

**HDMI-1-E**

**HDMI-1-R**

**USER MANUAL**

**HDMI CATx**

**Extender / Receiver**

**Package Contents**

- 1 x HDMI-1-E or 1 x HDMI-1-R  
(Both of above when purchased in a set)
- User Manual (s)
- Power Supplies (5V 1A)  
(2 of above when purchased in a set)

**Features**

- Uses the latest HDBase-T technology
- Extends 1080p signals up to 330 feet (100 meters)  
With a single CATx cable
- Supports HDMI 1.4 with 3D function
- Supports HDMI 1.2 and 1.3a
- HDCP Compliant
- Supports 3D pass-through
- Supports CEC pass-through
- Supports RS-232 (Bi-directional transfer)
- Supports all frequency band IR control

**Specifications**

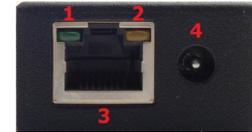
FEATURES/MODEL	HDBT-1-E	HDBT-1-R
HDMI In	1 x HDMI A-Type Female	None
HDMI Out		1 x HDMI A-Type Female
RJ-45	1	1
Max Resolution	1080p 60Hz	1080p 60Hz
Cable Distance	35m/115ft @ 1080p	35m/115ft @ 1080p
Power Adapter	5V 1A DC	5V 1A DC
Dimension (mm)	69 W x 39 x D 21 H	69 W x 39 x D 21 H

**HDMI-1-E FRONT VIEW**



1. HDMI Input from the Source

**HDMI-1-E REAR VIEW**



1. Link Activity Status (Green)
2. Local Power Status (Amber)
3. RJ45 for CATx Output to Receiver
4. 5V 1A Power

**HDMI-1-R FRONT VIEW**



1. Cable Equalization Adjustment
2. HDMI Output to the Monitor



1. Link Activity Status (Green)
2. Local Power Status (Amber)
3. RJ45 for CATx Output to Receiver
4. 5V 1A Power

# Installation

- Turn off all devices
- Connect the HDMI cable between the source and the <HDMI IN> port of the HDMI-1-E
- Turn the EQ adjustment knob on the HDMI-1-R all the way counter clock wise. This will put the EQ in the "Auto Position"
- Connect the HDMI cable between the HDMI-1-R between the monitor and the <HDMI OUT> port of the HDMI-1-R
- Connect the CATx cable between the HDMI-1-E and HDMI-1-R's RJ45 ports
- Connect the Power

## What do the LED Lights Mean?

### HDMI-1-E

- The amber LED (Local Power Status) on the HDMI-1-E will come on, once the power is applied to the unit
- Both the green and amber LEDs will come on, when the power and the source are plugged in

### HDMI-1-R

- When starting for the first time, make sure the EQ knob is turn all the way counter clock wise. This puts the unit to "AUTO" EQ
- The amber LED will be flashing once the power is applied to the unit
- Both the green and amber LEDs will be lit and steady, when the power, HDMI monitor cable and the CATx are plugged in

## EQ ADJUSTMENT

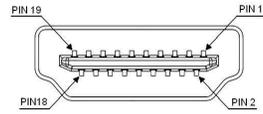
- When the amber LED on the HDMI-1-R is lit and steady, this means the unit is in AUTO EQ mode. Once the amber LED is off, the unit is in manual EQ mode.
- Make sure you adjustment the EQ slowly, the adjustment are very sensitive

# EDID Learning

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

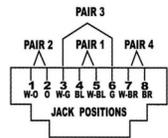
1. Turn on the display
2. Connect the HDMI-1-E to the display with a HDMI cable (do not connect the CATx cable)
3. Apply power to the HDMI-1-E
4. The green LED will lit for one second, then off, and the amber LED will remain flashing
5. This means the EDID from the display is now stored in the HDMI-1-E

## 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

# Trouble Shooting Q/A

- Q: There is no image on my Monitor  
 A: This may be an EDID issue. Follow the EDID learning procedure described earlier
- Q: There is no image on my Monitor  
 A: Check the following
- Cable Length
  - The quality of the cable, low skew FTP cables performs better than regular network cables
  - Slowly adjust the EQ knob until the image appears
- Q: The output of display have noise or occasionally flashes
- Check the cable distance
  - Check cable quality
  - Slowly adjust the EQ knob 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

***If the flashing persists, you may want to consider using the Apantac HD Base T products (HDBT-SET-1) or the Apantac DVI over fiber products (DVI-xx-SC) to resolve this issue***



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 7556 SW BRIDGEPORT ROAD  
 PORTLAND, OR 97224, USA  
 PHONE +1 503 968 3000, FAX +1 503 389 7921

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