TECHNICAL SPECIFICATION

VIDEO	
Format	HDMI 1.3 (HDCP Compliant)
Resolutions	800x600, 1024x768, 1280x1024, 1366x768, 1920x1200, 480i, 720p, 1080i,1080p, 4K x 2K @30Hz @24bit
Transmission Distance	450 feet (135 meters)
Color Depth	Deep Color 36/30/24 Bit at 1080p and 3D
Audio Format	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
IR Range	38kHz, 56kHz
Video Bandwith	10.2Gbps
Input Video Signal	1.2 Volts P-P
Input DDC Signal	5 Volts (TTL)
I/O CONNECTOR (Transmitter)	
Input	(8) HDMI-A 19-pin (female)
Output	(8) RJ45 Jack
I/O CONNECTOR (RECEIVER)	
Input	(1) RJ45 Jack
Interface	(1) 3.5mm Jack for IR Emitter (1) HDMI-A 19-pin (female)
OTHER	
Power Internal	110/220V
Dimensions	17"W x 3.6"H x 3"D
Weight	4.3 lbs
Approvals	UL, CE, ROHS Compliant
Operating Temp.	0 to 40° C (32° to 104° F)
Storage Temp.	-20° to 60°C (-4° to 140° F)
Humidity	10% to 85% (Non-condensing)

WHAT'S IN THE BOX

PART NO.	Q-TY	DESCRIPTION
RK8- HDX-ULT-TX	1	HDMI, RS232 and IR 8-Port Rackmount Transmitter over a Single Cat5e/6 Cable
Power Cord	1	CCWPWR
Quick Start Guide	1	

NOTICE

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

RK8-HDX-ULT

8-Port HDMI, IR, RS232 and Power Extender Rack Over Cat5e/6

CONSOLIDATE UP TO EIGHT 4K HDMI EXTENDERS IN ONE POWERED RACK UNIT TO TRANSMIT HD SIGNALS UP TO 450 FEET AWAY USING CAT5E/6 CABLES

Quick Start Guide

OVEVIEW

The RK8-HDX-ULT is the perfect solution for extending 4K HDMI signals to 8 remote locations 300 feet via PoE or up to 450 feet when both sides are powered, ensuring peak performance when transmitting ultra-high quality picture resolutions. The RK8-HDX-ULT is the perfect extender solution for any system, and works in tandem with SmartAVI matrixes for robust routing configurations. Plus, with RS-232 and IR remote control, taking command is convenient and easy every time!

It is the ideal way to consolidate up to eight workstation computers into one location. It is fully compatible with MAC, PC and LINUX HDMI standards. Up to eight displays can be extended easily from a rack without the mess or expense of multiple extenders. Rather than buy multiple extenders for rack components, and having to find power strips or numerous power outlets for the adapters, the SmartAVI rack series of extenders allows for up to eight transmitters and eight receivers with only one power supply.

Whether it's for a home entertainment system or a commercial installation, the RK8-HDX-ULT delivers flexibility and control. Don't let the distance bring your system down: let the RK8-HDX-ULT extend your reach today!

