

## HXC-FZ90

HXC-FZ90 portable studio camera system for 4K/HD production



### Overview

HXC-FZ90 is designed for HD and 4K productions by utilising a 2/3-inch 4K CMOS image sensor to deliver high image quality. It offers the flexibility to start with HD shooting and later upgrade to 4K with a software license on a permanent/monthly/weekly basis. The camera is adaptable to different setups and supports 4K HDR productions with wide color BT.2020 and SR Live support for HDR. It also includes functions for easier live productions, such as focus assists, automatic control of various settings, and high-speed data transmission for remote operation. In addition, HXC-FZ90 camera is suitable for capturing reliable images in various scenarios, including events, sports, and corporate/education settings, with features like high sensitivity, dynamic contrast, and digital extender for magnification without image degradation.

### Specifications

#### General

Power Consumption	Approx.56W (Camera body only)
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Operating Temperature	-10°C to +45°C 14°F to +113°F
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	-20°C to +60°C
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Storage Temperature -4°F to +140°F"

Dimensions (W x H x D)<sup>1</sup> (Body) 160 x 266 x 326 mm  
(Body) 6 3/8 x 10 1/2 x 12 53/64 inches

Mass (Body) Approx. 3.8 kg  
(Body) Approx. 8 lb 6 oz

## Camera Section

Pickup Device 2/3-inch type 4K CMOS

Effective Picture Elements 3840 x 2160 (H x V)

Signal Format 4K 2160: 59.94p, 50p, 60p, 30p, 29.97p, 25p, 24p, 23.98p  
HD 1080: 59.94p, 59.94i, 50p, 50i, 60p, 29.97PsF, 25PsF, 24PsF, 23.98PsF,  
HD 720: 59.94p, 50p SD 59.94i, 50i

Lens Mount B4 Mount Lens

Built-in Filters CC: Electrical  
ND: 1; CLEAR, 2; 1/4ND, 3; 1/16ND, 4; 1/64ND

Sensitivity (at 2000 lx, 3200K, 89.9% F10 (59.94 Hz), F11 (50 Hz)

reflectance)

Signal-to-noise Ratio	-62dB
Horizontal Resolution	2,000 TV lines
Gain	-6, -3, 0, 3, 6, 9, 12
Shutter Speed	1/100, 1/150, 1/200, 1/250, 1/500, 1/1000, 1/2000
Shutter Speed (Slow Shutter (SLS))	Support

## Input/Output

Audio Input (CH1)

XLR type: 3-pin, female (x1)  
 MIC IN: -60dBu (Up to -20dBu can be set by using menu or HXCU-FZ90), balanced  
 MIC +48V: When supplying +48 V phantom power to microphones  
 LINE IN: 0dBu, balanced

Audio Input (CH2)

XLR type: 3-pin, female (x1)  
 MIC IN: -60dBu (Up to -20dBu can be set by using menu or HXCU-FZ90), balanced  
 MIC +48V: When supplying +48 V phantom power to microphones  
 LINE IN: 0dBu, balanced

Prompter/Genlock	BNC (x1); 1Vp-p, 75Ω
SDI Input/Output	BNC (x1)
SDI Output	BNC (x1)
CCU	Optical Fiber (x1), CCFN Cable or Single Mode Fiber Cable (LC type)
Distance of Power Supply	300 m with optical fiber composite cable
Distance of Fiber Cable	300 m (optical fiber composite cable), 10 km (single mode fiber with HXCE)
Intercom	XLR type: 5-pin, female (x1)
Earphone Output	4pole stereo mini jack (x1)
Lens	12-pin (x1)
Viewfinder	20-pin (1)
Remote	8-pin (x1)
TRUNK Input/Output	TRUNK LINE Remote 8pin : RS-422A
EXT Input/Output	DC-OUT 2pin
USB	USB 2.0 (x1)

DC Input	XLR-type 4-pin (x1), DC 10.5 V to 17 V
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DC Output	4-pin (x1), DC 10.5 V to 17 V
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## Lens (Spackage)

Lens Mount	2/3-inch type Sony Bayonet
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Focal Length	8.2 mm (11/32 inches) to 164 mm (6 1/2 inches)
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Zoom	Servo/Manual selectable
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Zoom Ratio	20 x
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Maximum Relative Aperture	01:01.9
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Iris	Auto/Manual selectable F1.9 to F16 and C (Close)
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Focus	Full manual focus 900 mm to $\infty$ (MACRO OFF) 10 mm to $\infty$ (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

	Camera Operation Guide (1)
	Operating Instructions (CD-ROM 1), JP, GB, FR, DE, IT, ES, CS
	7 inch Large Viewfinder (1)
	Viewfinder Operation Guide (1)
	Viewfinder Operation Manual (CD- ROM 1), GB, CS
Supplied Accessories	2/3-inch type HD Portable Lens (1)
	Lens Mount Cap (1)
	Flange back adjustment chart (1)
	Cable clamp belt (1)
	V-shoe (1)
	Viewfinder Hood (1)
	Viewfinder Cable 20pin (1)
	Tally Number Plate (0~9)
	Warranty booklet (1)

## Note

\*1 The values for dimensions are approximate.

\*2 The values for dimensions are in the maximum height position of viewfinder's slide mechanism without hood.

\*3 The value is in NS (Noise Suppressor) : ON mode.

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This specification data is for the HXC-FB80SN

Optical low pass filter for HXC series cameras

In cases where a HXC Series camera's built-in filter does not fully reduce the moiré caused by some LED walls, the optional optical low pass filter (OLP) will help further reduce the moiré effect (part number: 1-856-731-31)

## Related products



### HXCU-FZ90

4K / HD Camera Control Unit for HXC-FZ90 cameras



### HXCE-FZ90

Camera extension unit for HXCE-FZ90



### 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-EL75

7.4-inch OLED Viewfinder for portable cameras



### RCP-3500

Remote-control panel for HDC/HSC/HXC series cameras



### BRC-AM7

Premium PTZ Auto Framing Camera with AI Analytics, 4K 60p, 20x optical zoom. High interoperability with other production systems

## Gallery

