CrystalView HDMI 4K60

4K60 HDBase-T Extender

- ▶ Extends HDMI signals up to 330ft (100m) using a single CAT6 cable and HDBaseT technology
- ▶ Supports HDMI video resolutions up to 4K2K@60Hz and 1080p@60Hz
- ▶ Bidirectional IR control support
- ▶ Full duplex RS-232 extension up to 115,200bps
- ▶ Supports HDCP2.2, 3D Video and HDMI audio
- ▶ Power-over-Cable (PoC) for remote unit power

CrystalView HDMI 4K60 Extender - Overview

The CrystalView HDMI 4K60 Extender transmits HDMI, Serial RS-232, Bi-directional IR and PoC (Power-over-Cable), up to 330ft (100 meters) over a single CAT5e/6 solid core cable.

- ▪ HDMI 2.0a compliant
- ▪ Supports 4K2K@60Hz (4:4:4, 8 bits) and HDR-4K2K@60Hz (4:2:0, 10 bits)
- ▪ Extends a full HD 1080p signal up to 330ft (100meters) and 4K2K@60Hz signal up to 230ft (70 meters)
- ▪ Using Power-over-Cable (PoC) Transmitter and Receiver units are both powered by a single power supply
- ▪ Terminal block connectors support full-duplex serial RS-232 control up to 115,200bps
- ▪ Supports bidirectional IR signaling and IR pass-through at frequencies from 20KHz to 60KHz
- ▪ Video latency less than 20ms
- ▪ Features HDCP 2.2 and EDID pass through
- ▪ HDMI-CEC support
- ▪ Supports uncompressed HDMI 7.1channel digital audio, DTS-HD Master Audio and Dolby TrueHD high-bit rate audio
- ▪ DIP switch for firmware updates
- ▪ Uses standard length HDMI interface cables
- ▪ Wall or desk mounting design for sturdy installation

CrystalView HDMI 4K60 Extender - Introduction

CrystalView HDMI 4K60 Extender boosts digital video and audio transmission distance for 1080p signals to 330ft (100m) over a single CATx cable. HDR 4K signals can be extended up to 230ft (70m) together with high-definition uncompressed 7.1ch audio, DTS-HD Master Audio™ and Dolby TrueHD™ as well as 3D video and deep color video.

The extender features a built-in, bidirectional infrared (IR) signal extender. This allows remote control devices at the Receiver to control signal sources at the Transmitter, such as Blu-ray or HD-TV players.

For added versatility, the Receiver unit can be powered by the power supply at the Transmitter end using Power-over-Cable (PoC), which is ideal for installations where power sources may be limited.

The extender also has terminal block connectors for extending RS-232 signals at baud rates up to 115,200bps over the same single CATx cable, enabling the source to be controlled by remote serial devices.

In summary, the extender can transmit HDMI, IR and RS-232 signals over a single CATx cable. The maximum cable distance is 330ft (100 meters) for 1080p video resolution. LED indicators show the Power, Signal and HDBase-T Link status at each end.
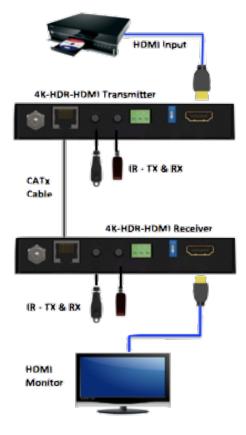

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Application Examples

- *A/V Presentations*
- *Schools & Universities*
- *Retail Store Displays*
- *Conference Centers*
- *Business Lobbies*
- *Shopping Centers*
- *Control Rooms*

- *Digital Signage*
- *Dealer Rooms*
- *Wall Displays*
- *Restaurants*
- *Education*
- *Hospitals*
- *Security*

Extended Video Application

HDMI Input

4K-HDR-HDMI Transmitter

CATx Cable

IR - TX & RX

4K-HDR-HDMI Receiver

IR - TX & RX

HDMI Monitor

Note: Product specifications and details may be updated or changed at any time.

Installation

Connect and HDMI video source to the Transmitter and an HDMI display to the Receiver. Connect IR Transmitters and Receivers to each unit. Connect a CATx solid core extension cable between each end. Plug the 12VDC power adapter to either the Transmitter or Receiver. Power on the display and the video source.

Specifications

Dimensions: (WxDxH)	4.7 x 2.9 x 0.8" (120 x 74 x 20mm)	
Weight	0.4lb (120g)	
Video resolution	4K2K @60Hz (4:2:0, 10 bits), 384MHz 4K2K @60Hz (4:4:4, 8 bits), 594MHz 1080p@60Hz All 3D video formats, x.v. color	
Digital audio	7.1 channel LPCM, Dolby True HD™ and DTS-HD Master Audio™	
Connectors	Transmitter 1 x HDMI (In) 1 x 3.5mm (In) 1 x RJ45 (Out) 1 x 3.5mm (Out) 1 x RS232 (In/Out)	Receiver 1 x HDMI (Out) 1 x 3.5mm (Out) 1 x RJ45 (In) 1 x 3.5mm (In) 1 x RS232 (In/Out)
Video bandwidth	Single link 600MHz, up to 18Gbps.	
IR pass-thru	Bi-directional	
Serial RS232	Full-duplex, 115,200bps, TX, RX, GND	
Input TMDS signal	1.2 volts (peak-to-peak)	
Input DDC signal	5 volts (peak-to-peak) TTL	
DIP switch	Used for firmware upgrade	
LED Indicators	Power, Link and Signal on front panel	
Compliance	HDMI 2.0a, DVI 1.0, HDCP 2.2/1.4	
CATx cable	UTP/STP, solid-core, EIA/TIA-568-B	
EDID management	Automatic pass through	
ESD protection	Human body model ±15kV (air-gap discharge). Contact discharge ±8kV	
Power	100-240V, 50/60Hz, 12V/2A PoC from TX or RX end using 12V PSU	
Power consumption	3W (Transmitter), 7W (Receiver)	
Operating temp	32°F to 104°F (0°C to 40°C)	
Humidity	20% - 90% relative humidity, non-cond	
Approvals	FCC, CE, RoHS, WEEE	

Part Numbers

CRK-1DTX0H1-ASR/P	HDR 4K2K HDMI Extender
CRV-SLDTX0H1-ASR/P	HDR 4K2K HDMI Extender -Transmitter
CRV-SRDTX0H1-ASR/P	HDR 4K2K HDMI Extender - Receiver
CAB-HDMIMM006	HDMI Extension cable M/M, 6ft, 2.0m
CAB-HDMIMM010	HDMI Extension cable M/M, 10ft, 3.0m
ACC-DVIFHDMIM	HDMI(M) to DVID(F) adapter cable

CrystalView HDMI 4K60 Extender – Front Panel

CrystalView HDMI 4K60 Extender – Rear Panel

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