SONY

HDC-3170

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

NETWORKED LIVE

Overview

Raising the standard in creative flexibility

The HDC-3170 system camera brings new levels of creative flexibility and portability to live production environments. Enjoy premium HD pictures plus the versatility of digital triax transmission.

Next generation imaging

Capture premium pictures with the world's first 2/3-type CMOS sensor with global shutter technology that eliminates the 'jello effect' and banding noise. This allows the HDC-3170 to capture pristine images with low noise and excellent sensitivity (F12 at 1080/59.94p or F13 at 1080/50p).

More format flexibility (4K/HD)

The HDC-3170 can output 3G-SDI signals in a range of formats right up to 1080/50p, with 4K available via the CCU's 12G-SDI and Quad 3G-SDI interfaces. So you can benefit from maximum production convenience – and your viewers can enjoy premium picture quality.

Next-generation digital triax transmission

The HDC-3170 supports the latest third generation digital triax-based camera/CCU transmission system. This can carry high-quality Full HD images over distances up to 1,800m* while integrating smoothly into current triax infrastructures.

*With 14.5mm diameter triax cable. Maximum transmission distance varies with camera system configuration.

Get the look

Broaden your creative possibilities and achieve exactly the look you want in any shooting situation. Low-key Saturation ensures rich, vibrant colours in low-light areas. Powerful gamma functions give absolute control over fine-tuning tonal values, contrast and detail.

Simultaneous HDR and SDR production

The HDC-3170 can capture High Dynamic Range images, supporting Sony's SR Live workflow for simultaneous HDR/SDR production with reduced inventory requirements.

This product contains pre-installed software and requires the purchase of licence keys to activate some functions.

Features

The go anywhere camera

The magnesium alloy body of the HDC-3170 offers exceptional lightness and strength. Sure, stable handling is enhanced by the camera's low centre of gravity, easily adjustable shoulder pad and widened hand grip area. Also ideal for handheld operation, HDC series studio cameras offer exceptional user ergonomics in a wide range of studio and field-based production environments.

Remote control of ND/CC
An Neutral Density (ND) /Color Correction (CC) can be controlled from a remote control panel(RCP), master setup unit(MSU), or directly from the camera head.

Seamless integration
Backwards compatibility with Sony's industry-acclaimed HDC-2000 series system cameras simplifies smooth integration with your current live production infrastructures, including cameras and CCUs.

Rich focus assist functions
The Viewfinder Detail function adds dedicated image-enhancing edge signals directly to the viewfinder, helping the operator to focus quickly and precisely in any shooting situation. It's complemented by a Focus Assist Indicator and advanced Focus Position Meter function.

Servo controlled ND filter
An optical Neutral Density (ND) filter wheel opens up wider creative possibilities. The filter can be controlled from a remote control panel, master setup unit, or directly from the camera head.

Specifications

General	
Power requirements	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)
Weight	Approx. 5.0 kg (11 lb 0.4 oz)

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

Electrical characteristics	
Sensitivity	F12 with 1080/59.94i F13 with 1080/50i (at 2 000 lx with 89.9% reflectance)
Signal-to-noise ratio	-62 dB
Geometric distortion	Negligible (not including lens distortion)

Optical system specifications	
Spectrum system	F1.4 prism
Built-in filters	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Input/output connectors	
CCU	Triax connector (x1)
LENS	12-pin (x1)

Input/output connectors	
VF	20-pin (x1)
Audio input	MIC 1 IN : XLR 3-pin, female (x1) AUDIO IN CH1, CH2 : XLR 3-pin, female (x1 each) When AUDIO switch is set to MIC: –60 dBu (can be selected up to –20 dBu by menu operation), balanced When AUDIO switch is set to LINE: 0 dBu, balanced
INTERCOM	INTERCOM 1 : XLR 5-pin, female (x1 each) INTERCOM 2 : 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	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	
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.

Related products

RCP-3100

Joystick type of remote control panel for HDC/HSC/HXC series cameras.
5 units in 19-inch EIA rack.

HZC-PRV50 / HZC-PRV50M / HZC-PRV50W

Software licenses for shooting and transmission of Progressive video

RCP-1500

Joystick type of Remote Control Panel for HDC/HSC/HXC series cameras. 4 units in 19-inch EIA rack.

MSU-1000

Master setup unit, multi camera remote control panel for HDC / HSC cameras (horizontal type)

MSU-1500

Master setup unit, multi camera remote control panel for HDC / HSC cameras (vertical type)

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

HZC-PSF50 / HZC-PSF50M / HZC-PSF50W

Software licenses for shooting and transmission of PsF format video

HZC-CSM10

Master Setup Unit (MSU) PC Software

Gallery

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