

HDC-3200

2/3-inch 4K 3CMOS Camera
System



Overview

Spectacular 4K quality made brilliantly accessible

The HDC-3200 system camera brings pristine 4K image quality and impressive versatility to every live production. Sharing many operational features with Sony's acclaimed HDC Series of cameras, the HDC-3200 features a highly sensitive 4K 3CMOS sensor with Global Shutter Technology, delivering sparkling picture quality with extremely low noise – even in dimly lit studios.

Features

Sensitive 2/3-inch 4K CMOS imager with global shutter

The high-performance 2/3-inch 4K CMOS image sensor at the heart of the HDC-3200 achieves extremely high sensitivity with an impressive signal-to-noise ratio. Sony's class-leading Global Shutter Technology eliminates the 'jello effect' and banding noise, allowing the HDC-3200 to capture stable, precise 4K (UHD) images even with fast-moving subjects. Whether you're shooting in news studios with LED walls or live entertainment venues, viewers will appreciate premium pictures with exquisite 4K detail and high dynamic range, with support for the ITU-R BT.2020 wide colour space.

Quick conversion from handheld to large lens

operation

Compatibility with Sony's new HDLA-3505 and HDLA-3501 large lens adaptors gives even more flexibility in live production environments. Unlike traditional 'build-up' kits, the adaptor allows fast one-touch mounting of the camera head without the need for time-consuming wiring and adjustments. As a further time-saving feature the HDC-3200 can be undocked from the adaptor without needing to remove the lens.

Bigger returns from your production assets

Sharing familiar ergonomics and operating workflow with Sony's acclaimed HDC camera family, the HDC-3200 is compatible with a wide range of camera system accessories including viewfinders, large lens adaptors and camera control units. You'll benefit with reduced training requirements and optimised use of your existing hardware inventory.

Easy in-CCU recording

Add the optional HKCU-REC55 to the HDCU-3500 Camera Control Unit and record 4K video and audio directly to the CCU, with no other external recording device needed. Recording can be controlled remotely from the CCU side, allowing the camera operator to focus on capturing beautiful images without distractions.

Ready for IP Live

The HDC-3200 is a versatile, highly cost effective partner for today's IP Live production workflows. The camera can be integrated seamlessly into your ST 2110 production infrastructure, either via the HDCU-3500/3100 CCU with IP interface option or using HDCE-TX50/TX30 camera extension adaptor.

Simultaneous HDR and SDR production

The HDC-3200 supports Sony’s acclaimed SR Live workflow, reducing the cost and complexity of simultaneous HDR and SDR programme production by a single crew.

Specifications

General

Power requirements	AC 240 V, 1.4 A (max.), DC 240 V, 1.05 A (max.)
Operating temperature	-20°C to +45°C (-4°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Mass	Approx. 10 lb 2 oz (4.6 kg)

Imager

Imager	2/3-inch type 4K CMOS sensor with global shutter
Method	3-CMOS, RGB

Electrical characteristics

Sensitivity	F10 with 1080/59.94p F11 with 1080/50p (at 2,000 lx with 89.9% reflectance)
Signal-to-noise ratio	-62 dB
Geometric	Negligible (not including lens)

distortion	distortion)
Optical system specifications	
Spectrum system	F1.4 prism
Built-in filters	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64N, 5:CROSS
Input/output connectors	
CCU	Electro-optical connector (LEMO 3K.93C connector) (x1)
LENS	12-pin (x1)
VF	20-pin (x1)
MIC 1 IN	XLR 3-pin, female (x1)
AUDIO IN CH1, CH2	XLR 3-pin, female (x1 each) AUDIO switch for MIC: -60 dBu (can be selected up to -20 dBu in the menu), balanced AUDIO switch for LINE: 0 dBu, balanced
INTERCOM	XLR 5-pin, female (x1 each)
EARPHONE	4-pole mini jack (x1), (2-pole mono, 3-pole stereo, 4-pole CTIA standard, 4-pole OMTP standard)
DC IN	XLR 4-pin (x1), DC 10.5 to 17 V

DC OUT	4-pin (x1), DC 10.5 to 17 V, max. 0.5 A ^{*1} , 2-pin (x1), DC 10.5 to 17 V, Max. 2.5 A ^{*1}
SDI 1	BNC (x1)
SDI MONI	BNC (x1)
TEST OUT	BNC (x1)
PROMPTER/GENLOCK	BNC (x1) PROMPTER 1 Vp-p, 75 Ω GENLOCK 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)
RET CTRL	6-pin (x1)
REMOTE	8-pin (x1)
TRACKER	12-pin (x1)
USB	USB 2.0 Type A 4-pin (x1) (for connecting USB drive)
Supplied accessories	Before Using This Unit (1), Operating Instructions (CD-ROM) (1), Cable clamp belt (1 set), Screws (+B3×8) (2), Attached label (1), Camera number label (1)

Note

*1

This may be limited by the imposed load or inputs.

Optical Low-Pass Filter

In cases where a HDC-3200's Series camera's built-in Filter does not fully reduce the moire caused by some LED walls, the optional Optical Low Pass Filter (OLP) will help further reduce the moire effect (Part number; 1-856-731-31).

Related products



RCP-3100

Joystick type of remote control panel for HDC/HSC/HXC series cameras.

5 units in 19-inch EIA rack.



HDCU-3100

IP enabled next generation Camera Control Unit



HDVF-EL75

7.4-inch OLED Viewfinder for portable cameras



HDVF-L750

Full HD 7-inch LCD viewfinder



HDCE-TX30

IP camera extension adaptor for remote live production (transmitter)



HZC-CSM10

Master Setup Unit (MSU) PC Software



HZCE-JX50F / HZCE-JX50FM / HZCE-JX50FW

4K/HD JPEG XS SOFTWARE



HZCE-JX50H / HZCE-JX50HM / HZCE-JX50HW

HD JPEG XS SOFTWARE



BRC-AM7

Premium PTZ Auto Framing Camera with AI Analytics, 4K 60p, 20x optical zoom. High interoperability with other production systems

Gallery



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