



MVE-AH020Q

HDMI Extender Over Single Cat5e/6

Manual



- Extend HDMI over a single inexpensive Cat5e/6 cable.
- Supports resolution from 480i to 1080p with zero signal loss.
- Transmits up to 164' (50m) at 1080p over a Cat6 cable.
- Plug and play operation—comes as a complete set.

SLI® SECO-LARM®



NOTE: Model numbers that end with "Q" or products that have a round green "Q" sticker signify RoHS compliance.

Introduction:

The MVE-AH020Q extends the range of traditional HDMI cabling methods by using an active transmitter and receiver to send video and audio over a single Cat5e/6. HDMI formats as large as 1080p can be transmitted up to 164' (50m) between the two units with zero signal loss by using integrated circuits in the receiver and transmitter.

Features:

- **Flexibility** – Traditional HDMI cables present a number of challenges in long cable runs. HDMI cables are rigid in structure and fixed in length making them very difficult to use in some applications. By using Cat5e/6 to transmit HDMI signals, the length and route the wiring takes can now be determined on an application by application basis.
- **Signal Strength** – Traditional HDMI cables have limitations on the signal strength they can provide over long distances. Using an active transmitter and receiver, the MVE-AH020Q overcomes these limitations by providing a clearer signal farther than HDMI cable alone.
- **Distance** – The MVE-AH020Q is capable of providing a clear HDMI signal over much greater distances than HDMI cable alone. Using Cat6 cabling, a 1080p HDMI signal can be transmitted up to 164' (50m).
- **Formats Supported** – The MVE-AH020Q supports both progressive scan and interlaced formats.
- **Plug and Play** – The MVE-AH020Q comes as a complete set consisting of a transmitter and receiver. 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 to prevent signal loss and ensure a clear signal regardless.
- **DVI Support** – The MVE-AH020Q can be used with an HDMI to DVI adapter to support multiple components of a home theater system.

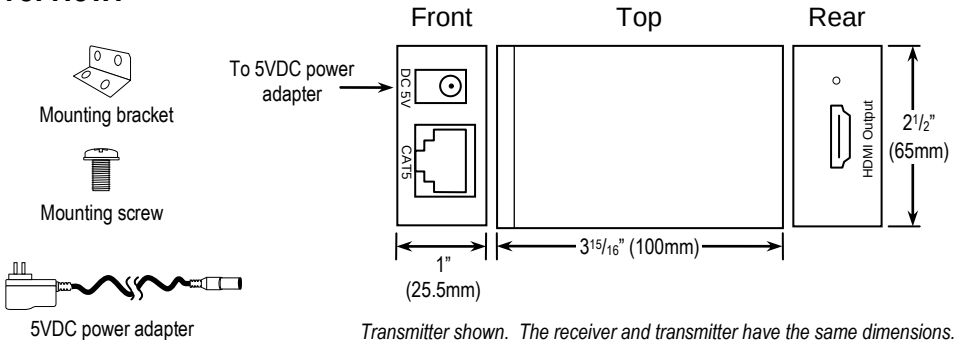
Specifications:

Input video signal		0.5~1 Vp-p
Maximum single link range		1920 x 1200, 1080p
Output video		HDMI 1.2a
Video formats supported		1080p/1080i/720p/576p/576i/480p/480i
Range	1080p	Cat5e: 98' (30m) / Cat6: 164' (50m)
	1080i, 720p	Cat5e: 164' (50m) / Cat6: 197' (60m)
	576p, 480p	Cat5e: 197' (60m) / Cat6: 213' (65m)
	576i, 480i	Cat5e: 213' (65m) / Cat6: 230' (70m)
Current draw	Transmitter	780mA@5VDC
	Receiver	109mA@5VDC
Video amplifier bandwidth		1.65Gbps/165MHz
Vertical frequency range		50/60 Hz
Operating temperature		32°~158° F (0°~70° C)
Operating humidity		10~85 % RH (no condensation)
Size		3 ¹⁵ / ₁₆ "x2 ¹ / ₂ "x1" (100x65x25.5 mm)
Weight		13.6-oz (385g)
Power supply		2A@5VDC (2 adapters included) (2.1mm plug)

Parts list:

1 x Transmitter (Sender)	2 x 5VDC power adapters	8 x Mounting screws
1 x Receiver	4 x Mounting brackets	1 x Manual

Overview:

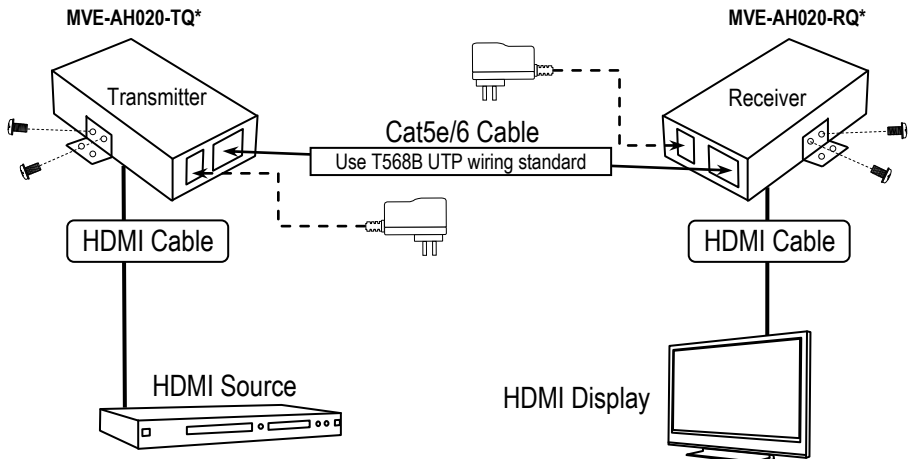


One (1) Cat5e/6 cable is required. Please use T568B wiring standard.
Two (2) HDMI cables are required.

Installation:

1. Determine the location where the MVE-AH020Q units will be wired as well as how much Cat5e/6 cable will be necessary.
2. Connect the transmitter to the HDMI output of the source device.
3. Connect the Cat5e/6 cable to both the receiver and transmitter units.
NOTE: For maximum range please use a Cat6 cable.
4. Connect the receiver to the HDMI input of the display or other device.
5. Connect one 5VDC adapter to the transmitter and another to the receiver.
6. If necessary, use the included mounting brackets and mounting screws to mount both the receiver and the transmitter to a wall or other surface.
7. Switch on the HDMI source and display, and verify that the system is functioning properly.

Sample Application:



*Transmitter (MVE-AH020-TQ) and receiver (MVE-AH020-RQ) are only sold as a pair.

Troubleshooting

HDMI device does not function correctly

- Make sure the extender is powered on both sides.
- Make sure the source and display are powered.
- Test the Cat5e/6 cable between the receiver and transmitter and make sure it is functional.
- Make sure that there are no problems with the HDMI source, HDMI cables, or HDMI display by plugging the source directly into the display using the HDMI cables.
- Make sure that the transmitter and receiver are plugged into the correct units.
- Make sure the HDMI source is compatible with the HDMI display.

Products Available from SECO-LARM:



Component Video over Cat5e/6



VGA over Cat5e/6



HDMI Repeater



HDMI Cables



Audio Baluns



HDMI Switcher

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