SONY

HDCE-RX50

IP CCU extension adaptor for remote live production (receiver)



NETWORKED LIVE

Overview

The HDCE-RX50 IP Camera Control Unit (CCU) extension adaptor support IP routing with HDCE-TX50 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-TX50 IP camera extension adaptor, the HDCE-RX50 connects directly to the CCU (camera control unit) that can sited remotely from the camera head. Uncompressed signals from Sony HDC-5500/5000, 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 center to communicate in real time with camera operators at a remote venue.

Used in conjunction with the HDCE-TX50 transmitter, the HDCE-RX50 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 facilities.

The software license for IP HDCE to support JPEG XS* without any external boxes is currently under development.

*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-RX50 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-RX50 connects directly to the CCU that can be located remotely from the camera head and HDCE-TX50 extension adaptor transmitter.

Efficient resource sharing
The HDCE-RX50 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. Used in conjunction with the HDCE-TX50 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-RX50 draws power directly from the connected camera control unit.
HD 6x(4x,3x,2x) HFR capability (PAIR MODE) with HDC-5500/5000 camera via UHB transmission.
HD 4x(3x,2x) HFR output is available with HDC-3500 camera with HZC-QFR50 HD4x software license.
The HDCU-5500/5000 support up to HD6x SDI output as standard for HDC-5500/5000 with HZC-HFR50 software license

4K Upgrade option (PAIR 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.
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.

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	240 V AC, 1.7 A (max) 12 V DC, 10 A (max) 240 V DC, 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. 4.6 kg (10 lb 2 oz)

Input/output connectors	
CCU	Optical fiber connector (1)
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-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 : 3G/HD-SDI I/O BNC-type (2) 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
USB	USB 2.0 Type A, 4-pin (1) (used for USB flash drive)
DC IN	XLR-type 4-pin (1), 10.5 V to 17 V DC

Supplied accessories

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

Related products



HDCE-TX50

IP camera extension adaptor for remote live production (transmitter)



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



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

Gallery













© 2004 - 2026 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

Export PDF : November 28 2026