

## 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-FB80N 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 (HXC-RCP5)**

In addition to hardware-based remote control units, PC software-based HXC-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:

Signal Format	59.94p, 59.94i, 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)
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)
Distance of Fiber Cable by Local Power Supply	10km (max.) by Single Mode Fiber Cable (LC type) (with HXC-FB80)
Intercom (on the front panel)	XLR type: 5-pin, female (x1)
Intercom/Tally/Program	D-sub 25-pin, female (x1) <ul style="list-style-type: none"> <li>• INTERCOM (PROD, ENG), 4Wire/RTS/Clear-Com, 0 dBu</li> <li>• PGM 1 system, -20/0/+4 dBu</li> <li>• TALLY (R, G)</li> <li>• PREVIEW</li> </ul>
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

BNC (x4) HD SDI: SMTPE ST292-1, 0.8 Vp-p, 75 Ω, SD

SDI Out (SLOT-1) HD/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

Tally Number Plate 1 Set  
(0~9)

## Supplied Accessories

Operating Instructions  
Camera Operation Manual  
CD-ROM (1), JP, GB, FR, DE,  
IT, ES, CS  
Operation Guide (1)  
Warranty booklet (1)

## Notes

\*1

The values for dimensions are approximate and excluding the protrusions.

\*2

This specification data is for the HXCU-FB80N

## Related products



### MSU-3000

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



### RCP-3501

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



### HXC-FB80

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



### RCP-3500

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



### MSU-3500

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



## Gallery

