

HDC-2400

3G multi format HD system camera



Overview

Offers 3G 1080/50P transmission as standard

The HDC-2400 system camera is part of the HDC-2500 Series - successor to the HDC-1500R Series - and incorporates Sony's advanced technologies for studio cameras. A 2/3-inch CCD and the Digital Signal Processing (DSP) with 16 bit A/D converter provides amazing picture quality with minimal noise and high dynamic range.

Extra functions and enhanced body design

The HDC-2400 has a camera body designed for exceptional robustness and operational efficiency. The HDC-2400 also provides more flexibility on transmission due to its side panel that can be easily replaced for HD Wireless (3rd Party) or Triax transmission (availability TBC) systems.

3G capable

The HDC-2400 is 3G and a multi-format product (1080/50i, 59.94i and 720/50p, 59.94p). It can be fully updated to the HDC-2500 by adding option keys (23.97p/25p, 50p/59.94p, 100i/119.88i).

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-2400 offers 3G capability and Beyond 1080/50P,59.94P 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-2400 has been designed for being more robust than ever for all kind of shooting conditions of Outside Broadcasters. Its new carbon fibre body provides a more solid camera body for less weight and environmental footprint.

- **Compatibility with HDC-1500R Series accessories**

As the HDC-2400 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 the Sony 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 CCD
● Effective picture elements (H x V)	1920 x 1080
● Signal format	1080/50i, 59.94i 720/50p, 59.94p
● Spectrum system	F1.4 prism
● Lens mount	Sony bayonet mount
● Built-in filters CC	Electrical (CC optical filters are available with optional HKC-DF20)
● Built-in filters ND	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND, 5: CROSS
● Sensitivity (at 2000 lx, 3200K, 89.9% reflectance)	F11 (1080/50i), F10 (1080/59.94i)
● 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) 1/60, 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	
●	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

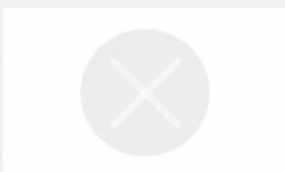
Control Panels



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-UG444
RGB 4:4:4 software key for HDC Series 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-DF20
Dual optical filter



HKC-T1500
CCD extension block adaptor (up to 50m) for HDC-1500R/1550R/1400R/1450R

Viewfinders



HDVF-20A
2-inch Type HD B/W CRT Viewfinder



HDVF-C550W
HD 5inch Colour Viewfinder for HD cameras



HDVF-C730W
6" Multi-format HD Colour LCD Viewfinder



HDVF-EL20
OLED 0.7-inch colour HD viewfinder



RCP-1000

Simple remote control panel with joystick type control



RCP-1500

Standard 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-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



HDVF-EL75

7.4-inch OLED Viewfinder for portable cameras



HDVF-L10

3.5" Colour LCD HD Viewfinder