SONY

# HDCE-TX50

IP camera extension adaptor for remote live production (transmitter)




NETWORKED LIVE

## Overview

The HDCE-TX50 IP camera extension adaptor reduces the cost and complexity of remote production, simplifying connection and dual transmission capability for Sony HDC-5000/3000 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-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.

## 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-5000 series for UHB transmission mode connection.
In case of HB transmission mode with HDC-3000 series, 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-5000/3000 series optical fiber studio cameras.

**Up to HD 6x HFR IP capability (DIRECT MODE)**
HD 6x(4x,3x,2x) HFR IP output is available with HDC-5000 series optical fiber studio camera with optional HZC-HFR50 HD HFR software license.
HZC-QFR50 also available for HFR up to 4x, depending on the camera model.

**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-TX50 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, 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<br>10GBASE-**, 25GBASE-** (depending on SFP+/SFP28 transceiver module)<br>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 :<br>3G/HD-SDI OUTPUT<br>BNC-type (1)<br>3G-SDI: SMPTE ST424/425 Level-A/B, 0.8 Vp-p, 75 ohms, 2.970 Gbps/2.967 Gbps<br>HD-SDI: SMPTE ST292, 0.8 Vp-p, 75 ohms, 1.485 Gbps/1.4835 Gbps<br>3G-SDI/HD-SDI, character signal selectable |

## Input/output connectors

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

## Supplied accessories

| | |
|---|---|
| Supplied accessories | Before Using This Unit (1)<br>Operating Instructions (CD-ROM) (1) |

Information on EU Data Act: Click here to check if your Sony product and/or related service is subject to the EU Data Act.

## 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-5000 series 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 35mm 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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