

HXCU-FB80

4K / HD Camera Control Unit for
HXC-FB80 cameras



Overview

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 HXC-FB80 HD Camera, HXCU-FB80* CCU 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.

*HXCU-FB80N CCU model and HXC-FB80N camera model both equipped with Neutrik connector interface.

*HXCU-FB80L CCU model and HXC-FB80L camera model both equipped with Lemo connector interface.

** Requires firmware upgrade available in 2018.

Model Variations

HXCU-FB80N

HXCU-FB80L*

The N suffix indicates a Neutrik connector; the L suffix indicates a

LEMO connector.

*Not available in the USA or Canada

Features

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

The camera head and CCU 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, the HXC-FB80 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..

PC-RCP (HZC-RCP5)

In addition to hardware-based remote control units, PC software-based HZC-RCP5 Remote Control is also available.

MCS (Multi Camera System) capabilities

The HXCU-FB80 CCU provides support for up to 24 units, forming a complete MCS system.

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.

Long-distance transmission up to 10km with single-mode fibre

cable In the case of connection with a single-mode fibre cable (SMF), transmission can extend up to 10km using a local power supply.

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.

Specifications

General	
Power Requirements	AC 100 V to 240 V, 2.2A (max), 50/60 Hz
Operating Temperature	5°C to +40°C 41°F to +104°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Dimensions (W x H x D)*1 (W: without Rack Mounting Bracket)	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
	4K 2160 : 59.94p, 50p (2SI, SQD, Level-A/B) HD 1080: 59.94p, 59.94i,

Signal Format	50p, 50i, 29.97PsF, 25PsF, 23.98PsF, HD 720 : 59.94p, 50p SD 480 : 59.94i, 576: 50i
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Input/Output

Camera	Optical Fiber (x1), CCFN Cable or Single Mode Fiber Cable (LC type)
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Distance of Power Supply	600m (max.) by CCFN Sony Hybrid Type Fiber Cable (with Portable Lens and HXC-FB80), 1,000m (max.) by CCFN Sony Hybrid Type Fiber Cable (with Portable Lens and HXC-P70)
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Distance of Fiber Cable by Local Power Supply	10km (max.) by Single Mode Fiber Cable (LC type) (with HXC- FB80)
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Intercom (on the front panel)	XLR type: 5-pin, female (x1)
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Intercom/Tally/Program	D-sub 25-pin, female (x1) • INTERCOM (PROD, ENG), 4Wire/RTS/Clear-Com, 0 dBu • PGM 1 system, -20/0/+4 dBu • TALLY (R, G) • PREVIEW
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Remote	8-pin (x1)
Trunk	D-sub 9-pin, female (x1) RS-232C/RS-422A, 1 system
LAN	8-pin (x1)
Reference	BNC (x2), In: HD: SMPTE 274M, Tri-Level Sync, 0.6 Vp-p, 75 Ω SD: Black Burst (NTSC: 0.286 Vp-p, 75 Ω / PAL: 0.3 Vp-p, 75 Ω), Out: Loop-Through
Prompter	BNC (x2), In: VBS, 1.0 Vp-p, 75 Ω, 1 system, Out: Loop-Through

Input

AC In	(x1), AC 100 V to 240 V
Return In VBS1, VBS2	BNC (x2), 1.0 Vp-p, 75 Ω, 2 systems
Return In SDI1, SDI2	BNC (x2) HD SDI, SMPTE ST292-1, 1080: 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF 720: 59.94p, 50p SD SDI, 480 : 59.94i, 576: 50i
HD Prompter In	BNC (x1) HD SDI: SMTPE ST292-1, 0.8 Vp-p, 75 Ω

Output

SDI Out (SLOT-1) HD/SD	BNC (x4) HD SDI: SMPTE ST292-1, 0.8 Vp-p, 75 Ω, SD SDI: SMPTE 259M, 0.8 Vp-p, 75 Ω, HD SDI/SD SDI selectable
SDI Out (SLOT-2) 3G/4K/HD Trunk	BNC (x4) : 4K/3G SDI 1~4: SMPTE ST425-5, Level-A/B, 0.8 Vp-p, 75 Ω: 2160/59.94p, 2160/50p, 1080/59.94p, 1080/50p, 4K/12G SDI 1, 2: SMPTE ST2082-1, 0.8 Vp-p, 75 Ω: 2160/59.94p, 2160/50p, HD 3G SDI: SMPTE ST425-1, 0.8 Vp-p, 75 Ω: 1080/59.94p, 1080/50p, HD SDI 3, 4: SMPTE ST292-1, HD Trunk 1080/59.94i, 1080/50i, 0.8 Vp-p, 75 Ω, 4K/3G/HD Trunk: Selectable
VBS1, 2	BNC (x2), VBS 1.0 Vp-p, 75 Ω
Pix	BNC (x1), VBS/R/G/B (VBS 1.0 Vp-p, 75 Ω)
Sync	BNC (x1), SMPTE 274-1, HD: tri-level sync, 0.6 Vp-p, 75 Ω SD: composite sync, 0.3 Vp-p, 75 Ω HD SYNC/SD SYNC selectable
Audio Out CH-1, CH-2	XLR 3-pin, male (x2), 0/-20 dBu

Supplied Accessories

Supplied Accessories	<p>Tally Number Plate 1 Set (0~9)</p> <p>Operating Instructions Camera</p> <p>Operation Manual CD-ROM (1), JP, GB, FR, DE, IT, ES, CS</p> <p>Operation Guide (1)</p> <p>Warranty booklet (1)</p>
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Notes

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

*2 This specification data is for the HXCU-FB80N

Related products



HXC-FB80

Three 2/3-inch Exmor™ CMOS sensor HD colour studio camera



RCP-3500

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



RCP-3501

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



MSU-3000

Master setup unit, multi camera remote control panel for system cameras (horizontal type)



MSU-3500

Master setup unit,
multi camera remote
control panel for
system cameras
(vertical type)

Gallery

