SONY

HDC-1700

Multi format HD portable system camera

Overview

Portable system camera with 16-bit A/D conversion and fibre transmission

The HDC-1700 dual-format HD system camera is equipped with sophisticated three-chip 2/3-inch Power HAD FX CCD image sensors and the latest 16-bit A/D converter to provide superior picture quality. The HDC-1700 supports HD and SD signal formats including 1080/50p, 1080/60p, 720/50p, and 720/59.94p. 1080PsF frame rates (24p, 25p, 30p) are available as an optional software update(HZC-PSF20).

Full compatibility with HDC-2500 and HDC-1500 cameras systems

For increased flexibility, there is full compatibility with HDC-2500 and HDC-1500 cameras and accessories, and HDCU-1000/1500 and HDCU-2000/2500 CCUs, allowing the HDC-1700 to be integrated into a wide variety of workflows. The HDC-1700 is a truly cost-effective camera that also delivers genuine user-friendliness.

Upgrade program for 4K

With the optional HKCU-2020 4K/HDR Processor Board and HZC-PVR20 Signal Format Software, the HDC-1700 can be upgraded for 4K resolution content creation as well as 4K Live HDR (High Dynamic Range).

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

Features

Superb image quality with cutting-edge technologies

With three high resolution 2/3-inch Power HAD FX CCD image sensors, and the advanced digital signal processor (DSP) LSI provides superior S/N levels as well as better functionality. Also, a 16-bit A/D converter produces optimal visual imagery and enhanced black reproduction.

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Adaptive Matrix function

With the Adaptive Matrix function, images with well-balanced details can be reproduced even in strong monochromatic light conditions, such as at stage events.

Auto Lens Chromatic Aberration Compensation (ALAC-2)

Alongside the advanced DSP LSI, the ALAC-2 function automatically compensates for lens chromatic aberration*. ALAC-2 works in both horizontal and vertical directions.
*Lenses need to be corresponded to ALAC feature.

Optional accessories expand usage

There are many optional accessories for the HDC-1700, including the HKC-DF20 Dual Optical Filter Unit and HZC-PRV20 Signal Format Software (1080/50p, 60p). These options support a range

of different shooting scenes and requirements.

Spirit level
With the MEMS-Acceleration Sensor, the horizontal level can be displayed on the viewfinder screen, which helps particularly with wide-angle shooting.

HDLA large lens adaptor maximises operability
HDLA-1500, HDLA-1505, and HDLA-1507 adaptors maximise the operability of the HDC-1700. These optional adapters provide flexibility when applications require a large studio lens, and camera operators want to maintain hard camera control. They facilitate simple connectivity without time-consuming wiring and adjustments.

Optical fibre transmission with HDCU-1700, HDCU-1000/1500 and HDCU-2000/2500 CCUs
The HDC-1700 is capable of long-distance signal transmission with any HDCU Camera Control Unit (except HDCU-900/950) including the HDCU-1700, HDCU-1000, HDCU-1500, HDCU-2000 and HDCU-2500. The maximum cable extension varies with the HDCU type connected to the HDC-1700. In the case of the HDCU-1700, HDCU-1500 or HDCU-2500, the maximum cable extension is 2,000m. In the case of the HDCU-1000, the maximum cable extension is 3,000m. And in the case of the HDCU-2000, the maximum cable extension is 4,000m.

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 section

Pickup device	3-chip 2/3-inch type Progressive CCD
Effective picture elements	1920 x 1080 (H x V)
Signal format	1080/50i, 1080/59.94i, 720/50p, 720/59.94p 1080/50p*2,1080/59.94p*2 1080/23.98p*3, 1080/24p*3, 1080/25p*3, 1080/29.97p*3 *2 HZC-PRV20 is required. *3 HZC-PSF20 is required.
Spectrum system	F1.4 prism system
Built-in filters	(ND) 1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND, 5: CROSS
Sensitivity	F10 (1080/59.94i mode), F11 (1080/50i mode) (at 2000 lx, 89.9% reflectance)

Signal-to-noise ratio (typical)	Typical -60 dB

Input/Output

SDI output	BNC (x1) (HD-SDI / SD-SDI)
Prompter output / Genlock input	BNC (x1), 1 Vp-p, 75 Ω
Test output	BNC (x1), 1 Vp-p, 75 Ω
Mic input	XLR 3-pin (x1) (female)
Audio input (Ch1, Ch2)	XLR 3-pin (x2) (female)
Intercom 1 / Intercom 2	XLR 5-pin (x2) (female)
Earphone output	Stereo mini-jack 3-pin (x1)
Return control input	6-pin (x1)
Tracker	10-pin (x1)
Crane	12-pin (x1)
Remote	8-pin (x1)
Lens	12-pin (x1)
Viewfinder	20-pin (x1)
	Optical / electrical multi-

CCU	connector (x1)
DC input	XLR 4-pin (x1) (DC 10.5 to 17V)
DC output	Mini type 4-pin (x1) (DC 10.5 V to 17V, max. 0.5 A)
USB	Type A 4-pin (x1)

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

RCP-3100

Joystick type of remote control panel for HDC/HSC/HXC series cameras.
5 units in 19-inch EIA rack.

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

HZCE-UHD30

IP camera extension adaptor for remote live production (transmitter)	Software license for 4K IP output from HDCE-TX30 IP camera extension adaptor

Gallery