

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.

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.

- **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.

- **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.

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 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)
● CCU	Optical / electrical multi-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)

Accessories

Camera Control Unit



CNA-1
Camera control network adaptor

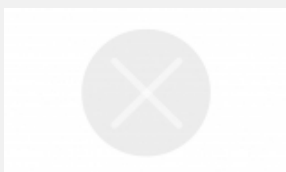
Control Panels



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



HXC-CSM10
PC Master Setup Unit for system 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-EL20
OLED 0.7-inch colour HD viewfinder



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



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-L10

3.5" Colour LCD HD Viewfinder



HDVF-L750

Full HD 7-inch LCD viewfinder



HDVF-L770

Full HD 7-inch LCD viewfinder, adjustable with large handle