

## HDC-2550

Multiformat HD portable system camera with triax transmission interface



### Overview

#### Preliminary information

The HDC-2550 multi format HD portable system camera incorporates Sony's advanced technologies for studio cameras while offering wide-band triax connectivity across a broad choice of acquisition formats, including 1080/50i and 720/50p. Three high end 2/3-inch Progressive IT CCDs and Digital Signal Processing (DSP) LSI with 16 bit A/D converter provide amazing picture quality with very little noise and high dynamic range.

#### Exceptional operational flexibility

The HDC-2550 provides advanced features for more robustness and operational efficiency. Its side panel can be easily replaced to fit third party HD wireless capabilities, while the wide band triax transmission interface can be exchanged for an optional 3G optical fibre interface for extra flexibility. The camera also has the capability to upgrade to true digital triax for 1080/50p and 3D in the future.

### Features

#### **High quality CCD, 16-bit A/D-converts and DSP**

The CCD and DSP provides incomparable picture quality due to three 2/3-inch type Progressive IT Power HAD FX CCDs and 16bit A/D converter, improved S/N Ratio, better low light and highlights

handling. This enables more creative capabilities from variety shows to drama, movies and commercials productions, as well as more realistic rendering of sport events.

### **Wide band triax interface**

The HDC-2550 features a wide band triax interface that enables the camera to be directly connected to a triax infrastructure with no signal delay or compression used.

### **Broad range of HDTV frame rates**

The HDC-2550 offers a broad range of frame rates, including 1080/50i, 1080/59.94i, 720/50p and 720/59.94p. 1080PsF options include 23.98p, 24p, 25p and 29.94p.

### **Dual optical filters**

The HDC-2550 features CC and ND optical filters to enhance creativity.

### **High reliability and operational efficiency**

The HDC-2500 Series has been designed to be exceptionally robust to suit all kinds of Outside Broadcast shooting conditions. Its body uses carbon fibre for less weight and a smaller environmental footprint.

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

As the HDC-2550 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. The triax transmission system is compatible to that employed by HDC-1550 and HDC-1450, thus enhanced flexibility and interchangeability with existing equipment is provided.

### **Optional 3G fibre interface and wireless capabilities**

The triax interface is exchangeable with an optional 3G optical fibre interface to increase the camera's flexibility. The camera's

exchangeable side panel also allows for the installation of third party wireless transmission systems.

## Specifications

### General

Power requirements	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	4.9 kg (10 lb 13 oz)
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### Camera

Pickup device	3-chip 2/3-inch type CCD
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Effective picture elements (H x V)	1920 x 1080
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Signal format	1080/50i, 59.94i 720/50p, 59.94p
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Spectrum system	F1.4 prism
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Lens mount	Sony bayonet mount
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Built-in filters CC	A: CROSS, B: 3200K, C: 4300K, D: 6300K, E: 8000K
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Built-in filters ND	1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND
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
<h3>Input/output connectors</h3>	
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
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-MONI	BNC (x1) HD-SDI or SD-SDI selectable
Earphone output	Stereo minijack (1)
HDFX	Triax 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)
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Lens	12-pin (x1)
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Viewfinder	20-pin (x1)
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## Supplied accessories

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

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## Gallery

