SONY

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.

Technical Specifications

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	-20°C to +45°C (-4°F to +113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
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 (1080i, typical)	-60 dB/-64 dB (w/NS max.)
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	
Audio input (CH1)	XLR-3-pin (female) (x1), mic or line 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)

Accessories

Camera Control Unit

CNA-1

Camera control network adaptor

Control Panels

HDFX-200

Digital Triax to Fiber Converter for HDC-2xxx & HDC-1xxx series

HDTX-200

Fiber to Digital Triax converter for HDC-2xxx & HDC-1xxx series

HZC-CSM10

PC Master Setup Unit for system cameras

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)

HKC-CN20

Interconnection adaptor for HDC-2500 Series cameras

HKC-T1500

CCD extension block adaptor (up to 50m) for HDC-1500R/1550R/1400R/1450R

HKC-TR27

Digital triax adaptor for HDC-2400/2500/2550

Viewfinders

HDVF-EL20

OLED 0.7-inch colour HD viewfinder

HDVF-EL30

OLED 0.7-inch colour Full HD viewfinder with 3.5-inch sub-LCD

HDVF-EL70

7.4-inch OLED Viewfinder for studio cameras

RCP-1000

Simple remote control panel with joystick type control

RCP-1500

Standard remote control panel with Joystick type control

RCP-1530

Slim remote control panel with joystick type control

Lens Adaptors

HDLA-1500

HD Large Lens Adaptor

HDLA-1505

HD Large Lens Adaptor

Option Boards and Modules

HDVF-EL75

7.4-inch OLED Viewfinder for portable cameras

HDVF-L10

3.5" Colour LCD HD Viewfinder

HDVF-L750

Full HD 7-inch LCD viewfinder

HDVF-L770

Full HD 7-inch LCD viewfinder, adjustable with large handle