

HXC-D70 HD/SD System Camera





Opening a New World of HD Production

Sony introduces an ideal solution for HD/SD small studio operations with the HXC-D70 Full HD System Camera, HXCU-D70 Camera Control Unit (CCU), and DXF-C50WA 5-inch Color LCD Viewfinder.

The newly developed HXC-D70 is a high-performance camera which inherits field-proven operability from the highly regarded DXC-D Series of system cameras.

The HXC-D70 is equipped with the latest digital HD multi-core cable transmission technology, which allows the camera to be configured with the newly developed HXCU-D70 CCU.

Furthermore, the existing CCU-D50 CCU can also be used with the HXC-D70 for migration from SD to HD live production.



Excellent Picture Quality

Three Exmor full-HD CMOS sensors

The HXC-D70 is equipped with three 2/3-inch-type Exmor CMOS sensors, which deliver superior picture performance with full-HD resolution.

Due to Sony's advanced sensor technologies, this imager provides an brilliant sensitivity (F12 for 1920 x 1080/59.94i mode, F13 for 1920 x 1080/50i mode), a remarkable signal-to-noise ratio of 59 dB, and high horizontal resolution of 1,000 TV lines*.

All of these excellent features result in high-quality digital signals with extremely low noise. This significantly enhances shooting in low-light environments.

In addition to the camera's high performance, a wide range of output formats are available including 1080i/50, 1080i/59.94, 720p/50, 720p/59.94, 576i/50, and 480i/59.94.

* In 1920 x 1080i mode

Variety of Picture Adjustment Functions

Skin-tone detail

This function allows adjustment (emphasis or suppression) of the detail level for a specific hue or chroma area in the image, such as human skin tones.

Selection of multiple gamma tables

Seven types of standard and four types of hyper gamma table are featured. The hyper gamma values enable cinema-like image creation with wide dynamic range

Knee saturation

Hue and chroma in highlighted areas can be adjusted to reproduce natural human skin tones under strong lighting.



Skin-tone detail control off



Skin-tone detail control on

Simulated images



Knee Saturation OFF



Knee Saturation ON

Simulated images

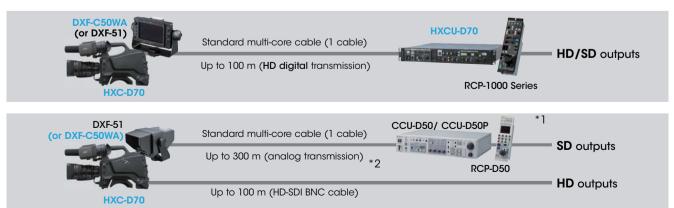
System Versatility

The HXC-D70 can be remotely controlled from the HXCU-D70 Camera Control Unit using a standard multicore cable.

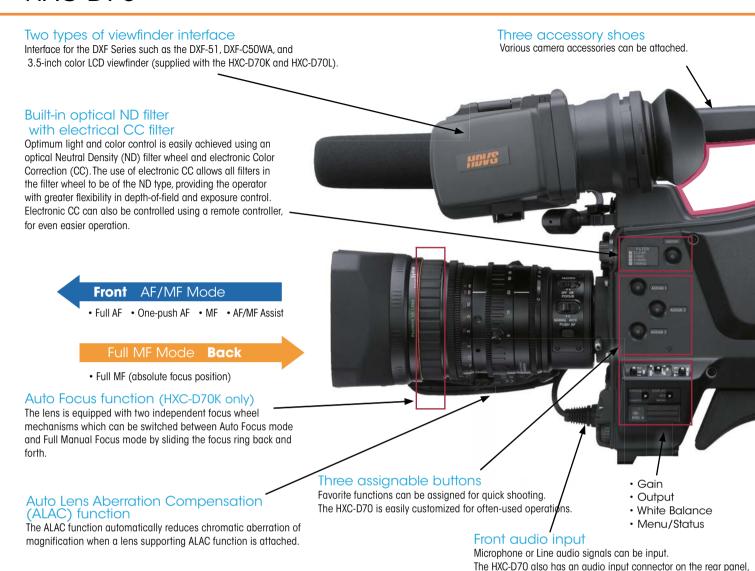
With Sony's newly developed signal transmission technologies, HD signals, electrical power, and communication signals can be transferred via a single multi-core cable.

