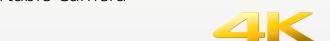
SONY



HXC-FB80 **HD** Portable Camera



HXCU-FB80

4K/HD Camera Control Unit



Three 2/3-inch Exmor® CMOS sensor HD color studio camera

The HXC-FB80 is a cost-effective high-performance HD portable camera with three Sony 2/3-inch Exmor CMOS sensors offering excellent sensitivity and full-HD picture quality. Built on a 3G-SDI platform, the HXC-FB80 is capable of 1080/50p, 59.94p signal processing while maintaining low power consumption.

In combination with the HXCU-FB80N* 4K/HD Camera Control Unit, the HXC-FB80 offers future-proof expandability including 4K upscale and HD HDR support (HLG, Hybrid Log-Gamma)**. The HXC-FB80 is compatible with the optional HZC-RCP5 PC-based Remote Control Panel which allows for flexibility in system operation.

- * HXC-FB80 camera comes standard with a Neutrik connector interface. An optional Lemo conversion kit is available.
- ** Requires firmware upgrade planned to be available June 2018.

Full HD Exmor CMOS sensors

Incorporating three 2/3-inch Exmor CMOS sensors, the HXC-FB80 offers stunning full-HD picture quality and sensitivity of F13 in 50 Hz and F12 in 59.94 Hz at 1080 mode with a signal-to-noise ratio of -60 dB, enhancing shooting in low light settings.

The HXC-FB80 can comfortably output 3G-SDI signals including 1080/50p and 59.94p. The new processor can also support 1080/23.98 PsF in addition to 25 PsF and 29.97 PsF.



Future-Proof up-scalable 4K and HD HDR Support

Combined with the HXCU-FB80 CCU, the camera's output is 4K up-scalable and capable of HD HDR (HLG, Hybrid Log-Gamma). HD-HDR support requires firmware upgrade planned to be available June 2018. 4K up-scale in the CCU will be available at launch.

MCS (Multi Camera System) capabilities

The HXCU-FB80 CCU provides support for up to 24 units, forming a complete Multi Camera System.

Long Cable Extension and Choice of Fiber Interface

Using a hybrid Fiber camera cable and improved power supply unit, the distance between the camera head and CCU can be extended up to 600m. If combined with the HXC-P70H, it can extend up to 1,000m. In addition to the Neutrik connector interface, a LEMO connector interface is available for the camera head and CCU.

Long-distance transmission up to 10km with single-mode fiber cable

Transmission can be extended up to 10km using a local power supply with single-mode fiber cable (SMF).

Wide range of image control functionality

The HXC-FB80 comes equipped with a number of creative image control features such as MultiMatrix, Skin Tone Detail, Low Key Saturation, Knee Saturation, and Auto Lens Aberration Compensation (ALAC).

ND Filter by Servo Motor

Along with an electrical CC filter, the ND filter can be remotely controlled either by external RCP/RM or via the CCU because of the newly adopted filter servo motor in the camera head.

HD Video Trunk and HD Prompter

HXC-FB80 and HXCU-FB80 system design is based on a 3G-HD platform. The camera head can pass an additional 1080/50i, 59.94i signal to the HXCU-FB80 while operating at 1.5G (1080/50i,59.94i). The HXCU-FB80 can send an additional HD-Prompter Video signal to the HXC-FB80 even while the camera is operating in 1080/50p, 59.94p, or 4K mode.

