

# HDCE-RX50

IP CCU extension adaptor for remote live production (receiver)



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## Overview

The HDCE-RX50 IP Camera Control Unit (CCU) extension adaptor supports 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 be situated 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 facility.

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 a CCU that is 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) High Frame Rate capability (PAIR MODE) with HDC-5500/5000 camera via UHB transmission.  
 HD 4x (3x, 2x) High Frame Rate output is available with HDC-3500 camera with HZC-QFR50 HD4x software license.  
 The HDCU-5500/5000 supports 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 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.

#### 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.

## Specifications

### General

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Power Requirements    | 240 V AC, 1.7 A (max)<br>12 V DC, 10 A (max)<br>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<br>10GBASE-**, 25GBASE-** (depending on the 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>3G/HD-SDI I/O<br>BNC-type (2)<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 |
| USB     | USB 2.0 Type A, 4-pin (1) (used for the 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)<br>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-5500 4K/HD system camera



### HDC-5500

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



### HDC-F5500

Super 35-mm 4K CMOS Camera System



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