Sony's BP-L Series battery can also be directly attached to allow stand-alone operation.

The HXC-D70 is ideal for a wide range of standard-definition (SD) and high-definition (HD) productions.



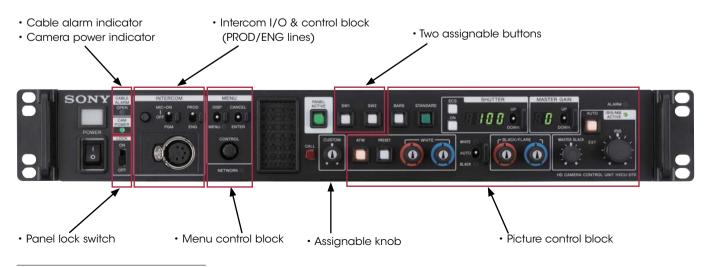
- *1 Some functions of the HXC-D70 cannot be controlled via the CCU-D50 and RCP-D50.
- *2 •75 m (246 feet) for component digital-SDI transmission via a CCZ-A cable (26-pin)
 - •200 m (656 feet) for component digital-SDI transmission using a separate low-loss coaxial video cable in addition to a CCZ-A cable
 - •Analog transmission for longer control distances of up to 300 m (984 feet) via a CCZ-A cable

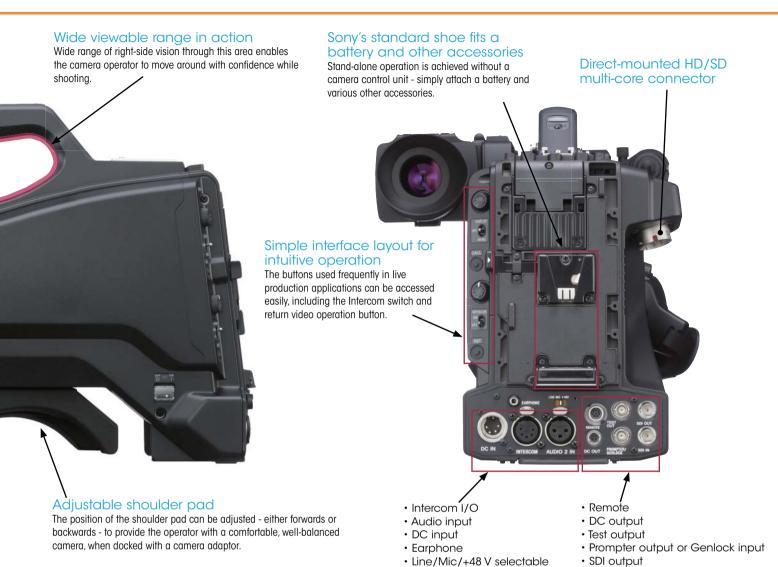


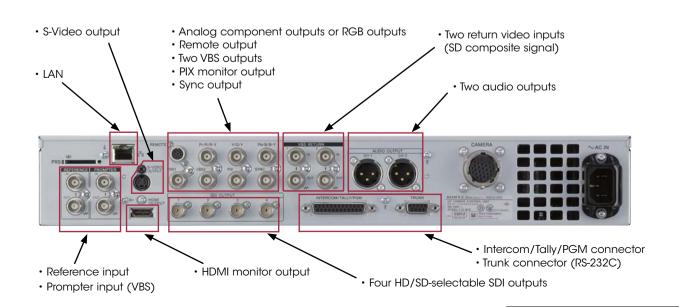
HXCU-D70 Camera Control Unit

The HXCU-D70 is equipped on its front panel with often-used switches and controls for easy camera operation. It can also be remotely controlled without using a remote control panel (RCP). The HXCU-D70 provides rich camera control functions.

which allows stereo recording.

