

## 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.)
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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)

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## Camera section

Pickup device                3-chip 2/3-inch type Progressive  
CCD

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Effective picture  
elements                      1920 x 1080 (H x V)

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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.

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Spectrum system            F1.4 prism system

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Built-in filters                (ND) 1: CLEAR, 2: 1/4ND, 3: 1/16ND,  
4: 1/64ND, 5: CROSS

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Sensitivity                      F10 (1080/59.94i mode),  
F11 (1080/50i mode) (at 2000 lx,  
89.9% reflectance)

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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



### **HDCU-3100**

IP enabled next generation 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**



### **HDCE-RX30**



### **HDCE-TX30**



### **HZCE-UHD30**

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

IP CCU extension  
adaptor for remote  
live production  
(receiver)

IP camera extension  
adaptor for remote  
live production  
(transmitter)

Software license for  
4K IP output from  
HDCE-TX30 IP camera  
extension adaptor

## Gallery

