

## HXC-FB75KC

Affordable, three 2/3-inch Exmor CMOS sensor, full HD/SD Studio Camera - with viewfinder, monaural microphone and 20x zoom lens



### 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.

The HXC-FB75KC camera package is supplied with the HDVF-L10 3.5-inch QHD colour LCD monocular viewfinder, portable HD 20x

zoom lens and omni-directional monaural electret condenser microphone.

The HXC-FB75KC - enhance your live production work, cost effectively.

\*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).

### **Supplied with digital HD viewfinder HD lens and monaural microphone**

The HXC-FB75KC camera package is supplied with the HDVF-L10 3.5-inch QHD colour LCD monocular viewfinder that offers better and easier focusing. The camera is also supplied with a portable HD 20x zoom lens and monaural electret condenser microphone.

## Specifications

### General

Power requirements	CCU: DC48V, 2.8A (max.) Ext.DC In: DC12V, 5.4A (max.)
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Power Consumption	Approx.18W (Camera body only) Approx. 21W (Camera body with supplied viewfinder)
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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)
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)

Screen Size	8.8 cm diagonal (3.5 inch)
Aspect Ratio	16:9
Picture Elements	960(H) x3 x 540(V) RGB stripe array

## Lens

Focal Length	8.2mm (11/32 inches) to 164mm (6 1/2 inches)
Zoom	Servo/Manual selectable
Zoom Ratio	20 x
Maximum Relative Aperture	1: 1.9
Iris	Auto/Manual selectable F1.9 to F16 and C (Close)
	Full manual focus

Focus	900 mm to ∞ (MACRO OFF) 10 mm to ∞ (MACRO ON, Wide)
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Filter Thread	M82 mm, pitch 0.75 mm
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Macro	On/Off switchable
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## Supplied Accessories

Supplied Accessories	<p>Operation Guide (1)          Operation Manual (CD-ROM 1), JP,          GB, FR, DE, IT, ES, CS          Viewfinder (1)          Microphone (1)          Windscreen (1)          Lens Mount Cap (1)          Flange back adjustment chart (1)          Cable clamp belt (1)</p>
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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

