SONY

HDC-1700HD Camera System
HDCU-1700 Camera Control Unit

Where image quality and reliability are paramount considerations, the cost-effective HDC-1700 excels. At the heart of the camera are three of Sony's advanced 2/3-inch CCD image sensors, feeding a 16-bit analog-to-digital converter for outstanding pictures. You get flexible signal outputs including standard 1080i and 720p, plus 1080/60p and 1080/24p, with software sold separately. The camera takes advantage of the full ecosystem of Sony's popular HDC-2000 series accessories. Take your pick of LCD and OLED viewfinders, large lens adaptors and remote control panels, all sold separately. From sports to news to talk, the HDC-1700 is a stellar performer.

Superb images with three 2/3-inch CCDs

Three of Sony's proprietary 2/3-inch CCD image sensors and 16-bit analog-to-digital conversion help deliver nuanced grayscale and rich reproduction of dark scenes. A powerful Digital Signal Processor (DSP) LSI contributes to excellent low-noise performance.

Adaptive matrix

Stage events with strong, monochromatic light can play havoc with your image. Sony's adaptive matrix helps you create beautifully balanced pictures.

Auto Lens Chromatic Aberration Compensation (ALAC-2)*

Sony's DSP LSI features ALAC-2 chromatic aberration compensation, which works in both horizontal and vertical directions.

Superb flexibility

Available accessories enable the HDC-1700 to fulfill a full spectrum of live production roles. Accessories include the HZC-PSF20 24.98/24/25/29.97p software, HZC-PRV20 1080 50p/59.94p software and HKC-DF20 dual optical filter unit, all sold separately.

Horizontal level display

To assist in framing, a horizontal level can be displayed in the viewfinder. Especially useful in wide-angle shots, the feature is made possible by a built-in MEMS acceleration sensor.

* Lenses need to be corresponded to ALAC feature.

Large lens adaptors

To provide full hard camera operation with studio and field box lenses, the HDC-1700 accepts Sony's popular large lens adaptors: the HDLA-1500, HDLA-1505 and HDLA-1507, all sold separately. You get simple connectivity and amazingly fast set-up.
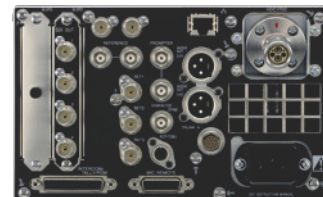
Optical fiber transmission

Enjoy signal transmission up to 2,000 meters with the HDCU-1700 camera control unit, and up to 4,000 meters with the HDCU-2000. The HDC-1700 is interchangeable with the HDC-2000 series in a system.

HDCU-1700 camera control unit

The HDC-1700 connects via optical fiber to the HDCU-1700, a half-rack portable camera control unit (CCU). The CCU operates camera menu settings and displays fiber condition on the front panel. An option board slot can support analog VBS, PIX, WFM and component video outputs with the HKCU-1001 or HKCU-1003, sold separately. An expansion slot accommodates four HD/SD SDI outputs at up to 1080/50p and 59.94p with the HKCU-2007, sold separately.

A full range of accessories

The camera works with all the same familiar accessories as Sony's highly popular HDC-1500 and HDC-2000 series cameras.

Digital **HDVS**

Optional Accessories

All accessories that are used with the HDC-1500 and HDC-2500 Series can be used with the HDC-1700.

HKC-T1500 HD CCD Block Adaptor	**RCP-1500** Remote Control Panel	**RCP-1000** Remote Control Panel	**MSU-1000** Master Setup Unit	**MSU-1500** Master Setup Unit	**HDVF-EL20** .7" OLED Color Viewfinder	**HDVF-EL30** .7" OLED VF w/ 3.5" LCD Color Viewfinder

HDVF-L750 7-inch* LCD Color Viewfinder	**HDVF-L770** 7-inch* LCD Color Viewfinder	**HDVF-EL70** 7.4-inch* Color HD Viewfinder	**HDVF-EL75** 7.4-inch* Color HD Viewfinder	**HDLA-1500** Large Lens Adaptor (to attach the HDVF-EL70/700A)	**HDLA-1505** Large Lens Adaptor (to attach the HDVF-EL75/L770/ L750/C730W/550/C550W)

* Viewable area, measured diagonally.

Options for HDC-1700

HKC-DF20	Dual Optical Filter Unit
HZC-PSF20	1080/23.98p, 24p, 25p, 29.97p Signal Format Software License
HZC-PSF20M	1080/23.98p, 24p, 25p, 29.97p Signal Format Software License (30-day limited period)
HZC-PSF20W	1080/23.98p, 24p, 25p, 29.97p Signal Format Software License (7-day limited period)
HZC-PRV20	1080/50p, 59.94p Signal Format Software License
HZC-PRV20M	1080/50p, 59.94p Signal Format Software License (30-day limited period)
HZC-PRV20W	1080/50p, 59.94p Signal Format Software License (7-day limited period)

Options for HDCU-1700

HKCU-1001	SD Encoder Unit (VBS out, WF out, PIX out)
HKCU-1003	Multi Interface Unit (VBS out, WF out, PIX out, component video out)
HKCU-2007	HD SDI Output Expansion Unit (HD SDI out)

Specifications

HDC-1700	
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	-4°F to +113°F (-20°C to +45°C)
Storage temperature	-4°F to +140°F (-20°C to +60°C)
Weight	9 lb 15 oz (4.5 kg)
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**,1080/59.94p** 1080/23.98p†, 1080/24p†, 1080/25p†, 1080/29.97p†
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)

HDCU-1700	
General	
Power supply	100 V AC to 240 V AC, 50/60 Hz
Operating temperature	14°F to 104°F (-10°C to +40°C)
Storage temperature	-4°F to +140°F (-20°C to +60°C)
Dimensions (W x H x D)	8 x 5 x 16 1/4 inches (202 x 127 x 410 mm) (excluding protrusions)
Weight	14 lb 12 oz (6.7 kg)
Input/Output	
Camera	Optical / electrical multi-connector (x1) , 180V DC power supply
Intercom/Tally/PGM	D-sub 25-pin (x1) female
RCP/CNU	8-pin (x1)
TRUNK A	12-pin (x1)
LAN (RCP/MSU)	RJ-45 8-pin (x1)
SDI (HD/SD) / VBS return input	BNC (x3) (HD / SD)
Prompter input	BNC (x2), loop-through output, VBS, 1 Vp-p, 75 Ω
Reference input	BNC (x2), loop-through output
Audio output (Ch1, Ch2)	XLR 3-pin (x2) (male), 0 dBu / -20 dBu / +4 dBu
Mic remote	D-sub 15-pin (x1)
Sync output	BNC (x1)
Character output	BNC (x1)
HD-SDI / SD-SDI output	BNC (x4)

** HZC-PRV20 is required.
† HZC-PSF20 is required.