

## TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI 1.3 (HDCP Compliant)
Resolutions	800x600, 1024x768 , 1280x1024, 1366x768, 1920x1200, 480i, 720p, 1080i, 1080p, 4K x 2K @30Hz @24bit
Transmission Distance	70 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 Bandwidth	10.2Gbps
Input Video Signal	1.2 Volts P-P
Input DDC Signal	5 Volts (TTL)
I/O CONNECTOR (Transmitter)	
Input	8 x (HDMI-A) 19PIN Socket 8 x 3.5mm Jack for IR Receiver
Output	8 x RJ45 Jack
I/O CONNECTOR (Receiver)	
Input	1 x RJ45 Jack 1 x 3.5mm Jack for IR Receiver 5 x 2.5mm
Output	1 x 3.5mm Jack for IR Emitter 1 x HDMI-A 19PIN Socket
MECHANICAL - Transmitter	
Dimensions	17"H x 6"W x 1.7"D
Weight	3.26 lbs
Power	110/220V
ENVIRONMENTAL	
Operating Temp.	+0 to +40° C (+32° to 104° F)
Humidity	10% to 85% (Non-condensing)
Storage Temp.	-20° to +60° C (-4° to +140° F)
SAFETY	
Certificate	FCC, CE, RoHS
Power Adapter	UL, CE, FCC, RoHS

## NOTICE

The information contained in this document is subject to change without notice. SmartAVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for particular purpose.

SmartAVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced, or translated into another language without prior written consent from SmartAVI Technologies, Inc.

20180212

**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# RK8-HDX-POE

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



Consolidate up to eight HDMI extenders in one powered rack unit to transmit HD signals using Cat5e/6



Designed and Manufactured in the USA

**800.AVI.2131**

Tel: (818) 503-6200 | Fax: (818) 503-6208  
11651 Vanowen St. North Hollywood, CA 91605

**SmartAVI.com**

**Quick Start Guide**

## INTRODUCTION

The RK8-HDX-POE is the perfect solution for extending HDMI signals to a remote location up to 250 feet away. 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 inputs and eight outputs with only one power supply.

## FEATURES

- Extends HDMI, IR, and Power Output over Cat5e/6
- Extends IR Control Signals for Remote Control
- Full HD support: 1080p @60Hz @48 bit/pixels, 1080p @ 120Hz @24 bit/pixels, 3D 1080p 60Hz and 4K x 2K@ 30Hz @24bit
- Data Signals up to 3.4Gbps
- HDMI 1.4 and HDCP Compliance
- Power receiver from transmitter
- Transmits Dolby TrueHD, DTS-HD MA Audio Signals
- Transmits 1080p Resolution Video up to 250 ft.
- Rack mountable
- Up to 8 units on single rack

## WHAT'S IN THE BOX

PART NO.	DESCRIPTION
RK8-HDX-POE-S	Rack for 8 HDMI & IR Extenders over a Single Cat5e/6 Cable. Includes: [RK8-HDXPOE-TX and (CCWPWR)]
HDX-POE-RX-S	HDX Receiver. HDMI Receiver over Cat5e/6 STP. Includes: [HDX-POE-RX & (PS12VDC2A)]
	Quick Start Guide

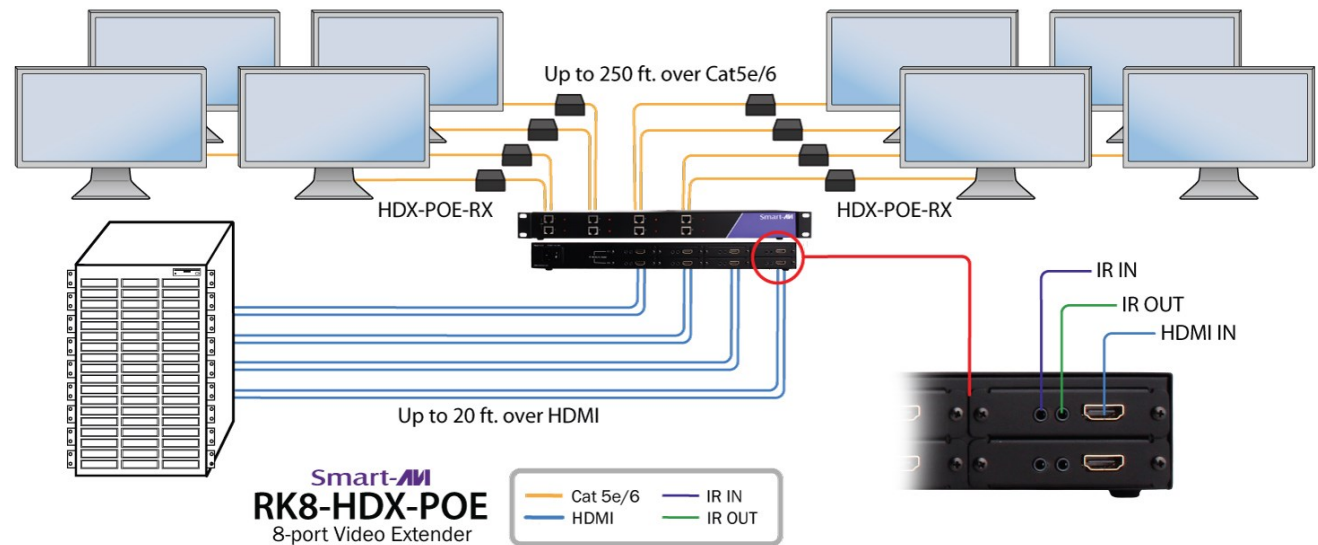
## HARDWARE INSTALLATION

1. Power off the HDMI source and display.
2. Connect an HDMI cable from the HDMI source to the HDMI IN port of the HDX-POE transmitter.
3. Connect an IR emitter (optional) to the IR OUT port on the transmitter.
4. Connect the HDX-POE transmitter to the HDX-POE receiver using a CAT5e/6 cable (up to 150ft).
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 HDX-POE receiver to the HDMI display.
7. Connect the power on the HDX-POE transmitter plugging in their power adapters (12VDC2A) or provide 12VDC input from the rear DC input port.

**NOTE:** If the RX side has connected DC adapter, TX can get the DC power over the CAT5e/CAT6 cable, so leave 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.



## Rear View



## Front View

