SONY

HDC-5500

2/3-type 4K 3-CMOS sensor portable system camera with 4K 4x HFR capability



NETWORKED LIVE

Overview

A new benchmark in creative flexibility

The HDC-5500 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.

Direct 4K output

A newly-developed on-board signal processor allows the HDC-5500 to output 4K signals directly without the addition of a dedicated external baseband processor unit, saving rack space in the confines of an OB vehicle or studio environment. It can also output 4K signals directly via 12G-SDI. Thanks to an all-new 4K baseband transmission system, the compact camera is ideal for use in steadicam and wireless camera systems

Impressive sensitivity and colour reproduction

Capture premium pictures with Sony's advanced 2/3-type 4K CMOS sensor with global shutter technology that eliminates the 'jello effect' and banding noise. This allows the HDC-5500 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.

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-5500 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

Easy transmission change

The HDC-5500 supports optical fibre transmission as standard with ultra high bitrate (UHB) transmission. With an optional side panel, HDC-5500 is compatible with HDCU-3500/3100/2000 series Camera Control Units. It is 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

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.

The go anywhere camera
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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.

Multi-speed slo-motion acquisition
Adding an optional license enables high frame-rate (HFR) HD image capture at 8x, 6x, 4x, 3x, and 2x. Simultaneous capture of high dynamic range (HDR) images allows simultaneous production of HDR and SDR at an SR-Live event.

Virtual Production Made Simple
Virtual production combines real sets and props with virtual backgrounds, enabling limitless environments and innovative forms of expression.

Global shutter cameras are an ideal choice for shooting against LED display walls. The virtual production toolset, including virtual HDC cameras, facilitates simulations, enhances shooting efficiency, and expands opportunities for effortless and unrestricted creative expression.

ARIA: Automatic Restoration of Illumination Attenuation
F drop and peripheral light loss are unwanted physical phenomena especially in long-distance object shooting. Thanks to the newly developed ARIA function of HDC series, the impact on picture appearance is automatically compensated for by processing inside the camera for the supported lens*.
* Contact your Sony sales office or representative for details

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.

Recording and real-time network transfer

With the recording option HKCU-REC55, the HDCU-5500 can record the live feed inside CCU. The file can be transfered to USB SSD or network storage in real-time during recording. Therefore, when the shooting operation is finished, the file is already transferred to portable SSD or NAS.

Specifications

General	
Power requirements	AC 240 V, 1.4 A (max.), DC 12 V, 9.5 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)
Weight	Approx. 5.0 kg (11 lb 0.4 oz) (unit only)

Imager	
Imager	2/3-type CMOS sensor with global shutter
Method	3-CMOS, RGB
Effective resolution (H x V)	QFHD: 3840 × 2160 HD: 1920 × 1080

Electrical characteristics	
Sensitivity	F10 with 1080/59.94p F11 with 1080/50p (at 2000 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	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	Optical / electrical multi connector (LEMO 3K.93C connector) (x1)
LENS	12-pin (x1)
VF	20-pin (x1)

Input/output connectors	
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, INTERCOM 2 : XLR 5-pin, female (x1 each)
EARPHONE	4-pole mini jack (x1), (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 2 : BNC (x1) SDI 3 : 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	No
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	
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.

Related products



HDCU-5500

IP-ready Camera Control Unit (CCU) for HDC-5000 series 4K/HD system camera



HZC-PRV50 / HZC-PRV50M / HZC-PRV50W

Software licenses for shooting and transmission of Progressive video



HKC-WL50

Wireless transmission adaptor for HDC-5500 and HDC-3500



HKC-TR37

Digital Triax Transmission Adaptor for HDC camera series



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-EL75

7.4-inch OLED Viewfinder for portable cameras



HDVF-EL30

0.7-type Full HD OLED viewfinder with 3.5-type sub-LCD display. Compatible with F65, 4K/HD system cameras, and shoulder-type HD camcorders.



HZC-PSF50 / HZC-PSF50M / HZC-PSF50W

Software licenses for shooting and transmission of PsF format video



HZC-UG50 / HZC-UG50M / HZC-UG50W

Software licenses for shooting 1080/RGB 4:4:4 & User Gamma with HDC-5500/3500 series system camera



HZC-DFR50 / HZC-DFR50M / HZC-DFR50W

Software licenses for shooting Dual Frame Rate 2x slow motion



HDCU-5000

Camera Control Unit (CCU) for HDC-5500 and HDC-3500/3100 series system cameras



HKCU-REC55

Recording option for HDCU-5500 and HDCU-3500 CCU



HKCU-SDI50

12G-SDI interface kit for HDCU-5000 CCU



PWA-RCT1

Recording Control Software for PWS-4500, HKCU-REC55 and HKCU-REC50



HKCU-REC50

Recording option for HDCU-5000



HZC-HFR50P

Portable HFR license for HDC-5500/HDC-P50



HZC-UHD50P

Portable UHD/1080p license for HDC-5500/HDC-P50



HZC-QFR50 / HZC-QFR50M / HZC-QFR50W

Max. HD 4x Slow motion with HDC-3500 system camera and others



HZCE-UHD30

Software license for 4K IP output from HDCE-TX30 IP camera extension adaptor



HDRC-4000

HDR Production Converter Unit



HDCE-TX50

IP camera extension adaptor for remote live production (transmitter)



HDCE-RX50

IP CCU extension adaptor for remote live production (receiver)



HDLA-3501

Large Lens Adaptor



HDLA-3505

Large Lens Adaptor



HZC-CSM10

Master Setup Unit (MSU) PC Software



HZCE-JX50F / HZCE-JX50FM / HZCE-JX50FW

4K/HD JPEG XS SOFTWARE



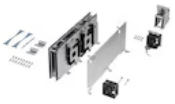
HZCE-JX50H / HZCE-JX50HM / HZCE-JX50HW

HD JPEG XS SOFTWARE



HKC-VND50

Variable ND filter unit



HKCU-UHF50

4K 4x processor board for HDCU-5000



CNA-2

Camera Control Network Adapter



Camera and Display Plugin

Design, visualise and refine your virtual production shots



Color Calibrator

Fine tune colour reproduction for your virtual production

Gallery











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