CH-U331RX

UHD+ HDMI/VGA over IP Receiver with KVM Extension

The CH-U331RX, one part of a 4K UHD Multi-Function Extension system, is able to extend HDMI or VGA signals along with KVM through Cat.5e/6/7 network cable and transmit UHD video signals, audio and USB up to 100m on a single cable. The transmission distance can be further extended (up to 100m per segment) by using gigabit network switches, allowing the user to cascade the system without signal loss or introducing delay.
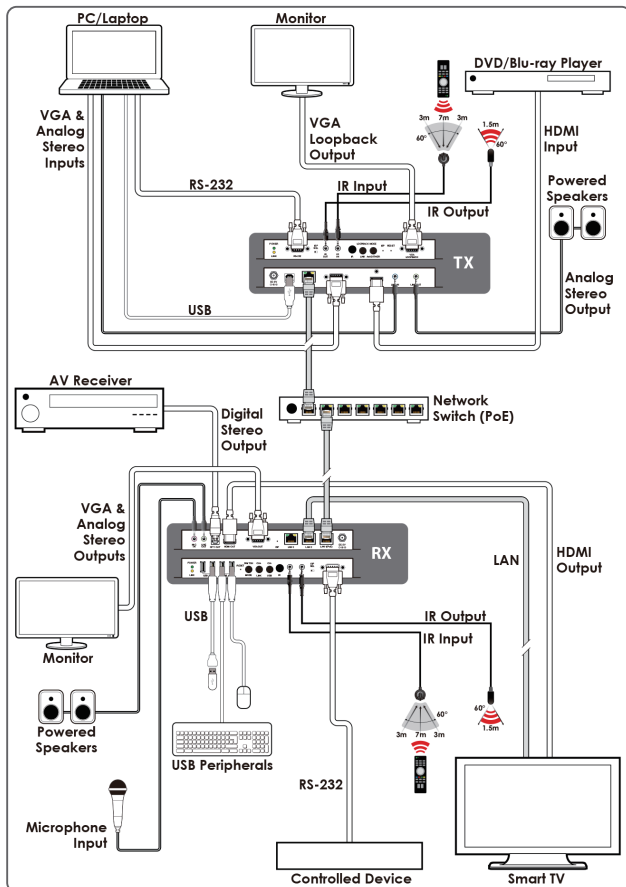
CH-U331RX also allows you to send a single AV signal to a large number of Receivers within the same local network. Additionally, that same multicast signal can be used to create large multi-display video walls with amazing simplicity. This system is perfect for both residential and commercial installation environments.

The USB functionality allows the system to act like a remote USB hub which, when combined with the video extension feature, provides a flexible remote KVM platform. Configuration information is provided via the On-Screen Display (OSD) on the Receivers and both unit types can be controlled via front panel buttons, WebGUI, Telnet, and the AV over IP Master Controller.

PANELS

Front View   Rear View

DIAGRAM

FEATURES

- Video, audio and control reception over TCP/IP in Unicast (point-to-point) or Multicast (single-to-many, many-to-many) modes
- Support video wall with 180° and 270° rotation
- Video output can be scaled to a selected resolution, or left unscaled
- The analog Line In on a connected Transmitter will send audio directly to this Receiver's analog Line Out as well as being embedded into the HDMI output signal
- The Mic In on the Receiver sends audio directly to the analog Line Out on the Transmitter
- May be powered directly by PoE when connected to a Gigabit Ethernet switch that provides PoE (802.3af)
- Includes 3 LAN ports, allowing multiple Receivers to be daisy chained without the need for an external Gigabit Ethernet switch
- Supports USB keyboard, mouse and storage extension

SPECIFICATIONS

Interfaces

Input Port	1 Analog Mono (3.5mm)
Output Port	1 HDMI (Type-A) 1 VGA (HD-15) 1 S/PDIF (TOSLINK) 1 Analog Stereo (3.5mm)
Bi-directional Port	3 GbE LAN (RJ-45)
Control I/O	1 IR Extender (3.5mm) 1 IR Blaster (3.5mm) 1 RS-232 (DB-9) 4 USB (Type-A)

Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)	
HDCP Compliance	2.X	
Input Signal Type	4096x2160p@60 8bit YUV4:2:0	
Output Signal Type	4096x2160p@30 8bit RGB	
		Resolutions
Maximum Input	LAN (Streaming)	4096×2160p@30
Maximum Output	HDMI	4096×2160p@30
	VGA	1920×1200p@60RB

Audio

Digital Formats	HDMI	LPCM (8 Channels), Bitstream, High Bit Rate Bitstream
	Line Out / Optical Out	LPCM (2 Channels), Bitstream
Line Level	Mic In	300 mVrms, S/N Ratio: > 80dB (1kHz with 0dBFS)
	Line Out	2 Vrms, S/N Ratio: > 80dB (1kHz with 0dBFS)

Power

Power Supply	5V/4A DC (Locking) or PoE
Power Consumption	17.68W

Enclosure

Chassis Material	Metal (Steel)
Chassis Color	Black
Dimensions (W×H×D)	231.5mm×25mm×108mm [Case Only] 231.5mm×25mm×120mm [All Inclusive]
Weight	666g

Field Firmware Update

WebGUI

ORDERING INFORMATION

Model No.	Product Description
CH-U331RX	UHD+ HDMI/VGA over IP Receiver with KVM Extension
CH-U331TX	UHD+ HDMI/VGA over IP Transmitter with KVM Extension
CH-U331TR	UHD+ HDMI/DP UHD AV over IP Transceiver with USB/KVM Extension
CDPS-CS7	AV over IP Master Controller