SONY

HDCE-TX50

IP camera extension adaptor for remote live production (transmitter)



NETWORKED LIVE

Overview

The HDCE-TX50 IP camera extension adapter reduces the cost and complexity of remote production, simplifying connection and dual transmission capability for Sony HDC-5500/5000, 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-TX50 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-TX50 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.

* Product availability varies per region.

Features

Cost-effective IP upgrade
The HDCE-TX50 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-TX50 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 fiber cable, the HDCE-TX50 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-TX50 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 with only HZC-UHD50 in HDC-5500/5000 for UHB transmission mode connection.

In case of HB transmission mode with HDC-3500/3100, 4K IP output is available via an optional software license HZCE-UHD30 in HDCE-TX50. The HDCE-TX50 also provides a pathway for IP operation with HDC-5500/5000, HDC 3500/3100, and HDC-2500 series optical fiber studio cameras.

Up to HD 6x High Frame Rate IP capability (DIRECT MODE)
HD 6x (4x, 3x, 2x) High Frame Rate IP output is available with HDC-5500/5000 optical fiber studio camera with optional HZC-HFR50 HD High Frame Rate software license.
HZC-QFR50 also available with HDC-3500/5500/5000 for High Frame Rate up to 4x (3x, 2x).

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-TX50 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 V 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. 6.2 kg (13 lb 11 oz)

Input/Output Connectors	
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-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

Input/Output Connectors

SDI I/O	SDI I/O 1 to 2: 12G/6G/3G/HD-SDI I/O BNC-type (2) 12G-SDI: SMPTE ST2082, 0.8 Vp-p, 75 ohms, 11.88 Gbps/11.868 Gbps 6G-SDI: SMPTE ST2081, 0.8 Vp-p, 75 ohms, 5.940 Gbps/5.934 Gbps 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
SDI RET	SDI RET 1: BNC-type (1) 3G-SDI: SMPTE ST424/425, 2.970 Gbps/2.967 Gbps HD-SDI: SMPTE ST292, 1.485 Gbps/1.4835 Gbps
REFERENCE IN/OUT	BNC-type (1) HD: SMPTE ST274, tri-level sync signal, 0.6 Vp-p, 75 ohms SD: Black burst (NTSC: 0.286 Vp-p, 75 ohms/PAL: 0.3 Vp-p, 75 ohms) or NTSC 10F-BB
AUDIO OUT	EARPHONE: 4-pole mini-jack (Supports 2-pole monaural, 3-pole stereo, 4-pole CTIA standard, 4-pole OMTP standard) Gain: 40 dB
USB	USB 2.0 Type A, 4-pin (1) (used for the USB flash drive)
AC IN	100 V to 240 V AC (1)

Supplied Accessories

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

Related products



HDCU-5000

Camera Control Unit (CCU) for HDC-5500 and HDC-3500/3100 series system cameras



HDCU-5500

IP-ready Camera Control Unit (CCU) for HDC-5500 4K/HD system camera



HDCE-RX50

IP CCU extension adaptor for remote live production (receiver)



HDC-5500

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



HDC-F5500

Super 35-mm 4K CMOS Camera System



HDC-5500R

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

Gallery













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