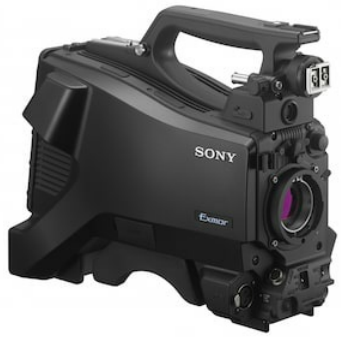
SONY

HXC-FB75H

Affordable, three 2/3-inch Exmor CMOS sensor, full HD/SD Studio Camera



Overview

Cost effective system camera ideal for small studio operations, conference events and house of worship applications

Sony introduces an ideal solution for entry level HD & SD live production, delivering better quality and performance for live production.
The HXC-FB75 is a high-performance, yet affordable, HD camera system that inherits Sony's proven field-proven operability from the highly regarded DXC-D Series of system cameras. The camera is equipped with three 2/3-inch Full HD Exmor CMOS sensors to provide excellent sensitivity (F12 at 1080i/60) with a low noise ratio for clear images. Those sensors are common to the HXC-P70, HXC-D70 and PXW-X400, and enable perfect integration with those cameras which gives you more flexibility. In addition, a wide range of output formats are available, including 1080i/59.94,50, 1080PsF/29.97,25, 720p/59.94,50, 480i/59.94 and 576i/50. Smooth and precise focusing is enabled by focus assist function and the latest viewfinder options. Video/Audio and control signal transmission, with power, can extend up to 350m via Hybrid Type Optical Fibre Cable. The camera is also controllable from a CCU panel and remote controller.

*HXC-FB75KC: [Camera head: viewfinder, mic and lens]
*HXC-FB75H: [Camera head, only]

Features

Full HDExmor CMOS sensors

The HXC-FB75 features three 2/3-inch Exmor CMOS sensors to produce excellent HD pictures.

Captures a variety of HD images

The HXC-FB75 produces a variety of selectable progressive and interlace HD signal formats, including 1080i/59.94,50, 1080PsF/29.97,25, 720p/59.94,50

SD down-converter

Down converted SD signal output from HXCU-FB70

Hybrid-type optical fibre cable connection to CCU extends signal transmission with power supply to 350m

Connected to the HXCU-FB70, hybrid type optical fibre cable with a Neutric connector can extend signal transmission with required power supply up to 350m. Full camera control is possible through a user-friendly operational panel designed specifically to work with the HXC series camera.

Long-distance transmission up to 10km with single-mode fibre cable

In the case of connection with a single-mode fibre cable (SMF), transmission can extend up to 10km, if you are using a local power supply. In many facilities the SMF already laid as infrastructure, it enables you to install the camera system quickly and easily.

HDVF interface for connecting a variety of viewfinders

The HXC-FB75 has an HDVF interface that allows the latest HD portable viewfinders to be used, as well as all types of large HDVF viewfinders.

Wide range of image control functions

The system camera is full of creative image control functions

such as MultiMatrix, Skin Tone Detail, Low Key Saturation, Knee Saturation, and Auto Lens Aberration Compensation (ALAC).

HXC-FB75KC variant of this model includes a digital HD viewfinder, HD lens and Monaural microphone.

HDVF-L10 3.5-inch QHD colour LCD monocular viewfinder offers better and easier focusing.
A x 20 HD portable lens and a monaural microphone are also included as an all-in-one camera package.

Specifications

General	
Power requirement	CCU: DC48V, 2.8A (max.) Ext.DC In: DC12V, 5.4A (max.)
Power Consumption	Approx.18W (Camera body only)
Operating temperature	-10°C to +45°C (14°F to +113°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x H x D)*1	162.5 x 265 x 322 mm 6 1/2 x 10 1/2 x 12 3/4 inches
Mass	Main body only : Approx. 3.3 kg Approx. 7 lb 4.4 oz

Camera section

Pickup device	3-chip 2/3-inch type CMOS
Effective Picture Elements	1920 x 1080 (H x V)
Signal format	HD: 1080/59.94i, 1080/50i, 1080/29.97PsF, 1080/25PsF, 720/59.94p, 720/50p SD: 480/59.94i, 576/50i
Spectrum system	F1.4 prism system
Lens Mount	Sony 2/3"-type bayonet mount
Built-in Filters	CC: Electrical ND: 1; CLEAR, 2; 1/4ND, 3; 1/16ND, 4; 1/64ND
Sensitivity (at 2000 lx, 3200K, 89.9% reflectance)	F12 (59.94 Hz), F13 (50 Hz)
Signal-to-noise Ratio	Typical 60dB*2 (1080/59.94i)
Modulation Depth	HD : 45% or higher at 27.5 MHz (1080i)
Horizontal Resolution	1,000 TV lines or higher
Gain	-3, 0, 3, 6, 9, 12 dB
Shutter Speed	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 sec (59.94i mode)

	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 sec (50i mode)
Shutter Speed (Slow Shutter (SLS))	2, 3, 4, 5, 6, 7, 8-frame accumulation (Only for HD1080 mode)

Input/Output	
Audio 1 IN/Audio 2 IN	XLR type: 3-pin, female (1 each) MIC IN: -60dBu (Up to -20dBu can be set by using menu or HXCU-FB70), balanced LINE IN: 0dBu, balanced
Intercom	XLR type, 5-pin, female (1)
Earphone	Stereo minijack (1)
DC Input	XLR-type 4-pin (x1), DC 10.5 V to 17 V
DC Output	4-pin (1), DC 10.5 V to 17 V, 1.5 A (max.)
Prompter/Genlock	BNC (x1); Gen-Lock In or Prompter Out
SDI Input	BNC type (1), for Return
SDI Output	BNC (x1), HD-SDI or SD-SDI selectable

Test Output	TEST Out (Analog output with/without characters), or HD/SD Sync Out
TRUNK	TRUNK LINE D-sub 9-pin, female (1) RS-232C
CCU	Optical Fiber (x1), CCFN cable or Single Mode Fiber cable (LC type)
Distance of Power Supply (with HXCU-FB70)	350m (max.) by CCFN Sony Hybrid Type Fiber Cable with Portable Lens Installed
Distance of Single Mode Fiber Cable (with HXCU-FB70)	10km (max.) by Single Mode Fiber Cable (LC type) with Local Power Supply
Remote	8pin (x1)
USB	USB 2.0 (x1)
EXT Input/Output	D-Sub 9pin, female (x1)
Viewfinder	20-pin (1), for HDVF only
Lens	12-pin (x1)

Display (Viewfinder supplied)

Aspect Ratio	16:9

Picture Elements	960(H) x3 x 540(V) RGB stripe array

Supplied Accessories

Supplied Accessories	Operation Guide (1) Operation Manual (CD-ROM 1), JP, GB, FR, DE, IT, ES, CS Lens Mount Cap (1) Cable clamp belt (1)

Notes

*1	The values for dimensions are approximate.
*2	The value is in NS (Noise Suppressor) : ON mode.

Gallery