

HDC-3500

Imaging performance, mobility, reliability and versatility to satisfy today's demanding live production requirements.



Panoramica

A new benchmark in creative flexibility

The HDC-3500 system camera brings new levels of image quality, portability and creative flexibility to live production environments. Enjoy premium 4K/HD/HDR picture quality - and anticipate tomorrow's production needs while maintaining full compatibility with today's workflows and system hardware.

Imaging power unleashed

Capture premium pictures with the world's first 2/3-inch 4K CMOS sensor with global shutter technology that eliminates the 'jello effect' and banding noise. This allows the HDC-3500 to capture pristine 4K images with exceptionally low noise (-62dB), impressive sensitivity (F10 at 1080/59.94p or F11 at 1080/50p) and high dynamic range, while achieving the ITU-R BT.2020 broadcast standard wide colour space. It's teamed with a specially developed LSI Digital Signal Processor that fully realises the extraordinary imaging power of this new sensor.

More format flexibility

The HDC-3500 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.

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.

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Easy transmission change

The HDC-3500 supports optical fibre transmission as standard, with a SMPTE-standard interface for connection with associated HDCU-3100/HDCU-2000 series Camera Control Units. It's quick and easy to reconfigure the camera at any time for fibre, third-generation digital triax or wireless operation with a choice of optional outside panels.

Wider workflow options

Support for Sony's SR Live for HDR workflow allows simultaneous 4K HDR and HD SDR production by a single team - reducing hardware and personnel costs for multi-format productions. In addition, the HDC-3500 can be upgraded by the optional software licenses to add functions to capture progressive signals, progressive segmented frame (PsF) signals, or double-speed acquisition for exquisite slow motion.

The go anywhere camera

Combining exceptional lightness and strength, the magnesium alloy body is complemented by carbon fibre reinforced plastic (CFRP) outside panels. 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.

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.

Smooth slow motion

The HDC-3500 offers a double-speed acquisition function, transmitting high-quality Full HD images to the HDCU-3100 or HDCU-2500 Camera Control Unit (CCU).

Display camera number and tally

Assigned camera number is indicated on the camera body by a graphical electronic paper display. Displayed information is updated automatically to reflect system changes. There’s also an LED tally lamp beside the camera number display.

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 and CC filters

Dual optical filter wheels for Neutral Density (ND) and Colour Correction (CC)* open up wider creative possibilities. Both filters can be controlled from a remote control panel, master setup unit, or directly from the camera head.

Network TRUNK

Network TRUNK (via LAN port) allows high-speed data transmission between the camera and CCU at up to 1 Gbps to support configurability* with IP-based products and systems.

* Camera operating in fibre configuration.

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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. 4.9 kg (10 lb 13 oz) (Unit only) Approx. 5.1 kg (11 lb 4 oz) (when HKC-TR37 is attached) Approx. 4.9 kg (10 lb 13 oz) (when HKC-FB30 is attached)

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 or higher
Horizontal resolution	1,000 TV lines (at center of screen), 5% or higher modulation
Geometric distortion	Negligible (not including lens distortion)

Optical system specifications

Spectrum system	F1.4 prism
Built-in filters	ND filters 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND CC filters A: cross filter, B: 3200K (clear), C: 4300K, D: 6300K

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 1, 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 1	BNC (x1)

SDI 2	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)
PROMPTER2	BNC (x1), 1 Vp-p, 75 Ω
RET CTRL	6-pin (x1)
REMOTE	8-pin (x1)
TRACKER	12-pin (x1)
CRANE	12-pin (x1)
USB	USB 2.0 Type A 4-pin (x1) (for connecting USB drive)
NETWORK TRUNK	RJ-45 type 8-pin (x1)
Supplied accessories	Before Using This Unit (1), Operating Instructions (CD-ROM) (1), Cable clamp belt (1 set), Screws (+B3×8) (2), Attached label (1)

Note

*1 This may be limited by the imposed load or inputs.

Galleria



