

## Troubleshooting Q & A

### HDMI-1-EM TOP VIEW



1. EQ Indicator  
LED ON: Auto EQ  
LED OFF: Manual EQ

### HDMI-1-EM REAR VIEW



1. EQ Adjustment
2. DC 5V 2A Power
3. EQ Indicator - ON: Auto EQ, OFF: Manual EQ
4. Link Indicator for Local Monitor Output
5. RJ45 for CATx Output to Receiver
6. Local HDMI Monitor Output
7. HDMI Input

#### There is no image on my monitor

This may be an EDID issue. Follow the EDID learning procedure described in this manual.

#### There is no image on my monitor.

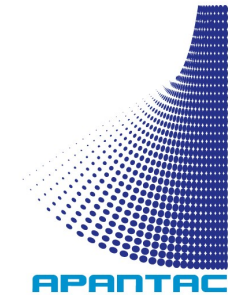
Check the following:

- Cable length
- Cable quality. Low skew FTP cables perform better than regular network cables.
- Slowly adjust the EQ knob until the image appears.

#### The output of display has noise or occasionally flashes.

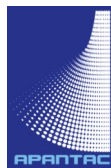
Check the following:

- Cable distance
- Cable quality
- Slowly adjust the EQ knob on the HDMI-1-R until the image appears. It is best to use a pattern generator instead of the source to perform this adjustment.
- Check for excessive RF interference in the room.



## HDMI-1-EM USER MANUAL

### HDMI CATx Extender with Local Monitor Out



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## Package Contents

- 1 x HDMI-1-EM
- User Manual
- Power Adapters (5V 2A)

## Features

- Extends 1080p signals up to 115 feet (35 meters) with a single CATx cable
- Supports HDMI 1.2 and 1.3a
- Local Monitor Output
- Plug and Play
- Magnetic mounting plate for easy installation

## Receivers

HDMI-1-R - long distance receiver - up to 115 ft (35 m)



HDMI-1-ERM - Extender / Receiver with local monitor output. Can also be used to increase the extension distance by another 55 ft (18 m)



HDMI-SR - short distance receiver - up to 35 ft (10 m)



## Installation

1. Turn off all devices.
2. Connect the monitor to the HDMI Local Monitor Port.
3. Plug in the power adapter.
4. The POWER indicator and LINK indicator will light up.
5. The ACTIVE indicator will light up when the extender receives a valid HDMI signal.
6. LINK OUT: This port is used to cascade more than one multi-port extender.

## ED Adjustment

This is used only when the input HDMI cable is long (more than 6 ft). In most cases the EQ Adjustment can be set to Auto-Mode by turning the dial completely counter clockwise. When <EQ> and <AUTO> LEDs will turn blue

## EDID Learning

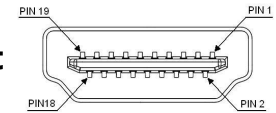
EDID mismatch is one of the most common problems in the display and extender industry. Learning the EDID on the HDMI-1-EM can easily solve this issue.

1. Turn on the display.
2. Connect the HDMI-1-EM's local monitor output to the display with an HDMI cable (do not connect the CATx cable). Apply power to the HDMI-1-EM.
3. The green LED will light for one second then turn off and the amber LED will remain flashing.
4. This means the EDID from the display is now stored in the HDMI-1-EM.

## Specifications

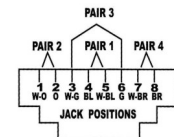
FEATURES/MODEL	HDMI-1-EM
Input	1 x HDMI A-Type Female
Output	1 x HDMI A-Type Female, 1 x RJ-45
Adjustment	Equalizer
Max Resolution	1080p 60Hz
Cable Distance	35m/115ft @ 1080p
Power Adapter	5V 2A DC
Dimension (mm)	62 W x 113 x D 29 H

## HDMI Pin Out



Pin #	Signal	Pin #	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5 Power
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

## CATx Wiring



Identification	Pin Assignment	Color Code
Pair 1	5	White-Blue
	4	Blue
Pair 2	1	White-Orange
	2	Orange
Pair 3	3	White-Green
	6	Green
Pair 4	7	White-Brown
	8	Brown