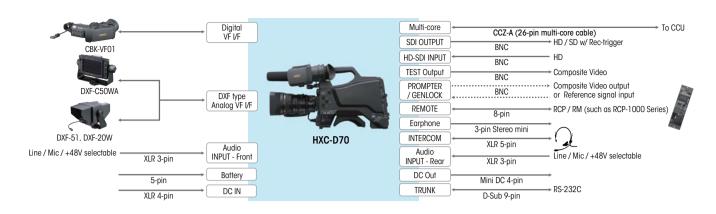


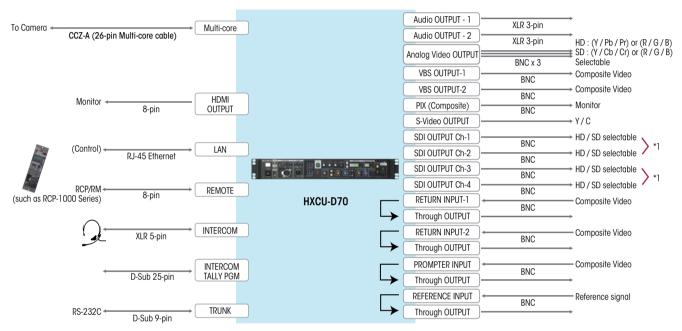




· HD-SDI input

Interface of HXC-D70 and HXCU-D70





^{*1} SDI OUTPUT Ch-1 to Ch-4 connectors output signals in HD-SDI or SD-SDI signal format. The format is set together in a pair as channel 1&2 and 3&4. SDI OUTPUT Ch-3 and Ch-4 connectors can also output signals with a superimposed character or marker display.

DXF-C50WA 5-inch LCD Color Viewfinder

- 5-inch color IPS-LCD Viewfinder with wide viewing angle
- Image Magnification and Peaking Plus functions to assist focusing
- Ideal viewfinder for the HXC-D70 in HD/ SD live shooting applications





Variety of supplied accessories package

HXC-D70H

SONY

· Camera Main Unit

HXC-D70L



- · Camera Main Unit
- Supplied Viewfinder
- Microphone

HXC-D70K



- · Camera Main Unit
- Supplied Viewfinder
- Microphone
- · Auto Focus Lens

Optional Accessories



DXF-C50WA 5-inch*1 LCD Color Viewfinder



DXF-51 5.0-inch*1 CRT B&W Viewfinder



VFH-570 Viewfinder Hood for DXF-C50WA and



CBK-VF01 3.5-inch*1 LCD Color Viewfinder



DXF-20W 2.0-inch*1 CRT B&W Viewfinder



RCP-1000 Remote Control Panel



RCP-1001 Remote Control Panel



RCP-1500
Remote Control Panel



RCP-1501 Remote Control Panel



RCP-1530 Remote Control Panel



VCT-U14 Tripod Adaptor



CCZ-A5/A10/A25/A50/ A100 Connecting Cable (26-pin - 26-pin)



WRR-861A/861B UHF Synthesized Tuner



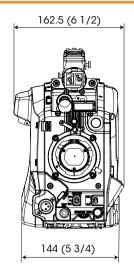
DWR-S01DDigital Wireless Receiver*2

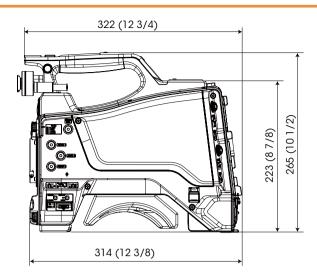
- *1 Viewable area measured diagonally
- *2 The DWA-01D Digital Wireless Adaptor is required. Some functions of the DWR-S01D are limited when the CCU-D50 Camera Control Unit is connected.

