HDC-1700
HD Camera System

HDCU-1700
Camera Control Unit

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Sony introduces the new HDC-1700 Dual-format HD Camera System equipped with sophisticated three-chip 2/3-inch 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 1080/50i, 1080/59.94i, 720/50p, and 720/59.94p. For flexibility, there are many HDC Series accessories that can be utilized, such as optional HD viewfinders and large lens adaptors. And the HDC-1700 is a truly cost-effective camera that also delivers genuine user-friendness.

Superb Image Quality with Cutting-edge Technologies

With 2/3-inch CCD image sensors, the newly developed 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.

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)

With the newly designed 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.

Options Expand Usage

There are many optional accessories for the HDC-1700, including the HKC-DF20 Dual Optical Filter Unit and HZC-PSF20 Signal Format Software (1080/23.98p, 24p, 25p, 29.97p). These options supports 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 Maximizes Operability

HDLA-1500, HDLA-1505, and HDLA-1507 adaptors maximize 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.
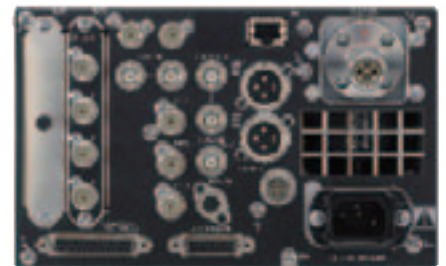
1.5 Gbps Optical Fiber Transmission

The HDC-1700 is capable of long-distance signal transmission up to 2,000 meters with the HDCU-1700 Camera Control Unit.
* The HDC-1700 is only used in combination with the HDCU-1700.

HDCU-1700 Camera Control Unit (CCU)

The HDC-1700 can be configured with the HDCU-1700 dedicated camera control unit (CCU), which is a 19-inch half-rack size portable CCU for fiber cable connection. The HDCU-1700 CCU can control camera menu settings and display fiber condition on the front panel. It has an expansion slot for the four HD/SD SDI outputs board; and the option board slot is used for HKCU option cards to expand the CCUs output capability to include VBS out, PIX out, WFM out, and component video out.
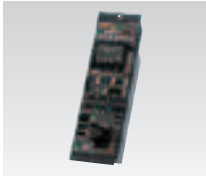
Digital **HDVS**

Optional Accessories

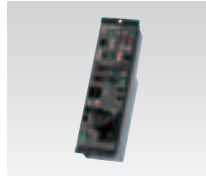All accessories that are used with the HDC-1500 and HDC-2500 Series can be used with the HDC-1700.
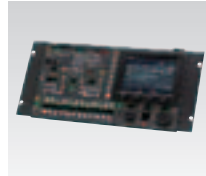
*Viewable area, measured diagonally.

HKC-T1500
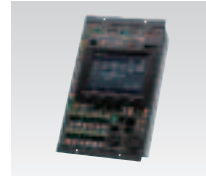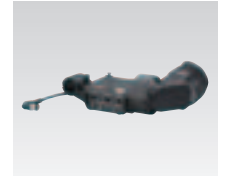HD CCD Block Adaptor

RCP-1500
Remote Control Panel

RCP-1000
Remote Control Panel

MSU-1000
Master Setup Unit

MSU-1500
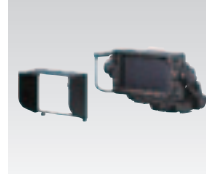Master Setup Unit

HDVF-200
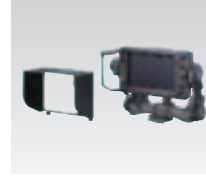2.0-inch* CRT B/W Viewfinder

HDVF-20A
2.0-inch* CRT B/W Viewfinder
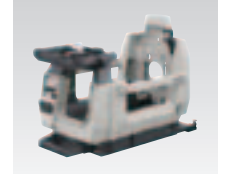
HDVF-C550W
5.0-inch* LCD Color Viewfinder
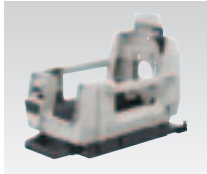
HDVF-C730W
6.3-inch* LCD Color Viewfinder

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/C730W/550/C550W)

Options for HDC-1700

HKC-DF20	Dual Optical Filter Unit
HZC-PSF20	1080/23.98p, 24p, 25p, 29.97p Signal Format Software

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	-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 1080/23.98p*, 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	-10°C to +40°C (14°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)	202 x 127 x 410 mm (8 x 5 x 16 1/4 inches) (excluding protrusions)
Mass	6.7 kg (14 lb 12 oz)
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)
TRUNK LINE	D-sub 9-pin (x1) female, RS-232C/422 system
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-PSF20 is required.

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