HDCE-RX30

IP CCU extension adaptor for
remote live production (receiver)

NETWORKED **LIVE**

Overview

The HDCE-RX30 IP Camera Control Unit (CCU) extension adaptor supports IP routing with HDCE-TX30 between Camera and CCU for multi-studio use, in order to reduce the cost and complexity of remote live production.

Used in conjunction with the HDCE-TX30 IP camera extension adaptor, the HDCE-RX30 connects directly to a CCU (camera control unit) that is situated remotely from the camera head. Uncompressed signals from Sony HDC-3500/3100 and HDC-2500/2400/1700 series system cameras are converted to SMPTE ST 2110 and streamed over the IP network with no limitation on distance between camera head and CCU.

Support for leading IP intercom vendors, including RTS, Clear-Com, and Riedel, allows producers and directors at the main production center to communicate in real time with camera operators at a remote venue.

Used in conjunction with the HDCE-TX30 transmitter, the HDCE-RX30 also simplifies centralized allocation of equipment between multiple studios, control rooms, and machine rooms, allowing camera signals to be routed instantly over IP to another part of the facilities.

The software license for IP HDCE to support JPEG XS[*2] without

any external boxes is currently under development.

*1 For more details on the JT-NM Tested program in March 2020 and test results, please go to https://jt-nm.org/jt-nm_tested.

*2 JPEG XS is a new ultra-low latency compression technology, which is beneficial in live productions with limited bandwidth.

Features

Cost-effective IP upgrade
The HDCE-RX30 IP camera extension adaptor allows broadcasters, OB providers, and live-production specialists to upgrade to the benefits of IP Live production without needing to replace their current HDC camera investments. The HDCE-RX30 connects directly to a CCU that is located remotely from the camera head and HDCE-TX30 extension adaptor transmitter.

Efficient resource sharing
The HDCE-RX30 allows faster, more cost-effective use of shared production resources across multiple studios and locations, while conventional SDI infrastructures tie one camera to a single CCU by fiber cable. Used in conjunction with the HDCE-TX30, it allows flexible reconfiguration of cameras, CCUs, and other live equipment over IP without time-consuming reconnection of cables. This reduces the quantity of live equipment needing to be kept at each site, allowing resources to be shared efficiently.

Power supply from CCU
The HDCE-RX30 draws power directly from the connected camera control unit.

HD 4x High Frame Rate capability (PAIR MODE)
HD 4x High Frame Rate output is available with HDC-3500 optical fiber studio camera with HZC-QFR50 HD4x software license. The HDCU-3500 support HD4x SDI output as standard, HD4x IP output with HKCU-SFP50 IP option.

4K Upgrade option (PAIR MODE)

4K IP output is available via an optional software license HZCU-UHD35 in the HDCU-3500 with HDC-3500/3100 and HDC-2500 series optical fiber studio cameras. No software license required for IP HDCE.

MENU setting from web browser

The IP HDCE supports menu control from a web browser. The status monitoring of multiple IP HDCEs and CCUs, setting file import/export and remote firmware updates enhance the efficiency and convenience of the operation.

Specifications

General	
Power requirements	AC 240 V, 1.7 A (MAX), DC 12 V, 10 A (MAX), DC 240 V, 1.05 A (MAX)
Operating temperature	-10°C to +40°C (14°F to +104°F)
Storage temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Mass	Approx. 4.4 kg (9 lb 8.4 oz)

Input/output connectors	
CAMERA	-
CCU	Optical fiber connector (LEMO 3K.93C connector) (x1)
RCP	8-pin multi-connector (x1)

LAN-COM	-
NETWORK TRUNK	3G/HD/SD-SDI I/O, BNC (x2), 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 Ω, 2.970 Gbps/2.967
SDI I/O 1 to 2	Gbps, HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
REFERENCE IN/OUT	-
EARPHONE	-
USB	USB 2.0 type A, 4-pin (x1)
LAN 1 to 2	4-pole mini jack (x1) USB 2.0 type A, 4-pin (x1) SFP+, SFP28, 10GBASE-**, 25GBASE-**

Input connectors

AC IN	-
DC IN	XLR type 4-pin (x1), 10.5 to 17 V DC
SDI RET 1	-

Output connectors

	3G/HD-SDI OUTPUT, BNC (x1), 3G-SDI: SMPTE ST424/425 Level-A/B,

SDI OUT 1	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 3G-SDI/HD-SDI/SD-SDI, character signal selectable

Supplied accessories

Supplied accessories	Before Using this Unit (1), Operating Instructions (CD-ROM) (1)

Optional accessories

Optional accessories	HZCE-CNFG50 Configuration Control software, HZCE-SNMP50 SNMP Agent software, service manual

Related products

HZCE-SNMP50

SNMP license for HDCE-TX30/HDCE-RX30

HZCE-CNFG50

Ember+ license for HDCE-TX30/HDCE-RX30

HDCE-TX30

IP camera extension adaptor for remote live production (transmitter)

HDC-1700

Multi format HD portable system camera

HDC-3100

Three 2/3-inch CMOS sensors portable system camera for fiber operation

HDC-3500

Three 2/3-inch 4K CMOS sensors portable system camera for fiber operation

Gallery

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