

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

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

The HXCU-FZ90L CCU and HXC-FZ90L camera are both equipped with a 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.

Fiber cable extension

Add the HXCE-FZ90 extension unit to carry high-quality pictures for up to 6.21 mi over a Neutrik single mode fiber connection –or carry both signals and power for up to 3.28 yd.

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	300 m
Distance of Fiber Cable by Local Power Supply	10 km (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) <ul style="list-style-type: none"> • INTERCOM (PROD, ENG), 4 Wire/RTS: 0 dBu, Clear-Com: -14 dBu • 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, 75 Ω, 2.970 Gbps/2.967 Gbps HD SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps SD SDI: SMPTE ST259, 0.8 Vp-p, 75 Ω, 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)
3G SDI: SMPTE ST424/425 Level-

SDI Out 1,2

A/B,
0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps
HD SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω,
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, 75 Ω,
11.88 Gbps/11.868 Gbps
6G SDI: SMPTE ST2081, 0.8 Vp-p, 75 Ω,
5.940 Gbps/5.934 Gbps
3G SDI: SMPTE ST424/425 Level-A/B,
0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967 Gbps
HD SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω,
1.485 Gbps/1.4835 Gbps

BNC (x1), VBS, 1 Vp-p, 75Ω
HD SYNC: Tri-level sync, 0.6 Vp-p,

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

Related products



HXC-FZ90

HXC-FZ90 portable studio camera system for 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™ color science



HZC-UHD9 / HZC-UHD9M / HZC-UHD9W

Software licenses for HXC-FZ90 to shoot 4K Video

Gallery

