SONY

HDCE-TX30

IP camera extension adaptor for remote live production (transmitter)

NETWORKED LIVE

Overview

The HDCE-TX30 IP camera extension adaptor reduces the cost and complexity of remote production, simplifying connection of Sony HDC-3500/3200/3100 and HDC-2500/2400/1700* series system cameras to an SMPTE ST 2110 IP network.

Easily carried in a flight case, the compact 1/3 rack width adaptor connects directly to a camera head in the field. Compliant with the SMPTE ST 2110 family of open standards, the HDCE-TX30 transmits signals from the camera head over IP networks to the Camera Control Unit (CCU) sited at a remote production centre.

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

The HDCE-TX30 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 facility without needing to re-connect fibre cables.

The software license to support JPEG XS without any external box is available.

*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 Product availability varies per region.

Features

Cost effective IP upgrade

The HDCE-TX30 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.

Efficient resource sharing

The HDCE-TX30 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, the HDCE-TX30 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 to camera and interfaces

The HDCE-TX30 provides power to the camera head and system interfaces including IP Tally and IP Intercom.

4K Upgrade option (DIRECT MODE)

4K IP output is available via an optional software license HZCE-UHD30. The HDCE-TX30 also provides a pathway for IP operation with HDC 3500/3100 and HDC-2500 series optical fiber studio cameras.

HD 4x HFR IP capability(DIRECT MODE)

HD 4x HFR IP output is available with HDC-3500 optical fiber studio camera with optional HZC-QFR50 HD 4x HFR software license.

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.

JPEG XS capability

With optional software license, the HDCE-TX30 can support encoding and decoding that save bandwidth without compromising quality. It results in cost saving and workflow efficiency as more signals from different camera positions can be transmitted at one time.
Sony offers a range of weekly/monthly/permanent licenses so users can choose the one that suits their production needs.

Specifications

General	
Power requirements	100 V to 240 V AC, 50/60 Hz
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. 6 kg (13 lb 3.6 oz)

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

RCP	8-pin multi-connector (x1)
LAN-COM	8-pin (x1)
NETWORK TRUNK	8-pin (x1)
SDI I/O 1 to 2	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
REFERENCE IN/OUT	Gbps, HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 Ω, 1.485 Gbps/1.4835 Gbps
EARPHONE	BNC (x1), HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω, SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/
USB	PAL: 0.3 Vp-p, 75 Ω) or NTSC 10F-BB
LAN 1 to 2	4-pole mni jack (x1) USB 2.0 type A, 4-pin (x1) SFP+, SFP28, 10GBASE-**, 25GBASE-**

Input connectors

AC IN	100 V to 240 V (x1)
DC IN	-

SDI RET 1	BNC (x1), 3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps, HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps

Output connectors

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

Supplied accessories

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

Optional accessories

HZCE-DIR50 Direct Mode software, HZCE-CNFG50 Configuration Control software, HZCE-SNMP50 SNMP Agent software, Power Code set (1-791-041-XX), Power Code

Optional accessories	Plug holder (3-613-640-01), Conversion plug 3-pole to 2-pole (1-793-461-XX), Connection Cable CCA-5-3 (3m), Connection Cable CCA-5-10(10m)

Related products

HZCE-DIR50

Direct mode license for HDCE-TX30

HZCE-SNMP50

SNMP license for HDCE-TX30/HDCE-RX30

HZCE-CNFG50

Ember+ license for HDCE-TX30/HDCE-RX30

HDC-3100

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

HDC-3500

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

HDCE-RX30

IP CCU extension adaptor for remote live production (receiver)

HDC-1700

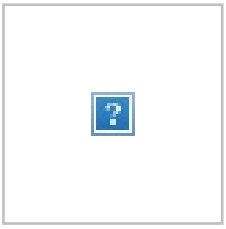
Multi format HD portable system camera

HDC-2400

3G multi format HD system camera

HDC-2500

3G double-speed multi format HD system camera



HDCU-3100

IP enabled next

HDCU-3500

IP-ready Camera Control Unit (CCU) for HDC-3500 4K/HD system camera

HZCE-UHD30

Software license for 4K IP output from HDCE-TX30 IP camera extension adaptor

generation Camera
Control Unit

HDC-3200

2/3-inch 4K 3CMOS
Camera System

Gallery