



- ▶ Extends HDMI signals up to 330ft (100m) using a single CAT6 cable and HDBase-T technology
- ▶ Supports HDMI video resolutions up to 4K2K@60Hz and 1080p@60Hz
- ▶ Bidirectional IR receivers and transmitters
- ▶ RS-232 for serial control signal transmission
- ▶ Supports HDCP2.2, 3D Video and HDMI audio
- ▶ Power-over-Cable (PoC) for remote unit power

Features and Benefits

- HDMI 2.0a compliant with HDCP 2.2
- Supports 4K2K@60Hz (4:4:4, 8 bits) and HDR-4K2K@60Hz (4:2:0, 10 bits)
- Extends and HDMI signal up to 330ft (100 meters) at Full HD 1080p, 48-bit and up to 265ft (80 meters) at HDR-4K2K@60Hz
- Supports Power-over-Cable (PoC) so that both the TX and RX units are powered from a single source.
- Supports full-duplex serial RS-232 control up to 115,200bps through a terminal block connector
- Supports full frequency, bi-directional IR signaling and IR pass-through from 20KHz to 60KHz
- IR transmitter(blaster) and receiver are supplied with package
- Supports uncompressed HDMI 7.1ch digital audio, DTS-HD Master Audio and Dolby TrueHD high-bit rate audio
- Video latency less than 20ms
- HDMI-CEC support
- DIP switch for firmware updates
- Wall or desk mounting design for quick and easy installation

Product Overview

Extend full HDMI-HD video over a single CATx cable, including 4K2K at 265ft (80 meters) and 1080p@60Hz at up to 330ft (100 meters), together with high-definition uncompressed 7.1ch audio, DTS-HD Master Audio™ and Dolby TrueHD™.

The extender features a built-in, bidirectional infrared (IR) signal, enabling remote control of devices at the source or destination end of the connection. For example, normal operation would allow control of the source Blu-ray or HD-TV player from the remote TV location.

For added versatility, both the transmitter and receiver units can be powered from the same power supply using Power-over-Cable (PoC), which is ideal for installations where power sources may be limited. Additionally, the extender is capable of transmitting RS-232 serial control signals up to 115,200bps over the same CATx cable, enabling the remote connection of any serial device that would normally be direct connected to the host device.

In summary, the extender can transmit HDMI, IR and RS-232 signals over a single CATx cable. The maximum cable distance is recommended as 330ft (100 meters) for the lower video resolutions.

LED indicators show the Power, Signal and HDBase-T Link status at each end.

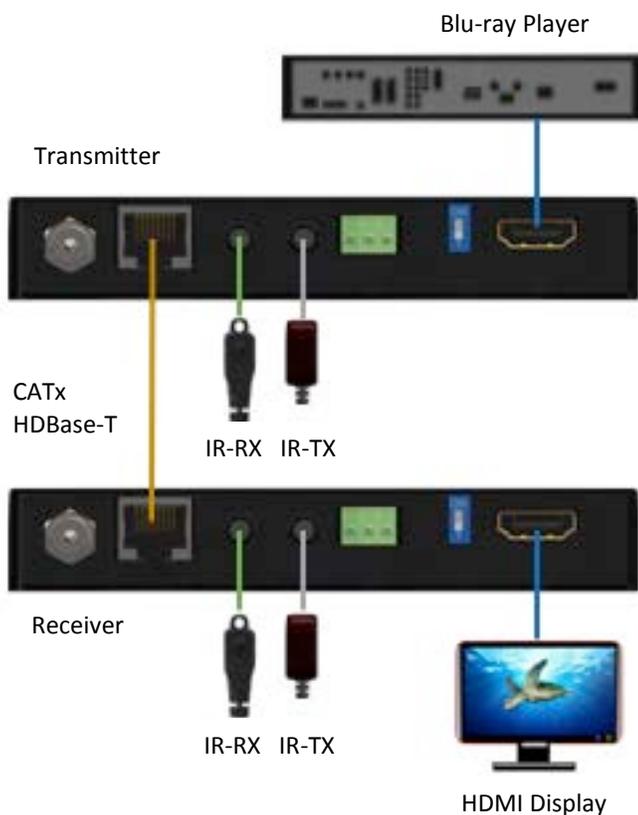
Application Examples

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| <ul style="list-style-type: none"> A/V Presentations Schools & Universities Retail Store Displays Conference Centers Business Lobbies Shopping Centers Control Rooms | <ul style="list-style-type: none"> Digital Signage Dealer Rooms Wall Displays Restaurants Education Hospitals Security |
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All-In-One Extension

The CrystalView HDMI 4K60 Extender can be used to transmit an HDTV source from a DVD player, a Blu-ray disc, PS4, PC or any other TMDS compliant source to a remote HDMI or DVI monitor or TV set. The HDMI technology supports 3D, deep color video, DTS-HD, Dolby TrueHD audio, and HDCP. Added features included RS-232 and IR signal control, and all this across a single CATx cable up to 330ft (100 meters) distance.

Extended HDMI Video Application



Specifications

Dimensions (W x D x H)	4.7 x 2.9 x 0.8" (120 x 74 x 20mm)	
Weight	0.4lb (120g) (each unit)	
Power	100-240V, 50/60Hz, 12V/2A PoC from TX or RX end using 12V PSU	
Power consumption	3W (Transmitter), 7W (Receiver)	
Video resolution	4K2K@60Hz (4:2:0, 10 bits), 384MHz 4K2K @60Hz (4:4:4, 8 bits), 594MHz 1080p@60Hz to 330ft (100m) All 3D video formats, x.v. color	
Digital audio	Surround sound 7.1 channel LPCM, Dolby True HD™ and DTS-HD Master Audio™	
Connectors	Transmitter 1 x HDMI (In) 1 x 3.5mm, IR-TX 1 x 3.5mm, IR-RX 1 x RJ45, 8P8C (Out) 1 x RS-232 (In/Out)	Receiver 1 x HDMI (Out) 1 x 3.5mm, IR-TX 1 x 3.5mm, IR-RX 1 x RJ45 8P8C (In) 1 x RS-232 (In/Out)
Video bandwidth	Single link 600MHz, up to 18Gbps.	
IR pass-through	Bi-directional	
Serial RS-232	Full-duplex, 115,200bps, TX, RX, GND	
TMDS signal	1.2 volts (peak-to-peak)	
DDC signal	5 volts (peak-to-peak) TTL	
DIP Switch	Used for firmware upgrade	
LED's	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 support	Automatically detects/manages EDID	
ESD protection	Human body model - +/- 15kV (air-gap discharge). Contact discharge - +/-8kV	
Environment	Operating temp: 32°F – 104°F (0°C – 40°C) Storage temp: -4°F – 140°F (-20°C – 60°C) Rel. humidity: 20 to 90%, non-condensing	
Approvals	FCC, CE, RoHS, WEEE compliant	

Part numbers

CRK-1DTX0H1-ASR/P	CrystalView HDMI 4K60 Extender with IR transmitter, receiver and power supply
CRV-DLDTX0H1-ASR/P	CrystalView HDMI 4K60 Extender (Transmitter unit)
CRV-SRDTX0H1-ASR/P	CrystalView HDMI 4K60 Extender (Receiver unit)
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

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