Dimensions

Unit: mm (inches)

HXC-D70





Specifications

General	
Power requirement	12 V AC (10.5 V to 17 V)
Operating temperature	-10°C to +45°C (14°F to +113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Mass	3.4 kg (7 lb 7.9 oz)
Camera section	
Pickup device	3-chip 2/3-inch type Exmor Full-HD CMOS
ffective picture elements (H x V)	1920 x 1080
Signal format	Selectable from 1080i/59.94, 720p/59.94, 1080i/50, 720p/50
Spectrum system	F1.4 prism system
Built-in filters	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
Sensitivity	F12 (typical) (1920 x 1080/59.94i mode),
	F13 (typical) (1920 x 1080/50i mode)
	(at 2000 lx, 3200 K, 89.9% reflectance)
Signal-to-noise ratio (typical)	Approx. 59 dB (Y) (typical)
lorizontal resolution	1,000 TV lines or more (in 1920 x 1080i mode)
	920 TV lines (in SD mode)
Input/Output	
ludio input	XLR 3-pin (x2, at front panel and rear panel)
rompter output/Genlock input	BNC (x1), 1 Vp-p, 75 Ω
OC input	XLR 4-pin (x1)
OC output	4-pin (x1)
est output	BNC (x1)
ID-SDI input	BNC (x1)
DI output	BNC (x1)
arphone output	Mini-jack 3-pin (x1)
CCU	CCZ 26-pin (x1)
runk	D-sub 9-pin, female (x1), RS-232C interface
ntercom	XLR 5-pin, female (x1)
Remote	8-pin (x1)
/iewfinder	Digital interface (x1) and DXF type analog interface (x1)

Viewfinder (HXC-D70K/D70L only) (1), Monaural microphone (HXC-D70K/D70L only) (1), Windscreen (1) (HXC-D70K/D70L only), Lens mount cap, Flange back adjustment chart (HXC-D70K only), Auto focus lens (HXC-D70K only) (1), Operating Instructions (1), CD-ROM (1)

General	
Power supply	100 V AC to 240 V AC, 50/60 Hz
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)	482 x 66 x 360 (19 x 2 5/8 x 14 1/4 in, 1.5U rack-mount size)
Mass	6.5 kg (14 lb 5.2 oz)
Input/Output	
Camera	CCZ 26-pin (x1)
Intercom/Tally/PGM	D-sub 25-pin (x1) female
	 Intercom (PROD and ENG), 4W/RTS/CC, 0 dBu
	• TALLY (R, G)
	 PGM (x1) system, -20/0/+4 dBu
Remote	8-pin (x1)
Trunk	D-sub 9-pin (x1) female, RS-232C system
LAN	RJ-45 8-pin (x1) Control
SDI output	BNC (x4) HD/SD-selectable at each pair of two outputs
Analog video output	BNC (x3) Selectable from HD (Y/Pb/Pr or R/G/B) or SD (Y/Cb/Cr or R/G/B)
S-Video (Y/C) output	Mini DIN 4-pin (x1)
VBS output	BNC (x2)
HDMI monitor output	Type A 19-pin (x1), HDMI version: Ver. 1.3
PIX (monitor, VBS) output	BNC (x1)
Audio output	XLR 3-pin (x2)
Return input (VBS)	BNC (x2) with loop-through output BNC (x2)
Prompter input (VBS)	BNC (x1) with loop-through output BNC (x1)
Reference input	BNC (x1) with loop-through output BNC (x1)
	HD: SMPTE 274M, tri-level sync, 0.6 Vp-p, 75 Ω
	SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω ; PAL: 0.3 Vp-p, 75 Ω)
Intercom headset	XLR 5-pin (x1)

(C-D70K
2/3-type Sony bayonet
16x (optical), servo/manual
f = 8 mm to 128 mm
(the equivalent of 31.5 mm to 503 mm on a 35 mm lens)
F1.9 to F16 and Close, auto/manual selectable
AF/MF/Full MF selectable, 800 mm to ∞ (MACRO OFF),
50 mm to ∞ (MACRO ON, Wide), 732 mm to ∞ (MACRO ON, Tele)
ON/OFF selectable, shift lens

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The HXC-D70 and HXCU-D70 are produced at Sony EMCS Corporation's Tokai Technology Center, which has received ISO14001, the Environmental Management System certification.

