

## 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.)<br>Ext.DC In: DC12V, 5,4A (max.) |
|--------------------|--|

|                   |   |
|-------------------|---|
| Power Consumption | Approx.18W (Camera body only)<br>Approx. 31W (Camera body with supplied viewfinder) |
|-------------------|---|

|                       |                                 |
|-----------------------|---------------------------------|
| 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 | 160 x 266 x 314 mm (Camera body only)<br>295 x 455 x 529 mm (Camera body with lens and viewfinder) |
| Mass                     | Approx. 3.3 kg (Camera body only)<br>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,<br>1080/29.97PsF, 1080/25PsF,<br>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)<br>MIC IN: -60dBu (Up to -20dBu can be set by using menu or HXCU-FB70), balanced<br>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<br>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)<br>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 |
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|      |             |
|------|-------------|
| 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) |
|--------------|--|

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|------|-------------------------|
| Zoom | Servo/Manual selectable |
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|            |      |
|------------|------|
| Zoom Ratio | 20 x |
|------------|------|

|                           |        |
|---------------------------|--------|
| Maximum Relative Aperture | 1: 1.9 |
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|      |                        |
|------|------------------------|
| Iris | Auto/Manual selectable |
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|-------|---|
| Focus | Full manual focus<br>900 mm to ∞ (MACRO OFF)<br>10 mm to ∞ (MACRO ON, Wide) |
|-------|---|

|               |                       |
|---------------|-----------------------|
| Filter Thread | M82 mm, pitch 0.75 mm |
|---------------|-----------------------|

|       |                   |
|-------|-------------------|
| Macro | On/Off switchable |
|-------|-------------------|

## Supplied Accessories

|                      |   |
|----------------------|---|
| Supplied Accessories | <p>Camera Operation Guide (1)<br/>         Camera Operation Manual (CD-ROM 1), JP, GB, FR, DE, IT, ES, CS<br/>         Viewfinder Operation Guide (1)<br/>         Viewfinder Operation Manual (CD-ROM 1), JP, GB, FR, DE, IT, ES, CS<br/>         2/3-inch type HD Portable Lens<br/>         7 inch Large Viewfinder (1)<br/>         Lens Mount Cap (1)<br/>         Flange back adjustment chart (1)<br/>         Viewfinder Installation Bracket (1)<br/>         V-Shoe Bracket (1)<br/>         Viewfinder Hood (1)<br/>         Viewfinder Cable 20pin (1)<br/>         Tally Number Plate (0-9)<br/>         Camp clamp belt (1)</p> |
|----------------------|---|

## Notes

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|----|--|
| *1 | The values for dimensions are approximate. |
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The value is in NS (Noise



\*2

Suppressor) : ON mode.

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## Gallery

