

HXCU-FZ90

4K / HD Camera Control Unit for
HXC-FZ90 cameras



Overview

Studio camera system with HDR capability

In combination with the HXC-FZ90 camera and HZC-UHD9, the HXCU-FZ90 CCU also supports 4K HDR (HLG/S-Log3) and SR Live for HDR, for a cost-effective, future-proof solution.

Model variations

HXCU-FZ90N CCU and HXC-FZ90N camera both equipped with Neutrik connector interface

HXCU-FZ90L CCU and HXC-FZ90L camera both equipped with Lemo connector interface

Features

Multiple frame rates over 3G-SDI and 12G-SDI signals

Work with a camera head and CCU that can comfortably output 2160/50p, 59.94p and 60.00p over 12G-SDI and 1080/50p, 59.94p and 60.00p over 3G-SDI. The new processor can also support 1080/23.98 PsF, 24 PsF and 29.97 PsF.

Future-proof 4K and 4K HDR support

Combine a software upgrade with the HXC-FZ90 to output 4K and 4K HDR (HLG/S-Log3) within BT.2020, depending on the look needed.

Fibre cable extension

Add the HXCE-FZ90 extension unit to carry high quality pictures for up to 10km over a Neutrik single mode fibre connection—or carry both signals and power for up to 300m.

Specifications

General	
Power Requirements	AC 100 V to 240 V, 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. 5.9 kg Approx. 13 lb
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	Optical Fiber (x1), CCFN Cable or Single Mode Fiber Cable (LC type)
Distance of Power Supply	300m
Distance of Fiber Cable by Local Power Supply	10km (max.) by Single Mode Fiber Cable (LC type) (with HXC-FZ90)
Intercom (on the front panel)	EARPHONE : 4-pole mini jack
Intercom/Tally/Program	D-sub 25-pin, female (x1) • INTERCOM (PROD, ENG), 4Wire/RTS: 0 dBu, Clear-Com:-14dBu • PGM • TALLY (R, G) • PREVIEW OUT
Remote	8-pin (x1)
Trunk	12-pin(x1)
LAN COM	RJ-45 8-pin
NETWORK TRUNK	RJ-45 8-pin
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)
Prompter	BNC (x2), In: VBS, 1.0 Vp-p, 75 Ω, 1 system, Out: Loop-Through
SDI I/O 1 ~ 4	3G/HD/SD SDI I/O BNC (x4) 3G SDI : SMPTE ST424/425 Level-A/B、 0.8 Vp-p、 75Ω、 2.970 Gbps/2.967 Gbps HD SDI : SMPTE ST292、 0.8 Vp-p、 75Ω、 1.485 Gbps/1.4835 Gbps SD SDI : SMPTE ST259、 0.8 Vp-p、 75Ω、 270 Mbps 3G SDI/HD SDI/SD SDI

Input

AC In	(x1), AC 100 V to 240 V
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Output

3G/HD/SD SDI OUTPUT
 BNC (x4)

SDI Out 1,2

3G SDI : SMPTE ST424/425 Level-A/B、
0.8 Vp-p、 75Ω、 2.970 Gbps/2.967 Gbps
HD SDI : SMPTE ST292、 0.8 Vp-p、 75Ω、
1.485 Gbps/1.4835 Gbps
SD SDI : SMPTE ST259、 0.8 Vp-p、 75Ω、
270 Mbps
3G SDI/HD SDI/SD SDI

UHD Out 1,2

12G/6G/3G/HD SDI OUTPUT
BNC (x2)
12G SDI : SMPTE ST2082、 0.8 Vp-p、 75Ω、
11.88 Gbps/11.868 Gbps
6G SDI : SMPTE ST2081、 0.8 Vp-p、 75Ω、
5.940 Gbps/5.934 Gbps
3G SDI : SMPTE ST424/425 Level-A/B、
0.8 Vp-p、 75Ω、 2.970 Gbps/2.967 Gbps
HD SDI : SMPTE ST292、 0.8 Vp-p、 75Ω、
1.485 Gbps/1.4835 Gbps

BNC (x1), VBS, 1 Vp-p、 75Ω

Character / Sync	<p>HD SYNC : Tri-level sync、 0.6 Vp-p、 75Ω</p> <p>SD SYNC : NTSC : 0.286 Vp-p、 75Ω</p> <p>PAL : 0.3 Vp-p、 75Ω</p>
Audio Out CH-1, CH-2	XLR 3-pin, male (x2), 0/-20 dBu/+4dBu
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>

Related products



HXC-FZ90

HXC-FZ90 portable studio camera system for 4K/HD production



HXCE-FZ90

Camera extension unit for HXCE-FZ90



ILME-FR7

Cinema Line Full-frame PTZ Interchangeable Lens camera with 15+ stop dynamic range, 4K (QFHD) high-frame-rate 120fps, Fast Hybrid & Real-time Eye AF, and S-Cinetone™ colour science



HZC-UHD9 / HZC-UHD9M / HZC-UHD9W

Software licenses for HXC-FZ90 to shoot 4K Video

Gallery

