

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).

This product contains pre-installed software and requires the purchase of licence keys to activate some functions.

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.

Specifications

General

| | |
|-------------------|--|
| | 240 V AC, 1.4 A (max.), |
| Power requirement | 180 V DC, 1.0 A (max.), 12 V DC, 7 A (max.) |

| | |
|-----------|-------------------------------------|
| Operating | -20 °C to +45 °C (-4 °F to +113 °F) |
|-----------|-------------------------------------|

temperature

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 | BNC (x1), 1.0 Vp-p, 75 Ω |

| | |
|------------------------------------|---|
| input/Return input | |
| 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)

Related products



BVM-F250A

24.5-inch TRIMASTER EL™ OLED reference monitor with wide viewing angle



BVM-F170A

16.5-inch TRIMASTER EL™ OLED reference monitor with wide viewing angle



HKCU-SM100

CCU extension adaptor



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



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



NETWORKED **LIVE**

HDCU-5000

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



NETWORKED **LIVE**

HDCE-RX30

IP CCU extension adaptor for remote live production (receiver)



NETWORKED **LIVE**

HDCE-TX30

IP camera extension adaptor for remote live production (transmitter)



HDLA-3505

Large Lens Adaptor



HDLA-3501

Large Lens Adaptor

Gallery

