SONY
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HDC-2000 Series HD Camera

HDC-2500
Multi-format HD Camera

HDC-2400
Multi-format HD Camera

HDCU-2000
Full-rack-size Camera Control Unit

HDCU-2500
Half-rack-size Camera Control Unit

Preliminary

Sony's new flagship camera with state-of-the-art technologies

Sony introduces a powerful solution for HD studio operations with the HDC-2000 Series System Camera in two models: Sony's full-featured flagship model, the HDC-2500 and its basic model, the HDC-2400.

For use in a wide range of shooting applications, Sony offers two types of camera control unit (CCU) for connection with these cameras: the HDCU-2000 full-rack-size CCU and the HDCU-2500 half-rack-size CCU.

HDC-2000 Series cameras provide superior picture quality by incorporating a newly developed high-performance 2/3-inch CCD image sensor and a Digital Signal Processor (DSP) with 16-bit A/D converter. In addition, HDC-2000 Series cameras incorporate a 3G fiber transmission system as a standard feature.

With their innovative high performance and advanced operability, HDC-2000 Series cameras are outstanding acquisition tools for a broad range of HD production applications.

HDC-2500 / HDC-2400

HDCU-2000

HDCU-2500

Excellent picture quality

HDC-2000 Series cameras are equipped with three new 2/3-inch-type CCD sensors, which deliver superior picture performance. They also incorporate a new DSP with 16-bit A/D converter.

Due to Sony's advanced sensor technologies, this imager provides sensitivity of F10 (1920 x 1080/59.94i mode) and F11 (1920 x 1080/50i mode), and a remarkable signal-to-noise ratio of 64 dB when the Noise Suppression function is activated.

A broad range of output formats are available for various shooting applications, such as sports and live production.

- 1080i/50, 1080i/59.94, 720p/50, 720p/59.94
- 1080p/23.98, 1080p/25, 1080p/29.97*1
- 1080p/50, 1080p/59.94*2
- 1080i/100, 1080i/119.88, 720p/100, 720p/119.88*3 as double speed capturing for slow motion
- RGB 4:4:4 output with user gamma capability*4

*1 An optional software HZC-PSF20 is required for HDC-2400

*2 An optional software HZC-PRV20 is required for HDC-2400

*3 An optional software HZC-DFR20 is required for HDC-2400

*4 An optional software HZC-UG444 is required for HDC-2400

3G transmission capability as standard

Sony's camera systems including the HDC-2500, HDC-2400, HDCU-2000, and HDCU-2500 offer a 3G capability as standard. This high-performance feature enables users to shoot in various capturing formats.

Double-speed acquisition for excellent slow-motion picture*1

HDC-2000 Series cameras can capture images at double speed. This function allows users to produce impressive slow-motion pictures, ideal for sports and various other creative shooting applications.

Acquisition is available at 1080i/100, 1080i/119.88, 720p/100, and 720p/119.88.

3D production with 3G fiber transmission

The HDC-2000 Series is equipped with a 3G fiber transmission system as standard, ideal for 3G and 3D production.

*1 An optional software HZC-DFR20 is required for HDC-2400

1080p/60 and 1080p/50 capturing capability

Breathtaking high-quality images can be captured with a 1080p/60 or 1080p/50 format mode.

This function is ideal for sporting events that include scenes with fast movement.

Network Trunk interface

This interface is extremely beneficial when building a new IT system, as it provides additional flexibility in live production.

Long-distance signal transmission

Sony's advanced signal transmission technologies allow for signals and power to be transmitted up to 4 km with the HDCU-2000 Camera Control Unit (CCU) or 1.8 km with the HDCU-2500 CCU.

Long-distance signal transmission is ideal for sporting events such as golf tournaments.

Stylish and robust camera body

HDC-2000 Series cameras incorporate carbon fiber reinforced plastic (CFRP) in their outer panels to provide high rigidity within a stylish design.

Variety of functions for any shooting conditions

The HDC-2000 Series also includes a wide range of camera functions that have been inherited and expanded from Sony's earlier successful cameras.

