

## HXC-FB75SC

Affordable, three 2/3-inch Exmor CMOS sensor, full HD/SD Studio Camera with large viewfinder 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, F13 at 1080i/50) with a low noise ratio for clear images. Those sensors are common to the HXC-P70, HXC-D70 and PXC-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-FB75SC camera package is supplied with the HDVF-L750

7-inch full HD colour LCD viewfinder and portable HD 20x zoom lens.

The HXC-FB75SC - enhance your studio production work, cost effectively.

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

\*HXC-FB75SC: [Camera head: large viewfinder and lens]

\*HXC-FB75H: [Camera head, only]

## Features

### **Full HD Exmor 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 large viewfinder and HD lens**

The HXC-FB75SC camera package is supplied with the HDVF-L750 7-inch full HD colour LCD viewfinder that offers better and easier operation in studio application. The camera is also supplied with a portable HD 20x zoom lens.

## Specifications

### General

Power requirements	CCU: DC48V, 2.8A (max.) Ext.DC In: DC12V, 5,4A (max.)
--------------------	--

Power Consumption	Approx.18W (Camera body only) Approx. 31W (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	160 x 266 x 314 mm (Camera body only) 295 x 455 x 529 mm (Camera body with lens and viewfinder)
Mass	Approx. 3.3 kg (Camera body only) Approx. 6.5 kg (Camera body with lens and viewfinder)

## 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
Spectrum system	F1.4 prism system
Lens Mount	Sony 2/3"- type bayonet mount
Built-in filters	CC: Electrical
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)
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 4-pin (1), DC 10.5 V to 17 V, 1.5 A

DC Output	(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.)
Distance of Single Mode Fiber Cable (with HXCU-FB70)	10km (max.)
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	155.5 x 87.5 mm (7 inch diagonal)
-------------	-----------------------------------

Aspect Ratio	16:9
--------------	------

Picture Elements	1920(H) x 1080(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
------	------------------------

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	<ul style="list-style-type: none"> <li>Camera Operation Guide (1)</li> <li>Camera Operation Manual (CD-ROM 1), JP, GB, FR, DE, IT, ES, CS</li> <li>Viewfinder Operation Guide (1)</li> <li>Viewfinder Operation Manual (CD-ROM 1), JP, GB, FR, DE, IT, ES, CS</li> <li>2/3-inch type HD Portable Lens</li> <li>7 inch Large Viewfinder (1)</li> <li>Lens Mount Cap (1)</li> <li>Flange back adjustment chart (1)</li> <li>Viewfinder Installation Bracket (1)</li> <li>V-Shoe Bracket (1)</li> <li>Viewfinder Hood (1)</li> <li>Viewfinder Cable 20pin (1)</li> <li>Tally Number Plate (0-9)</li> <li>Camp clamp belt (1)</li> </ul>
----------------------	--

## Notes

*1	The values for dimensions are approximate.
----	--

The value is in NS (Noise



\*2

Suppressor) : ON mode.

---

## Gallery

