

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

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| 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

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| 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) |

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| 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

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| 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 |

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| 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) |

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| 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)

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| 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

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| 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 |

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| 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

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| 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

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| *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