Auto Lens chromatic Aberration Compensation function (ALAC)

With the newly designed digital signal processor (DSP) LSI, ALAC function automatically compensates for lens chromatic aberration.

The ALAC function for HDC-2000 Series cameras has been remarkably improved. This function works in both horizontal as well as vertical directions.

Adaptive Matrix function

When Adaptive Matrix function is activated, images with well-balanced detail can be reproduced even in strong monochromatic light conditions.

This function is highly beneficial for stage events with strong monochromatic light.

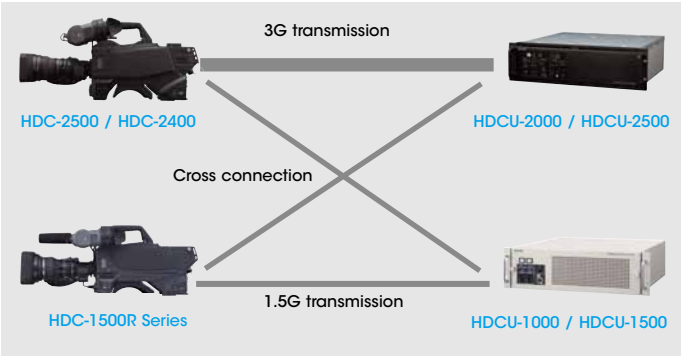
Natural Skin-tone Detail function

The Natural Skin-tone Detail function improves upon Sony's powerful skin detail functionality, and is particularly effective in maintaining eyebrow fine detail.

Flexible system capability

Cross connecting capability with the HDC-1500R Series

Each camera can work with the other camera's CCU.



Extensive accessory compatibility (HDC-1500R & HDC-2000 Series)

All accessories can be used for both the HDC-1500R Series and the HDC-2000 Series.

RCP-1000/1500 Series
Remote Control Panel

HDVF-EL75
7.4-inch Color HD Viewfinder

HDLA-1500 Series
Large Lens Adaptor

HKC-T1500
HD CCD Block Adaptor

Specifications

	HDC-2500	HDC-2400
General		
Power requirement	240 V AC, 1.4 A (max.), 180 V DC, 1.0 A (max.), 12 V DC, 7 A (max.)	
Operating temperature	-4°F to +113°F (-20°C to +45°C)	
Storage temperature	-4°F to +140°F (-20°C to +60°C)	
Weight	9 lb 15 oz (4.5 kg)	
Camera section		
Pickup device	3-chip 2/3-inch type Progressive CCD	
Effective picture elements	1920 x 1080 (H x V)	
Signal format	1080i/50, 1080i/59.94, 720p/59.94, 720p/50	
	1080p/23.98, 1080p/24, 1080p/25, 1080p/29.97 *1	
	1080p/50, 1080p/59.94 *2	
	1080i/100, 1080i/119.88, 720p/100, 720p/119.88 *3 (For x2 Slow Motion Shooting)	
	RGB 4:4:4 Output *4	
Spectrum system	F1.4 prism system	
Built-in filters CC	A: CROSS, B: 3200 K, C: 4300 K, D: 6300 K, E: 8000 K	—
Built-in filters ND	1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND	1: CLEAR, 2: 1/4ND, 3: 1/16ND 4: 1/64ND, 5: CROSS
Sensitivity	F10 (1080i/59.94 mode), F11 (1080i/50 mode) (at 2000 lx, 3200 K, 89.9% reflectance)	
Signal-to-noise ratio (typical)	Approx. 64 dB (with Noise Suppression)/ 60 dB (typical)	
Moduration depth (1080i typical)	Y: 50% at 27.5 MHz (800 TV lines with typical lens)	
Input/Output		
SDI 1	BNC (x1) (3G / HD-SDI output)	
SDI 2	BNC (x1) (HD-SDI input / output)	
SDI monitor output	BNC (x1) (HD-SDI / SD-SDI)	
Prompter output / Genlock input	BNC (x1), 1 Vp-p, 75 Ω	
Prompter output / Return input	BNC (x1), 1 Vp-p, 75 Ω	
Test output	BNC (x1), 1 Vp-p, 75 Ω	
Mic input	XLR 3-pin (x1) (female)	
Audio input (Ch1, Ch2)	XLR 3-pin (x2) (female)	
Intercom 1 / Intercom 2	XLR 5-pin (x2) (female)	
Earphone output	Stereo mini-jack 3-pin (x1)	
Return control input	6-pin (x1)	
Tracker	10-pin (x1)	
Crane	12-pin (x1)	
Remote	8-pin (x1)	
Network TRUNK	RJ-45 (x1)	
Lens	12-pin (x1)	
Viewfinder	20-pin (x1)	
CCU	Optical / electrical multi-connector (x1)	
DC input	XLR 4-pin (x1)	
DC output	Mini type 4-pin (x1) (DC 10.5 V to 17V, max. 0.5 A)	
	2-pin (x1) (DC 10.5 V to 17V, max. 2.5 A)	
USB	Type A 4-pin (x1)	

