

SONY HDCU-3100

HD System Camera Control Unit



4K

IP Live
Production System

HDR

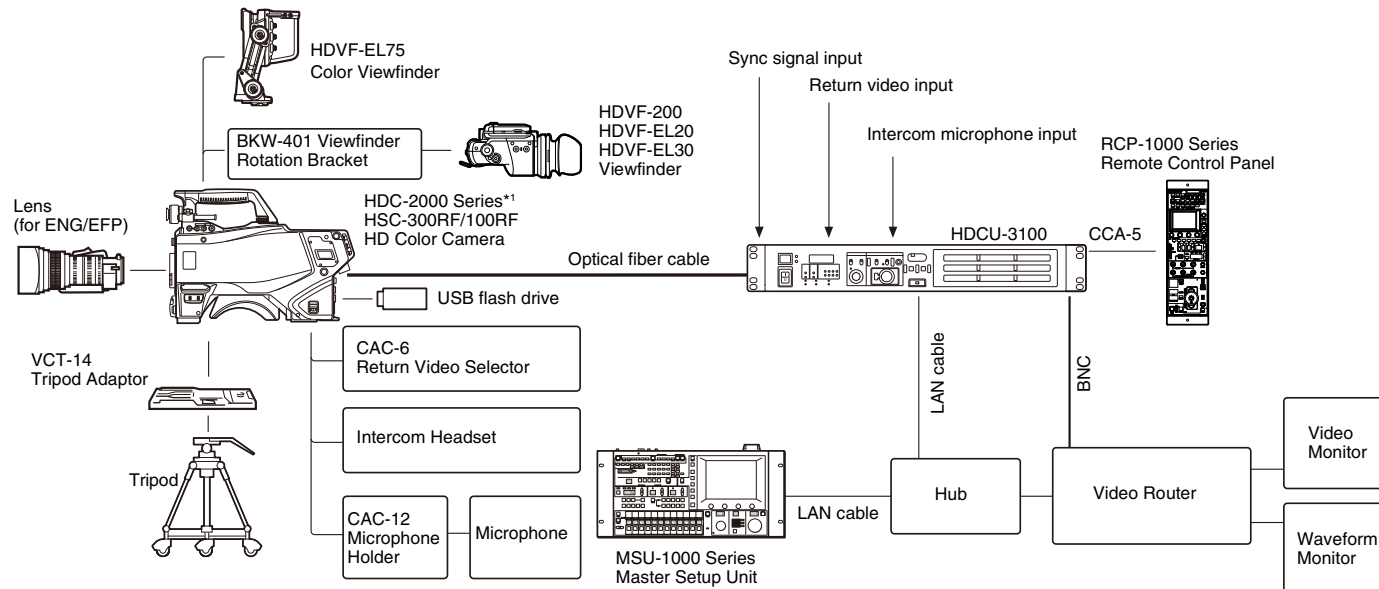
Sony HDCU-3100 Camera Control Unit is the next-generation CCU that connects to the Sony HDC-2500/2400/2000/1700 and to HSC-300RF/100RF Series HD Studio Cameras. This new CCU performs signal processing, provides an interface to external equipment, and supplies power to the camera. In a compact 1.5 RU-size, this device provides a path for IP and 12G capabilities, including IP on HDC Series optical fiber studio cameras

By adding the optional HKCU-SFP30 Interface Kit for SMPTE ST2110 to the HDCU-3100, you gain essential functionalities for live production such as tally, intercom, and return. 12G-SDI signals will be supported in the near future.

- This highly compact 1.5 RU-size HDCU-3100 Camera Control Unit fits a standardized 19-inch rack system, ideal for space-limited production areas
- Installation of the optional HKCU-SFP30 Interface Kit allows output of SMPTE ST2110 signals from the HDCU-3100
- High power supply enables operation of HDC Series cameras and selected HSC Series*¹ cameras with HDLA-1500/1505/1507 kits
- Full legacy inputs including:
 - Up to eight 3G-SDI/HD-SDI outputs
 - Four sets of 3G-SDI/HD-SDI/SD-SDI and analog composite return video inputs
 - Two-channel teleprompter inputs
 - Built-in LAN interface (10BASE-T/100BASE-TX)
 - Two-channel data trunk lines (RS-422A or RS-232C) for easy data transmission
 - AES/EBU digital audio output
 - Two-channel microphone outputs (two XLR connectors)

*1 HDC-2500/2400/2000/1700, HSC-300RF

System Configuration Example



*1 HDC-2000 Series: HDC-2500/2400/2000/1700

Optional Accessories



HKCU-SFP30
ST2110 interface kit



MSU-1500
Master Setup Unit



RCP-1500
Remote Control Panel



RCP-1000
Remote Control Panel

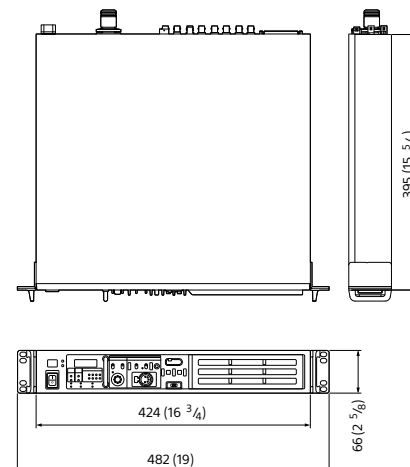


HDCE-100
Camera Extension Adaptor

HKCU-UHD30
4K/HDR Processor Board

HKCU-SDI30
12G-SDI Interface Kit

Dimensions



Unit: mm (inches)

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)
Mass	Approx. 7.3 kg (16 lb. 1.5 oz.)
Input/output connectors	
CAMERA FIBER	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, 2 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 Gbps SD-SDI: SMPTE ST259, 0.8 Vp-p, 75 Ω, 270Mbps 3G-SDI/HD-SDI/SD-SDI, character signal selectable
REFERENCE IN/OUT	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
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
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
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)	
Service Manual	
Related devices	
HDC-2000 HD Color Camera	
HDC-2500/2400/1700 HD Color Camera	
HSC-300RF/100RF HD Color Camera	
BPU-4000/4500A Baseband Processor Unit	
RCP-1000 series Remote Control Panel	
MSU-1000 series Master Setup Unit	

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