

HDCE-TX30

IP camera extension adaptor for remote live production (transmitter)



NETWORKED LIVE

Overview

The HDCE-TX30 IP camera extension adapter 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 adapter 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 center.

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 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 facility without needing to re-connect fiber 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 resources across multiple studios and locations. While conventional SDI infrastructures tie one camera to a single CCU by fiber cable, the HDCE-TX30 allows flexible reconfiguration of cameras, CCUs and other live equipment over IP without time-consuming reconnection of fiber 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 the 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 the HDC-3500 optical fiber studio camera with optional HZC-QFR50 HD 4x HFR software license.

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.

JPEG | XS capability

With an optional software license, the HDCE-TX30 can support encoding and decoding that saves 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 to 240 V AC, 4.5 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. 6 kg (13 lb 3.6 oz)

Input/Output Connectors

CAMERA	Optical fiber connector (1)
RCP / CNU	8-pin multi-connector (x1)
LAN-COM	8-pin (x1)
NETWORK TRUNK	8-pin (x1)
LAN 1 to 2	SFP+, SFP28 10GBASE-**, 25GBASE-** (depending on the 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/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 Gbps
SDI RET	BNC (x1), 3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps, HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps BNC-type (1) 3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps
AUDIO OUT	EARPHONE: 4-pole mini-jack (Supports 2-pole monaural, 3-pole stereo, 4- pole CTIA standard, 4-pole OMTP standard)
USB	USB 2.0 Type A, 4-pin (1) (used for the USB flash drive)
AC IN	100 to 240 V AC (1)

Supplied Accessories

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



HZCE-DIR50

Direct mode license for HDCE-TX30



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HZCE-SNMP50

SNMP license for HDCE-TX30/HDCE-RX30



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HZCE-CNFG50

Ember+ license for HDCE-TX30/HDCE-RX30



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HDC-3100

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



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HDC-3500

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



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HDCE-RX30

IP CCU extension adaptor for remote live production (receiver)



HDC-1700

Multi format HD portable system camera



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HDCU-3100

IP-enabled next-generation Camera Control Unit

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

HDC-3200

2/3-inch 4K 3CMOS Camera System

Gallery



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