

## HXC-FB75KC

Affordable three 2/3-inch Exmor CMOS sensors SD / HD Studio Camera with viewfinder, monoral 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.

## Technical Specifications

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

● Screen Size	8.8 cm diagonal (3.5 inch)
● Aspect Ratio	16:9
● Picture Elements	960(H) x3x 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)
● Focus	Full manual focus 900 mm to ∞ (MACRO OFF) 10 mm to ∞ (MACRO ON, Wide)
● Filter Thread	M82 mm, pitch 0.75 mm
● Macro	On/Off switchable

#### Supplied Accessories

● Supplied Accessories	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)
------------------------	--

#### Notes

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

## Accessories

### Camera Control Unit



**CA-TX70**  
Digital triax adapter for HXC-D70 and PMW-320/350/400/500 camcorders



**HXCE-FB70**  
Power supply extension unit for HXC-D70 and PMW-320/350/400/500 camcorders



**HXCU-FB70**  
Fibre CCU for CA-FB70 adapter for HXC-P70, HXC-D70 and PMW-320/350/400/500 camcorders



**HXCU-TX70**  
Digital triax Camera Control Unit for HXC-D70 and PMW-320/350/400/500 camcorders

### Control Panels



**RCP-1500**  
Standard remote control panel with Joystick type control

### Option Boards and Modules



**HKCU-FP2**  
Front control panel for HSCU-300R/RF and HXCU-TX70



**VCT-U14**  
TRIPOD ATTACHMENT FOR VIDEO CAMERA

### Viewfinders



**HDVF-EL20**  
OLED 0.7-inch colour HD viewfinder



**HDVF-EL30**  
OLED 0.7-inch colour Full HD viewfinder with 3.5-inch sub-LCD



**HDVF-L10**  
3.5" Colour LCD HD Viewfinder



**HDVF-L750**  
Full HD 7-inch LCD viewfinder



**HDVF-L770**  
Full HD 7-inch LCD viewfinder, adjustable with large handle

## Tripods and Supports



### VCT-14

TRIPOD ADAPTOR FOR PORT.  
CAMERAS/CAMC.