

## 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.)
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Power Consumption	Approx.18W (Camera body only)
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Operating temperature	-10°C to +45°C (14°F to +113°F)
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Storage temperature	-20°C to +60°C (-4°F to +140°F)
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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
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Mass	Main body only : Approx. 3.3 kg Approx. 7 lb 4.4 oz
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### 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
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## 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)
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## Notes

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

