

CU-HD1300FT Series

3G Hybrid Digital Triax and Fiber System



CU-HD1300FT (Fiber/triax). Rear view. Shown with optional 4K 12G SDI/ Quad Link outputs.

CU-HD1300FT series

Hitachi's new CU-HD1300 series of Camera Control Units provides both triax and Fiber cable functionality. The system transports uncompressed digital video on SMPTE Fiber. Hitachi's advanced digital modulation is employed with visually lossless 1080p images on triax. Switching from Fiber to triax cable only requires changing the camera cable adapter.

CU-HD1300 4K Option*: A 4K/UHD board consisting of dual 12G SDI outputs and one set of Quad Link SDI. The 4K output is compatible with Fiber or triax connected 1080p Hitachi HDTV studio cameras.

CU-HD1300 ST 2110 Option*: SMPTE ST 2110 Media over managed IP networks. All currently manufactured camera and head adapters can deliver SMPTE ST 2110 when connected to the CU-HD1300. High Dynamic Range is available with IP-based transport.

*Options available on new CU-HD1300 models.

CU-HD1300FT Digital Triax & Fiber Camera Control Unit

- 3G (1080p) / 1.5G (1080i) video transmission.
- Auto power switching 100/240VAC 47- 63 Hz.
- TCP/IP Network connectivity via RJ-45.
- CCU OPT&TRX LEDs show cable condition.
- Triax/Fiber CCU equips both triax and Fiber connectors and transmits 3G (1080p) video.
- Dual workflow. Simultaneous SDR and HDR outputs with individual adjustments.

Triax Mode

- Digital modulation technology transmits high bitrate signal over long distance triax cable.
- Ultra-low latency codec. Less than 1 field (<20ms) latency by multi-slice H.264 codec.

Fiber Mode

- 9.5mm SMPTE cable, 13,000 ft transmission.
- Single mode fiber, up to 10Km transmission.

Option Models

CU-HD1300F + CA-HF1300; Fiber configuration.
 CU-HD1300T + CX-HD1300; Triax configuration.
 CU-HD1300FT+CA-HF1300/CX-HD1300 Fiber & triax.

*S1 suffix: 4K 2160p 12G SDI outputs.

*S4 suffix: MoIP (ST 2110 and NMOS).

Camera Control Unit CU-HD1300FT / CU-HD1300T

GENLOCK IN	1X BNC • B-BST 0.45V p-p/75 (loop through) • HDTV Tri-level sync 0.60V p-p/75 (loop through)
RETURN IN (1/2/3/4)	2X BNC, 3G SDI/HD-SDI (1080i or 720p) /SD SDI
RETURN B IN	• 3G-SDI: SMPTE 424/425 Level-A • HD-SDI: SMPTE 292M • SD-SDI: SMPTE 259-C
PROMPT IN	1X BNC, VS or VBS 1.0V p-p 75 (loop through)
HD/SD OUT (1/2/3)	6X BNC, 3G-SDI (1080p) / HD-SDI (1080i/25p, 1080/25PsF, 1080i or 720p) /SD SDI selectable (Embedded audio available) • 3G-SDI: SMPTE 424/425 Level-A • HD-SDI: SMPTE 292M • SD-SDI: SMPTE 259-C
PIX/WFM OUT	1X BNC, 3G-SDI (1080p) / HD-SDI (1080i/25p, 1080/25PsF, 1080i or 720p) /SD SDI selectable (Embedded audio available) • 3G-SDI: SMPTE 424/425 Level-A • HD-SDI: SMPTE 292M • SD-SDI: SMPTE 259-C
MIC OUT 1	1x XLR, 3pin, 0dBm/ 600
MIC OUT 2	1x XLR, 3pin, 0dBm/ 600
INTERCOM (HEADSET)	1x XLR, 5pin, 0dBu Max +15db
REMOTE 1	1x 4-pin, 1.5Vp-p or 1x D-sub, 9-pin RS232C (Switchable)
REMOTE 2	1x 4-pin, 1.5Vp-p
REMOTE 3	1x RJ-45
COMMUNICATION INTERCOM	1X D-sub 25-pin 0dBm, 600 4 Wire 0dBu or -15dBu, 200 at 2 Wire (ENG, PROD, PGM) *Trunk data RJ45/RS-422, 1,500 baud, (*Option)
TALLY OUT (R.G)	1x D-sub 9-pin, Contact 24VDC, 10mA
WFM CONTROL	1x D-sub, 15-pin WFM 0-7, 0/5V
Power Supply Voltage	100 to 240VAC 47 to 63 Hz (with auto-sensing mode)
Mass	11 kg, 24.3 lbs. approx.
Dimensions	432 (W) x 88 (H) x 419 (D) mm, 2RU
Operating Temperature	32° F to 104° F
Power Consumption	300W approx. (AC operation, incl. SK-HD1300, VF-402, & AUX POWER OUT 100VA)

Camera Head Cable Adapters

CX-HD1300 Triax Cable Adapter

CA-HF1300 Fiber Cable Adapter



These specifications subject to change without notice

CAUTION: To ensure safe operation, please read the instruction manual before using this product.

Hitachi Kokusai Electric Inc.

Head Office : 32, Miyuki-cho, kodaira-shi, Tokyo 187-8511, Japan
Phone : +81-50-3383-3432 Fax : +81-42-322-3270
URL : <http://www.hitachi-kokusai.co.jp/global/en/index.html>

Hitachi Kokusai Electric America, Ltd.

<http://www.hitachikokusai.com/>

Headquarters 104 Feeding Hills Road, Southwick, MA 01077
Toll Free: +1 (833) 227-1658 Tel: +1 (669) 207-5038

West Sales 11258 Monarch Street Suite H Garden Grove, CA 92841
Tel: +1 (516) 682-4448

East Sales Tel: +1 (516) 682-4445

Midwest Sales Tel: +1 (516) 682-4450

South Sales Tel: +1 (516) 682-4453

Latin/Canada Sales Tel: +1 (516) 682-4408