# SONY

# 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 (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 fiber

cable In the case of connection with a single-mode fiber 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<br>41°F to +104°F |
| Storage Temperature | -20°C to +60°C<br>-4°F to +140°F |
| Dimensions (W x H x D)*1 (W: without Rack Mounting Bracket) | 482 (424) x 66 x 366 mm<br>19 (16 3/4) x 2 5/8 x 14 1/2 inches |
| Mass | Approx. 6.2 kg<br>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 |
|---|---|

| 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)<br>• INTERCOM (PROD, ENG), 4Wire/RTS/Clear-Com, 0 dBu<br>• PGM 1 system, -20/0/+4 dBu<br>• TALLY (R, G)<br>• PREVIEW |

| | |
|---|---|
| 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<br>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: SMTPE 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 | Tally Number Plate 1 Set (0~9) Operating Instructions Camera Operation Manual CD-ROM (1), JP, GB, FR, DE, IT, ES, CS Operation Guide (1) Warranty booklet (1) |

## Notes

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|---|---|
| *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 color studio camera

**RCP-3500**

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

**RCP-3501**

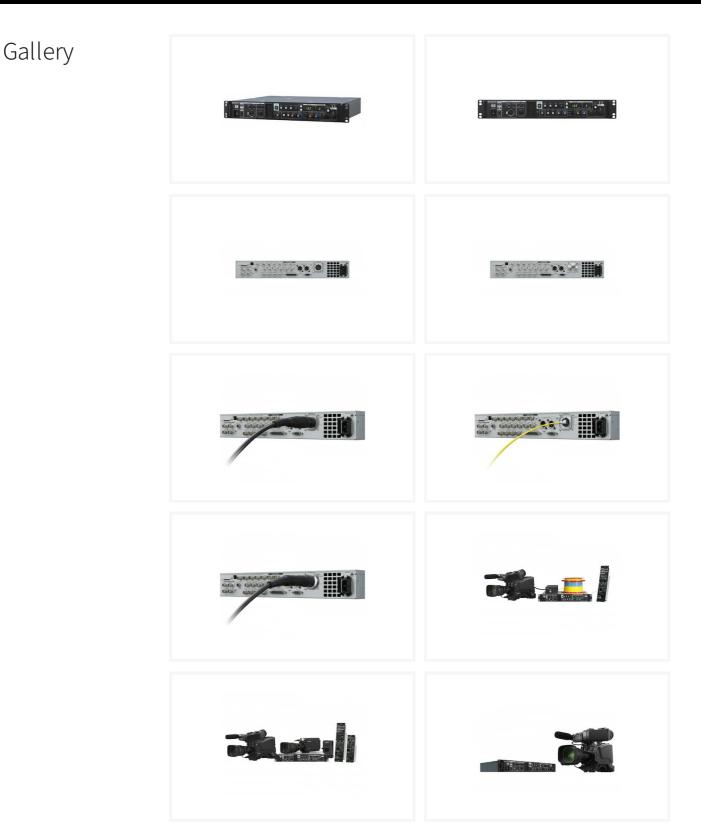Remote-control panel for HDC/HSC/HXC series cameras

**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