

Transmitter/Receiver

Model No.: CLA-TxRx70HDMI



SUMMARY

The HDMI Extender is a high-performance solution designed to deliver seamless long-distance transmission of HDMI HD signals and IR control. Supporting distances of up to 230ft / 70m over a single CAT6/6a cable, it ensures zero-delay, uncompressed communication between transmitter and receiver. With video resolutions up to 4K@60Hz, this extender guarantees crystal-clear visuals for demanding applications. It features EDID copy pass-through for optimal compatibility between source and display devices, along with Power over Cable (PoC) functionality that simplifies installation by eliminating the need for separate power supplies. Engineered for reliability and versatility, this HDMI Extender is ideal for use in multimedia conference halls, educational environments, and large-scale display systems.

FEATURES

- ❖ **HDCP 2.2 Compliant**
Ensure secure and reliable content protection for premium video sources.
- ❖ **High-Speed Performance**
Supports up to 18Gbps video bandwidth for seamless transmission of ultra-high-definition content.
- ❖ **4K Ultra HD Resolution**
Delivers crystal-clear video up to 4K2K@60Hz RGB/YCBCR 4:4:4, fully compliant with HDMI 2.0b standards.
- ❖ **Extended Transmission Range**
Signal can be transmitted up to 230ft / 70m using a single CAT6/6a cable, maintaining uncompromised quality.
- ❖ **Advanced HDR Support**
Compatible with HDR, HDR10, HDR10+, Dolby Vision, and HLG, providing vivid color and dynamic contrast.
- ❖ **Bi-Directional IR Pass-Through**
Enables seamless remote control functionality across connected devices.
- ❖ **Premium Audio Formats**
Supports LPCM 7.1, Dolby TrueHD, and DTS-HD Master Audio for immersive sound experiences
- ❖ **EDID Copy Function**
Ensures optimal communication between source and display devices for maximum compatibility
- ❖ **ARC & Audio De-Embedding**

Extracts audio via the receiver's optical fiber port, supporting Audio Return Channel (ARC) for flexible integration

❖ **Bi-Directional PoC (Power over Cable)**

Simplifies installation by powering both transmitter and receiver through a single cable

❖ **Compact & Versatile Design**

Streamlined form factor allows for easy, flexible installation in any setup.

HDMI Matrix

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SPECIFICATIONS

Model	CLA-TxRx70HDMI
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@60Hz RGB/YCBCR 4:4:4
IR Level	5Vp-p
IR Frequency	Wideband 20K-60KHz
Transmission Distance	4K2K@60Hz 4:4:4--70m, 1080P--70m (CAT6/6a cable)
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI: LPCM 7.1CH, Dolby True HD, DTS-HD Master Optical: Dolby 5.1, DTS 5.1, PCM 2.0
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Transmitter	Input: 1× IN [HDMI Type A, 19-pin female] Output: 1× OUT [HDMI Type A, 19-pin female], 1× CAT OUT [RJ45] Control: 1× SERVICE [Micro-USB jack], 1× IR IN [3.5mm Stereo Mini-jack], 1× IR OUT [3.5mm Stereo Mini-jack]

Receiver	Input: 1 × CAT IN [RJ45] Output: 1 × OUT [HDMI Type A, 19-pin female] 1 × TOSLINK Control: 1 × SERVICE [Micro-USB jack] 1 × IR IN [3.5mm Stereo Mini-jack] 1 × IR OUT [3.5mm Stereo Mini-jack]
Housing	Metal Enclosure
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Color	Black
Power Supply	DC 12V/1A; Support bi-directional PoC function
Weight	3.36 W (max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Humidity	10%~90% (relative humidity, non-condensing)