	HDCU-2000	HDCU-2500
General		
Power supply	100 V AC to 240 V AC, 50/60 Hz	
Operating temperature	41°F to 104°F (5°C to 40°C)	14°F to 104°F (-10°C to +40°C)
Storage temperature	-4°F to +140°F (-20°C to +60°C)	
Dimensions (W x H x D) (excluding protrusions)	16 7/8 x 5 1/4 x 16 1/4 in (426 x 133 x 410 mm)	8 x 5 x 16 1/4 in (202 x 127 x 410 mm)
Weight	38 lb 9 oz (17.5 kg)	14 lb 12 oz (6.7 kg)
Input/Output		
Camera	Optical / electrical multi-connector (x1) 240 V AC power supply	Optical / electrical multi-connector (x1) 180 V DC power supply
Intercom/Tally/PGM	D-sub 25-pin (x1) female	
RCP/CNU	8-pin (x1)	
TRUNK A	12-pin (x1)	
TRUNK LINE	D-sub 9-pin (x1) female, RS-232C/422 system	—
Network TRUNK	RJ-45 8-pin (x1)	
LAN (RCP/MSU)	RJ-45 8-pin (x1)	
I/O port	D-sub 15-pin (x1)	—
SDI return input	BNC (x4) (3G / HD / SD)	BNC (x3) (3G / HD / SD / VBS)
VBS return input	BNC (x4), 1 Vp-p, 75 Ω	
Prompter input	BNC (x4), loop-through output, VBS, 1 Vp-p, 75 Ω	BNC (x2), loop-through output, VBS, 1 Vp-p, 75 Ω
Reference input	BNC (x2), loop-through output	
Audio output (Ch1, Ch2)	XLR 3-pin (x2) (male), 0 dBu / -20 dBu / +4 dBu	
Mic remote	D-sub 15-pin (x1)	
AES/EBU output	BNC (x1)	—
Sync output	BNC (x1)	BNC (x1)
Character output	BNC (x1)	
3G / HD-SDI output	BNC (x4)	BNC (x3)
HD-SDI / SD-SDI output	BNC (x4)	
HD TRUNK output	BNC (x1)	
HD prompter input	BNC (x1)	

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Optional accessories

Optional accessories for HDC-2400

HKC-DF20 : Dual filter unit (CC & ND)
HZC-UG444 : RGB 444 output and user gamma function (optional software)
HZC-PSF20 : 1080p/24.98, 24p, 25p, 29.97p signal format (optional software)
HZC-PRV20 : 1080p/50, 59.97 signal format (optional software)
HZC-DFR20 : Dual-speed scan for x2 slow motion (optional software, 1080i/100, 1080i/119.88, 720p/100, and 720p/119.88)

Optional accessories for HDCU-2000 and HDCU-2500

HKCU-1001 : SD Analog Interface unit
HKCU-1003 : Multi Interface unit
HKCU-2007 : 3G / Dual Link / HD output Interface unit

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ISO 14001 BUREAU VERITAS Certification

The HDC-2500, HDC-2400, HDCU-2000, and HDCU-2500 are produced at Sony EMCS Corporation's Tokai Technology Center, which has received ISO14001, the Environmental Management System certification.

Printed in USA (1/12)