p>United States and Canada: Power cord set (1-551-812-XX) Other areas: Power cord set (1-782-929-XX)</p> <p>United States and Canada: Plug holder B (2-990-242-01) Other areas: Plug holder C (3-613-640-01)</p> <p>CCA-5-3 Connection Cable (3 meters), CCA-5-10 Connection Cable (10 meters)</p>
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## Related products



### HZCU-SNMP50

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



### HDC-3100

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



### HDC-3170

Three 2/3-inch CMOS sensors 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

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)

## Gallery

