

## 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 $\Omega$
Prompter	BNC (x1), 1.0 Vp-p, 75 $\Omega$
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 $\Omega$
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)

## 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. <br>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

