SONY

HDCE-RX30

IP CCU extension adaptor for remote live production (receiver)



NETWORKED LIVE

Overview

The HDCE-RX30 IP Camera Control Unit (CCU) extension adaptor support 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 the CCU (camera control unit) that can sited 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 centre 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 centralised 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 the CCU that can be 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 resource across multiple studios and locations. While conventional SDI infrastructures tie one camera to a single CCU by fibre 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 HFR capability (PAIR MODE)
HD 4x HFR 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 support menu control from web browser. The status monitoring of multiple IP HDCE and CCU, setting file import/export and remote firmware update 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)
Weight	Approx. 4.5 kg (9 lb 15 oz)

Input/output connectors	
CCU	Optical fiber connector (LEMO 3K.93C connector) (x1)
LAN-COM	8-pin (1)
LAN 1 to 2	SFP+, SFP28 10GBASE-**, 25GBASE-** (depending on SFP+/SFP28 transceiver module) For information about the supported SFP+ and SFP28 transceiver modules (e.g. OTM-10GSR1), contact your Sony sales or service representative.
SDI OUT	SDI Out 1 : 3G/HD-SDI OUTPUT, BNC (x1), 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 3G-SDI/HD-SDI/SD-SDI, character signal selectable

Input/output connectors

SDI I/O	SDI I/O 1 to 2 : 3G/HD-SDI OUTPUT BNC-type (1) 3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps 3G-SDI/HD-SDI, character signal selectable
USB	USB 2.0 type A, 4-pin (x1) (used for USB flash drive)
DC IN	XLR type 4-pin (x1), 10.5 to 17 V DC

Supplied accessories

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

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-2400

3G multi format HD system camera



HDC-2500

3G double-speed multi format HD system camera



HDC-3100

2/3-type 3-CMOS sensor portable system camera for fibre operation



HDC-3500

2/3-type 4K 3-CMOS sensor portable system camera with HD 4x HFR capability

Gallery











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