

SONY



HXC-FB80

HD Portable Camera

4K

HXCU-FB80

4K/HD Camera Control Unit



Preliminary

HD Studio Camera System with 4K Upscale and HD HDR Capability

The HXC-FB80 is a cost-effective high-performance HD portable camera with three Sony 2/3-inch Exmor™ CMOS sensors and a 3G-SDI platform capable of 1080/50p and 59.94p signal processing while achieving low power consumption.

In combination with the HXCU-FB80 4K/HD Camera Control Unit, it offers user-beneficial expandability including 4K upscale and HD HDR support (HLG, Hybrid Log-Gamma) for a future-proof solution.* The optional PC-based HZC-RCP5 Remote Control Panel is available for a simpler application system.

* Requires firmware upgrade available in 2018.

Three Sony 2/3-Inch 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. These features enhance shooting in a low light environment.



3G-SDI Platform Capable of 1080/50p and 59.94p

The camera head can comfortably output 3G-SDI signals including 1080/50p and 59.94p. The new processor can also support 1080/23.98 PsF on top of 25 PsF and 29.97 PsF.

Future-Proof 4K Upscalable and HD HDR Support with CCU

Combined with the HXCU-FB80 CCU, this camera's output is 4K upscalable and yet HD HDR-capable supporting HLG (Hybrid Log-Gamma).* For 4K signal output, the HXCU-FB80 is equipped with a 12G-SDI interface with quad 3G-SDI.

* Requires firmware upgrade available in 2018.

Long Cable Extension and Choice of Fiber Interface

Using a hybrid cable with a power supply, the distance between the camera head and CCU can be extended up to 600 m. In case of the combination with HXC-P70, it can extend up to 1,000 m. In addition to the Neutrik connector interface, a LEMO connector interface is also available for the camera head and CCU.




HD Video Trunk and HD Prompter

In addition to the camera captured 1080 50i/59.94i video signal, another video signal can be passed through the same fiber connection line to the CCU side because of the 3G-SDI platform. Further to the traditional analog composite prompter support, the HD-SDI signal can be supplied from the CCU side.


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.

Specifications

	Model Code			
General	Power Consumption	Approx.19W (Camera body only)	Approx. 22W (with viewfinder)	Approx. 32W (with viewfinder)
	Dimensions (W x H x D)*1	160 x 266 x 314 mm (Body) 6 3/8 x 10 1/2 x 12 3/8 inches	(with Lens&VF)*4 254 x 266 x 529 mm (with Lens&VF)*4 10 x 10 1/2 x 20 7/8 inches	(with Lens&VF)*3 295 x 433 x 571 mm (with Lens&VF)*3 11 5/8 x 17 1/8 x 22 1/2 inches
	Mass	(Body) Approx. 3.4 kg (Body) Approx. 7 lb 8 oz	(with Lens&VF) Approx. 5.7 kg (with Lens&VF) Approx. 12 lb 9 oz	(with Lens&VF) Approx. 6.8 kg (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)		
Input/Output	Signal-to-noise Ratio	Typical 60dB*2 (1080/59.94i)		
	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 (with Portable Lens and HXCU-FB80)	(N): 600m (max.) by CCFN Sony Hybrid Type Fiber Cable (L): 600m (max.) by Lemo cable		
	Distance of Fiber Cable by Local Power Supply (with HXCU-FB80)	(N): 10km (max.) by Single Mode Fiber Cable (LC type)		
	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)		
	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	-	2/3-inch type Sony Bayonet	
	Focal Length	-	8.2mm (11/32 inches) to 164mm (6 1/2 inches)	
	Zoom	-	20x, Servo/Manual selectable	

*1 The values for dimensions are approximate and excluding the protrusions.
*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.
*4 The value for width is in the minimum position of viewfinder's slide mechanism.

	Model Code	
General	Dimensions (W x H x D)*1 (without handles)	482 (424) x 66 x 366 mm 19 (16 3/4) x 2 5/8 x 14 1/2 inches
	Mass	Approx. 6.2 kg 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, 29.97PsF, 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: 2160/59.94p, 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

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

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