CrystalView HDMI 4K60 HDBase-T Extender

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

- 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

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

![Diagram of CrystalView HDMI 4K60 Extender](image-url)

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**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)
- **DCC 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