

MVE-AH1H1-02ZQ ENHANCED HDMI[®] Extender over Cat5e/6

Manual





- Extend HDMI signals up to 330ft (100m) at 1080p over a single Cat5e/6 cable
- Supports resolutions from 480i up to 4Kx2K/UHD
- Plug and play operation comes as a complete set
- Bi-directional IR for remote control extension
- 100BaseT Ethernet pass-through
- Bi-directional RS-232 pass-through
- Includes one (1) 24VDC locking power supply set can be powered at either end

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Introduction:

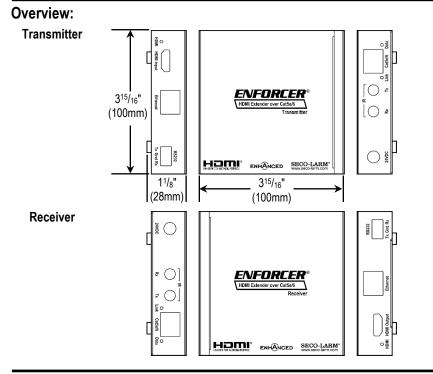
The ENFORCER Enhanced HDMI Extender over Cat5e/6 extends the range of HDMI signals by using an active transmitter and receiver to send video and audio over a single Cat5e/6 cable. 1080p HDMI Signals can be transmitted up to 330ft (100m) between the two units with zero signal loss, while 4Kx2K/UHD HDMI Signals can be transmitted up to 230ft (70m). The extender supports IR signals using the included IR transmitter and receiver, allowing the user to use a remote control from one end of an installation to control a device such as a TV or media player at the opposite end of the installation. The extender also supports 100BaseT Ethernet pass-through and bi-directional RS-232 control. A single power supply can power both devices from either end of the installation.

Features:

- Signal Strength Active operation ensures that the signal strength will remain strong over the length of the cable.
- Distance The Enhanced HDMI Extender over Cat5e/6 can transmit a clear HDMI signal up to 330ft (100m).
- Formats Supported The Enhanced HDMI Extender over Cat5e/6 support both progressive and interlaced formats: 4K/1080p/1080i/720p/576j/576i/480p/480i.
- Plug and Play The Enhanced HDMI Extender over Cat5e/6 come as a complete set consisting of a transmitter, receiver, power supply, and IR adapters. No adjustments or settings need to be made. The unit is ready to use right out of the box.
- Zero Signal Loss Integrated circuits in the transmitter and receiver clean, buffer, and amplify the HDMI signal. This
 prevents signal loss and ensures a clear signal regardless of the length of the cable up to the maximum range.
- Bi-Directional IR –Send IR signals from the source to the monitor or from the monitor to the source for discrete
 operation of devices.
- Bi-Directional RS-232 –Send RS-232 commands from a control system to the display and back without extra cabling.
- Ethernet pass-through 100BaseT Ethernet pass-through to connect remote displays to local networks.
- Connect Multiple Units Repeat up to four sets to extend HDMI range up to 1300ft (400m).

Specifications:

Model		MVE-AH1H1-02ZQ	
Input video signal		3.3V	
Input DDC signal		5Vp-p (TTL)	
Maximum single link range		4Kx2K@30Hz	
Deep color		48-bit	
Video formats supported		High-speed HDMI with 3D, HDCP 1.2	
Audio formats supported		LPCM, Dolby-AC3, DTS 7.1, DSD	
Output video		HDMI	
Resolutions supported		4K/1080p/1080i/720p/576p/576i/480p/480i	
Range – 1080p	Cat6	Up to 330' (100m)	
	Cat5e	Úp to 295' (90m)	
Range – 4K	Cat6	Up to 230' (70m)	
Kaliye – 4K	Cat5e	Up to 196' (60m)	
Video amplifier bandwidth		10.2Gbps	
Video input connector		HDMI Type A 19-pin female	
Maximum input cable length		24AWG: 50' (15m); 26AWG: 32' (10m); 28AWG: 16' (5m)	
Cat5e/6 wiring standard		Т568-В	
IR pass-through		30~50kHz	
RS-232 pass-through		115,200 baud	
Ethernet pass-through		100BaseT	
Operating voltage		24VDC	
Power supply		1A@24VDC (1 adapter) (2.1mm plug)	
ESD protection (human body model)		±8kV (air-gap discharge), ±4kV (contact discharge)	
Current draw	Transmitter	150mA@24VDC	
	Receiver	250mA@24VDC	
Operating temperature		32°~104° F (0°~40° C)	
Operating humidity		20~90% RH (no condensation)	
Dimensions		3 ¹⁵ / ₁₆ "x3 ¹⁵ / ₁₆ "x1 ¹ / ₈ " (100x100x28mm)	
Weight		11.3-oz (300g) (each)	



Parts List:

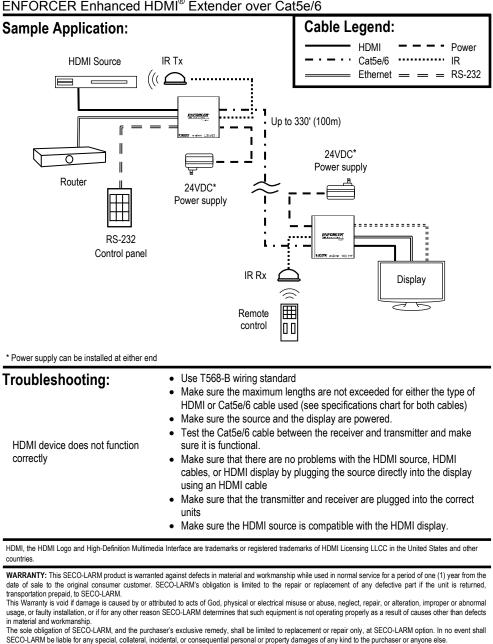
1x Transmitter	1x Receiver	1x Manual
2x IR Transmitters	2x IR Receivers	1x 24VDC Locking power adapter
2x 3-Pin RS-232 connectors	4x Mounting brackets	8x Mounting bracket screws

Installation:

- 1. Determine where the transmitter and receiver will be wired as well as how much Cat5e/6 cable will be necessary.
- 2. Connect the HDMI cable to both the transmitter and the source device.
- 3. Connect the HDMI cable to both the receiver and the display.
- 4. Connect the Cat5e/6 cable to both the receiver and transmitter units. **Note**: For best results, use Cat6 or better cable.
- 5. Connect the 24VDC adapter to either the transmitter or receiver.
- 6. Determine which device, if any, will be controlled by the remote control. Install the IR transmitter to the IR-TX port of the extender nearest the device to be controlled, pointing the IR transmitter at the device. Install the IR receiver to the IR-RX port of the other extender unit. Point the remote control at the IR receiver when in use.
- 7. Connect an RS-232 controller unit to the RS-232 terminal on the transmitter. Connect the receiver RS-232 terminal to the remote device to be controlled.
- 8. Connect the Ethernet port on the transmitter to the local area network or router. Connect the Ethernet port on the receiver to the remote device that requires internet.
- 9. Switch on the HDMI source and display to verify that the system is functioning properly.
- 10. If necessary, use the included brackets and screws to mount the extender to a wall or desk.

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ENFORCER Enhanced HDMI® Extender over Cat5e/6



NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.

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