



Evolution Ultra Slim HDMI Extender

EV4K2006

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The Evolution by Vanco EV4K2006 HDMI Extender over Single Cat5e/6 with Bi-directional IR, auto EDID/EQ, and Bi-directional PoE extends 4K ultra high definition video with HDR and audio signals, IR, and power. Extends 4K@60Hz, 4:4:4 Chroma Subsampling and HDR up to 164ft/50m, and 4K@30Hz, 4:4:4 Chroma Subsampling, and HDR up to 130ft/40m. Bidirectional Power over Ethernet (PoE) Technology transmits power over Cat5e/6, allowing either the Transmitter or Receiver to be powered without the use of a power supply. No EDID or EQ adjustments are necessary as the units automatically adjust for compatibility and gain. This extender set also features a newly redesigned slim and compact chassis for easy and flexible installations. This product fully supports DTS-HD and Dolby TrueHD audio formats and is HDCP compliant. In addition, bi-directional IR pass-through allows for source or display control. For extending HDMI over a single Cat5e/6 with IR at a long distance, with Power over Ethernet, the EV4K2006 is a great plug and play solution! The EV4K2006 includes two units: transmitting unit (EV4K2006-TX) and receiving unit (EV4K2006-RX). The transmitting unit is used to capture the HDMI input with IR signals and carries the signals via one cost effective Cat5e/6 cable. The receiving unit is responsible for equalizing the transmitted HDMI signal and reconstructing IR signals. The EV4K2006 offers the most convenient solution for HDMI extension over a single Cat5e/6 with Power over Ethernet and is the perfect solution for any application.

Features

- Allows HDMI audio/video signals to be transmitted using a single Cat5e or Cat6 Cable
- Transmission Range: Extends 4K@60Hz, 4:4:4 Chroma up to 164ft/50m and 4K@30Hz, 4:4:4 Chroma and HDR up to 130ft/40m over a single Cat5e/6 cable
- Features Power over Ethernet (PoE) Technology which transmits power over Cat5e/Cat6, allowing the transmitter and receiver to be powered off of a single power supply
- Wideband Bi-directional IR system allowing for control of source or display (IR accessories included)
- Wideband IR signal from 20KHz to 60KHz
- Features Auto EDID and EQ Management for plug and play installation
- HDR10 Compatible
- Works with HDMI and HDCP compliant devices
- HDCP 2.2 compliant
- Slim and compact design
- Pure uncompressed 7.1ch digital audio
- Supports DTS-HD and Dolby TrueHD high bit rate audio
- Dimensions: 2.7 (68.58mm) W x .7 (17.78mm) H x 3.25 (82.55mm)

TECHNICAL SPECS HDMI Compliance HDMI Deep Color 30/36/48 bit color depth, Full 3D HDCP Compliance Yes Video Bandwidth 594 MHz Video Support 480i/480p/720p/1080i/1080p/4Kx2K @60 Audio Support Surround Sound (up to 7.1 ch) or stereo digital audio Input TMDs Signal 1.2 Volts (peak to peak) Input DDC Signal 5 Volts (peak to peak, TTL) ESD protection (1) Human body model +/- 6kV (air-gap discharge) & (contact discharge) (2) Core chipset - +/-8KV PCB stack-up 4 layer board (impedance control - differential 100, single 50 IR pass-thru Full-duplex bi-directional Input (TX) 1xHDMI; (RX) 1xRJ45 + 2x3.5mm Output (TX) 1xRJ45 + 2x3.5mm; (RX) 1xHDMI HDMI source control Controllable via IR pass-through from RX to TX and from TX to RX with IR extenders or via CEC integrated HDMI connector Type A 19 pin female RJ-45 connector WE/SS 8P8C LED indicators Video lock yellow, Power, green 3.5mm connector (TX and RX) IR Receiver/ IR blaster MECHANICAL SPECS Housing Metal enclosure Power supply (1)12V 2A Power consumption 3.5 Watts TX, 2.5 Watts RX Operation temperature 0 ~ 45 degrees Celsius Storage temperature -20~85 degrees Celsius Relative humidity 20-90% RH (no condensation)

