SONY

HXC-FZ90

HXC-FZ90 portable studio
camera system for HD
production

Overview

HXC-FZ90 is designed for HD and 4K productions by utilizing 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, the HXC-FZ90 camera is suitable for capturing reliable images in various scenarios, including events, sports, and corporate/educational settings, with features like high sensitivity, dynamic contrast, and digital extender for magnification without image degradation.

Specifications

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

Storage Temperature	-4°F to +140°F"
Dimensions (W x H x D)[1]	(Body) 160 x 266 x 326 mm (Body) 6 3/8 x 10 1/2 x 12 53/64 in
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% reflectance)	F10 (59.94 Hz), F11 (50 Hz)

Signal-to-noise Ratio	-62 dB
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: -60 dBu (Up to -20 dBu can be set by using menu or HXCU-FZ90), balanced MIC +48V: When supplying +48 V phantom power to microphones LINE IN: 0 dBu, balanced
Audio Input (CH2)	XLR type: 3-pin, female (x1) MIC IN: -60 dBu (Up to -20 dBu can be set by using menu or HXCU-FZ90), balanced MIC +48V: When supplying +48 V phantom power to microphones LINE IN: 0 dBu, 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	984.25 ft with optical fiber composite cable
Distance of Fiber Cable	984.25 ft (optical fiber composite cable), 6.21 mi (single mode fiber with HXCE)
Intercom	XLR type: 5-pin, female (x1)
Earphone Output	4-pole stereo mini jack (x1)
Lens	12-pin (x1)
Viewfinder	20-pin (1)
Remote	8-pin (x1)
TRUNK Input/Output	TRUNK LINE Remote 8-pin: RS-422A
EXT Input/Output	DC-OUT 2-pin
USB	USB 2.0 (x1)
DC Input	XLR-type 4-pin (x1), DC 10.5 V to 17 V

DC Output	4-pin (x1), DC 10.5 V to 17 V

Lens (S package)

Lens Mount	2/3-inch type Sony Bayonet
Focal Length	8.2 mm (11/32 in) to 164 mm (6 1/2 in)
Zoom	Servo/Manual selectable
Zoom Ratio	20 x
Maximum Relative Aperture	01:01.9
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

	Camera Operation Guide (1) Operating Instructions (CD-ROM 1),

Supplied Accessories	JP, GB, FR, DE, IT, ES, CS 7-inch Large Viewfinder (1) Viewfinder Operation Guide (1) Viewfinder Operation Manual (CD-ROM 1), GB, CS 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 20-pin (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.
	This specification data is for the

*4	HXC-FB80SN
Optical low pass filter for HXC series cameras	In cases where an 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 color HD viewfinder

HDVF-EL30
OLED 0.7-inch color 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