Specifications

				R.L.
	Model Code	HXC-FB80HN	HXC-FB80KN	HXC-FB80SN
General	Power Consumption	Approx.19W (Camera body only)	Approx. 22W (with viewfinder)	Approx. 32W (with viewfinder)
	Dimensions (W x H x D) ^{r1}	6 3/8 x 10 1/2 x 12 3/8 inches	(with Lens & VF)'4 10 x 10 1/2 x 20 7/8 inches	
	Weight	(Body) Approx. 7 lb 8 oz	(with Lens & VF) Approx. 12 lb 9 oz	(with Lens & VF) Approx. 14 lb 16 oz
Camera Section	Pickup Device	3-chip 2/3-inch type CMOS		
	Effective Picture Elements	1920 x 1080 (H x V)		
	Signal Format	HD: 1080/59.94p, 59.94i, 50p, 50i, 29.97PsF, 25PsF, 23.98PsF, 720/59.94p, 720/50p		
		SD: 480/59.94i, 576/50i		
	Lens Mount	Sony 2/3-inch type bayonet mount		
	Sensitivity	F12 (59.94 Hz), F13 (50 Hz) (at 2000 lx, 3200 K, 89.9% reflectance)		
	Signal-to-noise Ratio	Typical 60dB ² (1080/59.94i)		
Input/Output	Audio Input	XLR type: 3-pin, female (x2)		
	Prompter/Genlock	BNC (x1)		
	SDI Input/Output	BNC (x1) SMPTE ST292-1, for HD Prompter Out or HD Video Trunk In		
	Test Output	TEST Out (Analog output with/without characters), or HD/SD Sync Out		
	SDI Output	BNC (x1) SMPTE ST425-1/ST292-1/259M; 3G/HD-SDI or SD-SDI selectable		
	CCU	(N): Optical Fiber (x1), CCFN Cable or Single Mode Fiber Cable (LC type)		
		(L): Optical Fiber (x1), Lemo cable		
	Distance of Power Supply	(N): 600m (max.) by CCFN Sony Hybrid Type Fiber Cable		
	(with Portable Lens and HXCU-FB80)	(L): 600m (max.) by Lemo cable		
	Distance of Fiber Cable by Local	(N): 10km (max.) by Single Mode Fiber Cable (LC type)		
	Power Supply (with HXCU-FB80)	, , , , , , , , , , , , , , , , , , , ,		
	Intercom	XLR type: 5-pin, female (x1)		
	TRUNK Input/Output	TRUNK LINE D-sub 9-pin, female (x1): RS-232C, or Remote 8pin : RS-422A		
	EXT Input/Output	(in TRUNK I/O) D-sub 9-pin, female (x1)		
Viewfinder Display	Screen Size	÷	8.8 cm diagonal (3.5 inch)	155.5 x 87.5mm (7 inch diagonal)
	Aspect Ratio	=	16:9	16:9
	Picture Elements	=	960 (H) x 3 x 540 (V) RGB stripe array	1920 (H) x 1080 (V) RGB stripe array
Lens	Lens Mount	<u> </u>	2/3-inch type 30hy Bayonet	
	Focal Length	- 11/32 inches (8.2 mm) to 6 1/2 inches (164 mm)		
	Zoom	<u> </u>	- 20x, Servo/Manual selectable	

¹ The values for dimensions are approximate and excluding the protrusions.

	Model Code	HXCU-FB80N	
General	Dimensions (W x H x D) ⁻¹ (without handles)	19 (16 3/4) x 2 5/8 x 14 1/2 inches	
	Weight	Approx. 13 lb 11 oz	
	Signal Format	4K 2160 : 59.94p, 50p (2SI, SQD, Level-A/B) HD 1080 : 59.94p, 59.94i, 50p, 50i, 29.9795f, 25Psf, 23.98Psf, HD 720 : 59.94p, 50p SD 480 : 59.94i, 576 : 50i	
Input/Output	Camera	(N): Optical Fiber (x1), CCFN Sony Hybrid Cable or Single Mode Fiber Cable (LC type) (L): Optical Fiber (x1), Lemo Cable	
	Distance of Power Supply	(N): 600m (max.) by CCFN Sony Hybrid Type Fiber Cable (L): 600m (max.) by Lemo Cable	
	Distance of Fiber Cable by Local Power Supply	(N): 10km (max.) by Single Mode Fiber Cable (LC type)	
Output	SDI Out (SLOT-1) HD/SD	BNC (x4) HD-SDI/SD-SDI selectable	
	SDI Out (SLOT-2) 3G/4K/HD Trunk	BNC (x4): 4K/3G-SDI 1 to 4: 2160/5934p, 50p, 1080/59.94p, 50p, 4K/12G-SDI 1, 2: 2160/59.94p, 50p, HD 3G-SDI 1080/59.94p, 50p, HD-SDI 3, 4: HD Trunk 1080/59.94i, 50i, 4K/3G/HD Trunk: Selectable	

[&]quot; The values for dimensions are approximate and excluding the protrusions

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^{*2} The value is in NS (Noise Suppressor) : ON mode.

^{*3} The values for dimensions are in the maximum height position of viewfinder's slide mechanism without hood.

[&]quot;4 The value for width is in the minimum position of viewfinder's slide mechanism