FEATURES

- Extends HDMI, IR, and Power Output over Cat5e/6
- Extends IR Control Signals for Remote Control
- Supports 1080p/60fps and 4K/30Hz resolution
- Supports Power over Ethernet (PoE) up to 300 ft
- Transmits up to 450 feet when both sides are powered
- Data Signals up to 3.4Gbps
- HDCP compliant; EDID learning
- Bi-directional IR and RS-232 control
- LED status indicators
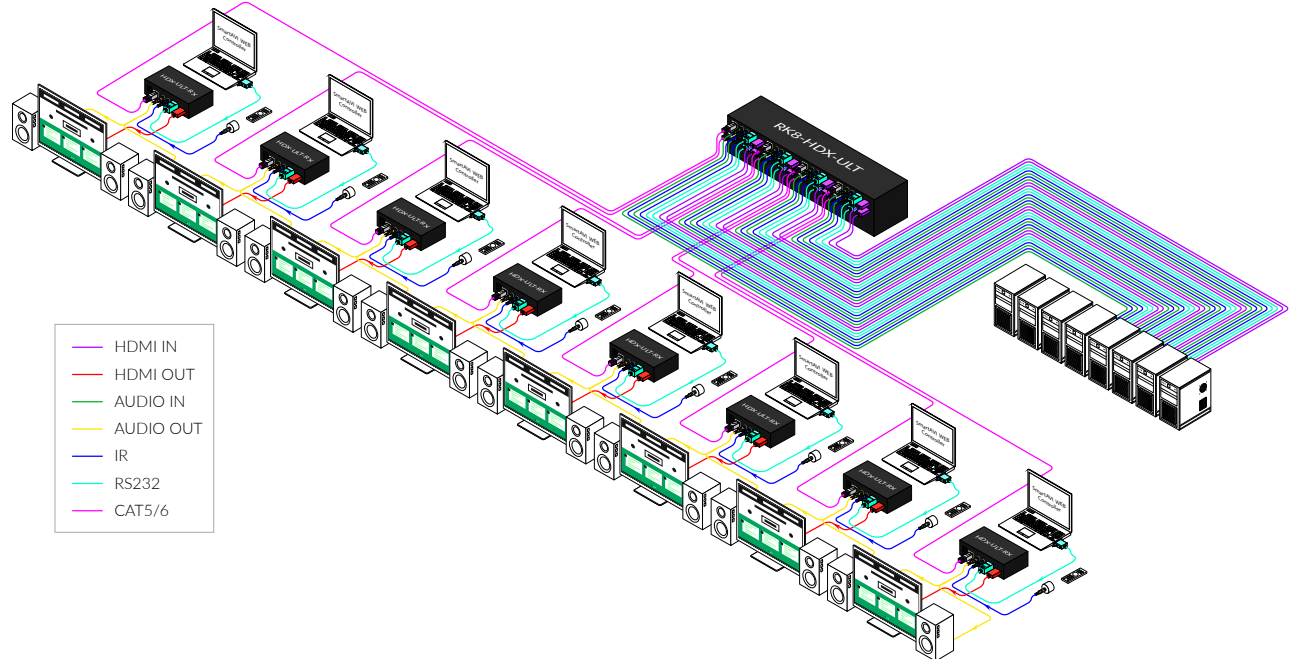- Rack mountable
- Up to 8 units on single rack

HARDWARE INSTALLATION

1. Before connecting, make sure all sources are powered down.
2. Connect an HDMI cable from the HDMI source to the HDMI IN port of the RK8-HDX-ULT transmitter.
3. Connect an IR emitter (optional) to the IR OUT port on the transmitter.
4. Connect the RK8-HDX-ULT transmitter to the HDX-ULT receiver using a CAT5e/6 cable (up to 450ft).
5. Connect an IR receiver (optional) to the IR IN port on the receiver.
6. Connect an HDMI cable from the HDMI OUT port on the RK8-HDX-ULT receiver to the HDMI display.
7. Connect the power on the HDX-ULT transmitters by plugging in their power adapters (12VDC2A) or provide 12VDC input from the rear DC input port.
   NOTE: If the RX side has a connected DC adapter, the TX can get the DC power over the CAT5e/CAT6 cable, so leave the DC input port empty. Only 1 power supply is required for both units. (In certain cases, if the receiver has too much drop off power, we recommend to connect a 12V DC power supply to each receiver.
8. Power on the HDMI source, displays and speakers. The RX will read the EDID from the monitor, and then pass the data into the TX automatically
   INTALLATION NOTE: Do not stack receiver units. Stacking inhibits heat distribution.

——	HDMI IN
——	HDMI OUT
——	AUDIO IN
——	AUDIO OUT
——	IR
——	RS232
——	CAT5/6

RK8-HDX-ULT FRONT

RK8-HDX-ULT BACK