

HDC-2500

3G double-speed multi format
HD system camera



Overview

3G 1080/50P transmission as standard

The HDC-2500 system camera, part of the HDC-2500 Series, is the successor to the HDC-1500R Series. The top-of-the-range HDC-2500 incorporates Sony's advanced technologies for studio cameras. A newly developed 2/3-inch CCD and the new Digital Signal Processing (DSP) with 16 bit A/D converter provides amazing picture quality with very few noise and high dynamic range.

Extra functions and enhanced body design

The HDC-2500 provides extra functions, as well as a body designed for more robustness and operational efficiency. The HDC-2500 also provides more flexibility on transmission by its side panel that can be easily replaced to fit HD Wireless (3rd Party) or Triax transmission (availability TBC) systems.

3G capable and double speed

The HDC-2500 is 3G and has multi-format capability, from 1080/100i (double speed) to 1080/50P, as well as a wide range of other formats including 1080/50i, 1080/25P and 1080/24P.

Features

Newly developed CCD and DSP

The CCD and DSP provides incomparable picture quality due to

the new 2/3-inch CCD & 16bit A/D converter, improved S/N Ratio, better low light and highlights handling. This enables more creative capabilities from variety shows to DMC productions and more realistic rendering of sport events.

1080/50P and 3G single link

The HDC-2500 offers 3G capability and Beyond 1080/50P format using the extra bandwidth: RGB 12bit output for creative shootings, 3D Transmission on one cable, extra fibre length up to 4km, double speed acquisition, gigabit Ethernet Trunk line, and more.

High reliability and operational efficiency

The HDC-2500 has been designed to be more robust than ever for all kind of Outside Broadcasting shooting conditions. Its new carbon fibre body provides a more solid camera body for less weight and reduced environmental footprint.

Compatibility with HDC-1500R Series accessories

As the HDC-2500 is fully compatible with HDC-1500R Series cameras, it inherits their very wide choice of peripherals such as viewfinders (HDVF), Remote Control Panels (RCP) and Sony's unique Large Lens Adapters (HDLA) system.

Specifications

General

Power requirement	240 V AC, 1.4 A (max.), 180 V DC, 1.0 A (max.), 12 V DC, 7 A (max.)
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Operating temperature	-20°C to +45°C (-4°F to +113°F)
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Storage temperature	-20°C to +60°C (-4°F to +140°F)
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Mass 4.5 kg (9 lb 15 oz)

Camera

Pickup device 3-chip 2/3-inch type Progressive CCD

Effective picture elements (H x V) 1920 x 1080

Signal format 1080/50i, 59.94i, 23.98p, 24p, 25p, 29.97p
1080/50p, 59.94p, 720/50p, 59.94p, 1080/100i, 119.88i, 720/100p, 119.88p

Spectrum system F1.4 prism system

Lens mount Sony bayonet mount

Built-in filters CC A: CROSS, B: 3200K, C: 4300K, D: 6300K, E: 8000K

Sensitivity (at 2000 lx, 3200K, 89.9% reflectance) F11 (1080/50i), F10 (1080/59.94i)

Built-in filters ND 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND

Signal-to-noise ratio -60 dB/-64 dB (w/NS max.)

(1080i, typical)

Horizontal resolution
(1080i)

1000 TV lines (at center)

Shutter speed
selection

1/60, 1/125, 1/250, 1/500,
1/1000, 1/2000 sec (50i)
1/100, 1/125, 1/250, 1/500,
1/1000, 1/2000 sec (59.94i)
1/32, 1/48, 1/96, 1/100, 1/125, 1/250,
1/500, 1/1000, 1/2000 sec
(23.98p/24p) 1/33, 1/50, 1/100,
1/125, 1/250, 1/500, 1/1000, 1/2000
sec (25p)
1/40, 1/60, 1/100, 1/120, 1/125,
1/250, 1/500, 1/1000, 1/2000 sec
(29.97p)
1/60, 1/125, 1/250, 1/500,
1/1000, 1/2000 sec (50p)
1/100, 1/125, 1/250, 1/500,
1/1000, 1/2000 sec (59.94p)

Modulation depth
(1080i, typical)

Y: 50% at 27.5 MHz (800 TV lines
with typical lens), Pb/Pr: 80% at 12
MHz

Input/output connectors

XLR-3-pin (female) (x1), mic or line

Audio input (CH1)	selectable
Audio input (CH2)	XLR-3-pin (female) (x1), AES/EBU or mic or line selectable
Mic 1 input	XLR-3-pin (female) (x1)
Return control input	6-pin (x1)
Prompter output/Genlock input/Return input	BNC (x1), 1.0 Vp-p, 75 Ω
Prompter	BNC (x1), 1.0 Vp-p, 75 Ω
DC input	XLR-4-pin (x1), 10.5 to 17 V DC
DC output	4-pin (x1), 10.5 to 17 V DC, 0.5 A (max.), 2-pin (x1), 10.5 to 17 V DC, 2.5 A (max.)
Test output	BNC (x1), 1.0 Vp-p, 75 Ω
SDI 1 output (with embedded audio)	BNC (x1) 3G-SDI, HD-SDI
SDI 2 output	BNC (x1) HD-SDI
SDI-MONI	BNC (x1) HD-SDI or SD-SDI selectable

Earphone output	Stereo minijack (1)
CCU	Electro-optical connector (x1)
Tracker	10-pin (x1)
Crane	12-pin (x1)
Intercom 1	XLR-5-pin (female) (x1)
Intercom 2	XLR-5-pin (female) (x1)
Remote	8-pin (x1)
Lens	12-pin (x1)
Viewfinder	20-pin (x1)

Supplied accessories

Supplied accessories	Operation manual (1), Cable clamp belt (1 set), Camera number label (1), Screws (+B3x8) (2)
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Related products



BVM-F250A

24.5-inch TRIMASTER EL™ OLED reference



BVM-F170A

16.5-inch TRIMASTER EL™ OLED reference



HDVF-EL30

OLED 0.7-inch colour Full HD viewfinder



HDVF-EL20

OLED 0.7-inch colour HD viewfinder

monitor with wide viewing angle



HKCU-SM100

CCU extension adaptor

monitor with wide viewing angle



HDCU-2500

Half-rack-size Camera Control Unit for HDC Series cameras

with 3.5-inch sub-LCD



PVM-A250 v2.0

25-inch TRIMASTER EL™ OLED high grade picture monitor



PVM-A170 v2.0

17-inch TRIMASTER EL™ OLED high grade picture monitor



HDCU-3100

IP enabled next generation Camera Control Unit



HZCU-CNFG50

ember+ protocol license for HDCU-5500, 3500, 3170 and 3100 camera control units



HZCU-SNMP50

SNMP Agent license for HDCU-5500, 3500, 3170 and HDCU-3100 camera control unit



RCP-3100

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



HDCU-3500

IP-ready Camera Control Unit (CCU) for HDC-3500 4K/HD system camera



HDCU-5000

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



HDCE-RX30

IP CCU extension adaptor for remote live production (receiver)



HDCE-TX30

IP camera extension adaptor for remote live production (transmitter)



HZCE-UHD30

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



HDLA-3505

Large Lens Adaptor



HDLA-3501

Large Lens Adaptor

extension adaptor

Gallery

