

## HXC-P70

Affordable, three 2/3-inch Exmor CMOS sensor, full HD/SD compact system camera with direct optical fiber cable connection



### Overview

#### **Compact, lightweight “POV” camera with lower power consumption, plus optical fiber connections**

The HXC-P70 is a point-of-view “POV” camera developed for a wide range of more affordable applications than the HDC-P1, thanks to a longer cable distance extension and a higher sensitivity, in addition to its compact size, light weight and lower power consumption.

The HXC-P70 allows direct connection to the HXCU-FB70 camera control unit by optical fiber cable, in addition to two HD/SD-SDI outputs. The hybrid type fiber cable can extend the distance from the CCU up to 500 m, while supplying the required power. If a single-mode fiber cable is connected, the distance can extend up to 10 km with a local power supply.

The HXC-P70 adopts the same three 2.2-million pixels 2/3-inch type CMOS sensors as used on Sony high end camera such as the HXC-D70 and delivers high sensitivity of F12 at 59.94Hz or F13 at 50Hz. In addition, the camera uses an electrical CC filter alongside a servo motorized optical ND filter. These help to reduce the power consumption and make for an affordable total system with the CCU, cables, and remote controller. The camera is ideal for a wide variety of applications, from production studio and event hall/stadium work, to wider applications such as surveillance, conference and house of worship installations.

#### **High sensitivity and low noise**

Incorporates high quality three 2/3-inch Exmor CMOS sensors, plus integrated motorized ND Filter and electrical CC filter.

#### **Optical fiber transmission with direct cable connection**

Up to 500m by the hybrid type optical fiber cable with power supply and up to 10km by the single-mode fiber cable with local power supply.

#### **HXCU-FB70 Camera Control Unit**

Connects to the HXCU-FB70 for precise remote control.

#### **Low power consumption**

Power saving design provides low power consumption of 17W.

**This product contains pre-installed software and requires the purchase of license keys to activate some functions.**

### Features

#### **Superb three 2/3-inch-type CMOS sensors**

Keeping the same compact and lightweight body as the HDC-P1, the HXC-P70 achieves a cost reduction while providing the high picture quality equivalent to the reputable HXC-D70 HD/SD system camera by using the same image sensor. It achieves high sensitivity of F12 (at 1080/59.94i) or F13 (at 1080/50i) while keeping low noise ratio.

**Integrated ND filter / Electrical CC filter, and TLCS**

The HXC-P70 is equipped with a Neutral Density (ND) optical servo filter unit and electrical Color Correction (CC) filter. The electrical CC filter can be controlled from the remote control panel, which allows you to assign with four different color temperatures. In addition to the filter functions, thanks to the TLCS (Total Level Control System) function, gain/iris/shutter is automatically controlled by the ambient brightness, making it very efficient for nature shooting or surveillance use from morning to night.

**Expandable operability with HXCU-FB70**

Connecting the HXC-P70 with the HXCU-FB70 optical fiber camera control unit (CCU) enables precise remote control in picture adjustment and color matching of cameras, while also monitoring the SDI output signal.

**Long-distance transmission up to 10 km**

The hybrid type optical fiber cable can extend the distance from the HXCU-FB70 camera control unit up to 500 m while supplying the required power. In the case of connection with a single-mode fiber cable (SMF), it can extend up to 10 km, if you are using a local power supply. Using the SMF already laid as infrastructure in many facilities enables you to install the camera system quickly and easily.

**Beneficial digital extender by 2x or 4x**

The digital extender function expands the size of the image by a factor of two or four times in the center of the image sensor’s captured image. This function works without a decrease in sensitivity, such as an F-number drop, which typically occurs when using conventional optical extender functions.

Specifications

General	
Power Requirements	CCU: DC48V, 1.7A (max.) Ext.DC In: DC12V, 3.6A (max.)
Power Consumption	17W
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]	86 x 130 x 210 mm 3 1/2 x 5 1/8 x 8 3/8 inches
Mass	Approx. 1.5 kg Approx. 3 lb 4 oz
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 SD: 480/59.94i, 576/50i
Spectrum System	F1.4 prism system
Lens Mount	Sony 2/3-inch 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)
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
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, 16, 32, 64-frame accumulation (Only for HD1080 mode)

### Input/Output

Mic Input	-60dBu to -20dBu, Balance, via D-Sub 9pin, female (x1)
DC Input	XLR-type 4-pin (x1), DC 10.5 V to 17 V
DC Output	DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 9pin
SDI Output	BNC (x2) HD-SDI or SD-SDI selectable
CCU	Optical Fiber (x1), for Single Mode Fiber Cable
Distance of Power Supply (with HXCU-FB70)	500m (max.) by CCFN Sony Hybrid Type Fiber Cable with Portable Lens Installed
Distance of Fiber Cable (with HXCU-FB70)	10km (max.) by Single Mode Fiber Cable with Local Power Supply
Remote	8pin (x1) RJ-45 (x1), Ether 10BASE-T, 100BASE-TX
Lens	12-pin (x1)
USB	USB 2.0 (x1)
EXT Input/Output	D-Sub 9pin, female (x1)

Supplied Accessories

Supplied Accessories  
 Tally Number Plate (1 set)  
 Operation Guide (1)  
 Operation Manual (CD-ROM 1)

Notes

Note  
 \*[1] The values for dimensions are approximate.  
 \*[2] The value is in NS (Noise Suppressor) : ON mode.

Related products



**BRC-X1000**  
 4K Pan Tilt Zoom camera with 1.0-type Exmor R CMOS sensor (color availability may vary by country)



**CCFN-150**  
 150m Optical Fiber Hybrid Cable with opticalCON connector



**CCFN-250**  
 250m Optical Fiber Hybrid Cable with opticalCON connector



**CCFN-200**  
 200m Optical Fiber Hybrid Cable with opticalCON connector



**HXCU-FB70**  
 Fiber CCU for CA-FB70 adapter for HXC-P70, HXC-D70 and PMW-320/350/400/500 cam corders



**CCFN-100**  
 100 meter optical fiber hybrid cable with opticalCON connector



**HXCE-FB70**  
 Power supply extension unit for HXC-D70 and PMW-320/350/400/500 cam corders



**BRC-X400**  
 IP 4K Pan-Tilt-Zoom Camera with NDI®\*|HX capability



**CCFN-50**  
 50 meter optical fiber hybrid cable with opticalCON connector



**BRC-H800**  
 Full HD Pan Tilt Zoom camera with 1.0-type Exmor R CMOS sensor (color availability may vary by country)



**CCFN-JC1**  
 Coupler for cascade connection



**BRC-H900**  
 Full HD robotic studio camera with 1/2-type Exmor 3CMOS sensor and 14x optical zoom



**CCFN-25**  
 25 meter optical fiber hybrid cable with opticalCON connector



## Gallery

