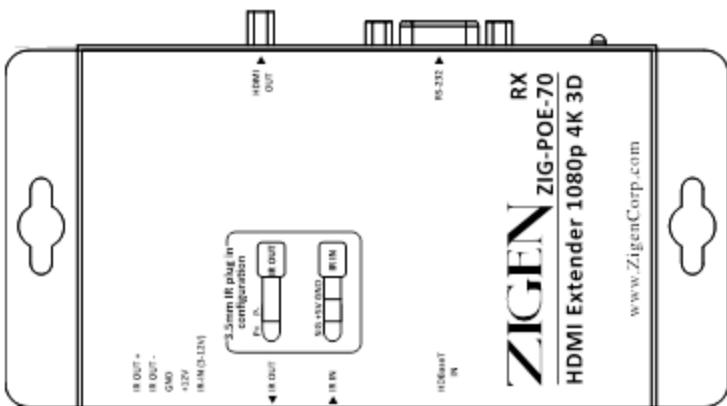# ZIGEN ZIG-POE-70 HDMI

User Manual

ZIG-POE-70 TRANSMITTER

ZIG-POE-70 RECEIVE

Package Contents-

- 1 x Transmitter
- 1 x Receiver
- 1 x User manual
- 1 x Power adapter DC 48V with lock
- 1 x IR receiver
- 4 x Screws
- 8 x Foot pads
- 2 x Captive screw connectors
- 2 x Phoenix connectors
- IR IN Cable

Features

- Extend HDMI signals up to 70 meters/228 feet by using Cat-5e/6/7
- Supports HDMI 1.4 with 3D
- Supports HDMI 1.2 and 1.3
- HDCP compliant
- Supports 3D pass-through
- Supports CEC pass-through
- Supports RS-232 (Bi-direction transfer)
- Supports all frequency band IR control (Bi-direction transfer)
- Supports 12V or 5V IR Receiver/Emitter
- Full HD support: 1080P@60Hz, 3D and 4Kx2K
- HD-BaseT technology
- Uses Cat-5e/6/7 cable for easy installation

Specifications

Function	Transmitter	Receiver
HDMI IN	1 x HDMI type A	None
HDMI OUT	None	1 x HDMI type A
RJ-45 Connector	1	1
IR Terminal Block 5 pin	1	1
IR OUT	3.5mm Stereo jack x 1	3.5mm Stereo jack x 1
IR IN	3.5mm Stereo jack x 1	3.5mm stereo jack x 1
Max Resolution	4K UHD 2160P60 4:2:0 (HDMI 1.4)	
Cable Distance	70 meter	
Power Adapter	DC 48V with lock	
Housing	Metal	
Weight	296g .65 lbs.	303g .67 lbs.
Dimensions LxWxH	150x74x24mm 5.9x2.9x.95 Inches	

TRANSMITTER REAR VIEW

1. POWER LED
2. LINK LED
3. RS-232
4. HDMI IN

TRANSMITTER/RECEIVER FRONT VIEW

1. IR 5-pin Terminal Block
2. IR OUT
3. IR IN
4. HDbaseT OUT Link (TX)
   HDbaseT IN Link (RX)
5. TX ONLY POWER JACK 48V DC

RECEIVER REAR VIEW

1. POWER LED
2. LINK LED
3. RS-232
4. HDMI OUT

Installation

1. Be sure to turn OFF the HD source and HDTV.
2. Connect the HDMI extension cable between HD Source and HDMI In port of the Transmitter.
3. Connect the HDMI extension cable between the HDTV and the HDMI Out port of the Receiver.
4. Connect Cat 5e/6/7 cable between the Transmitter Link port and the Receiver Link port of the Receiver.
5. Connect the Power adapter to the Receiver and power up the extender
6. Turn on the HD source and HDTV.

IR Receiver Cable Directions:

Plug the IR receiver into the ZIG-POE-70-RX "IR IN" port and place the IR receiver so you can point to it easily with your IR remote controller.
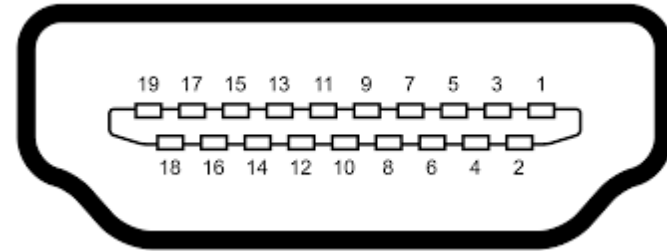
IR Emitter Directions:

Plug any brand IR emitter into the ZIG-POE-70-TX "IR OUT" port and place the IR sensor directly on the IR window on the front panel of the device you intend to control.
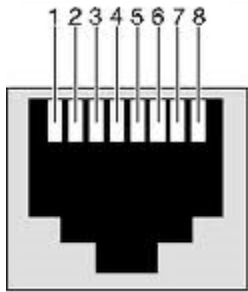
Additional Options

1. IR Receiver Cable

HDMI Connector Signal 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 (HPD)
10	TMDS Clock +		

RJ-45 Wiring Information & Coding

Looking into connector

Conductor Identification	RJ-45 Plug Pin Assignment	Color Code for Conductor
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

 Certified extender

3 Year Limited Warranty

Trademarks:
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ONE-TO-ONE SYSTEM CONNECTION EXAMPLE

HDBaseT Transmitter

IR   IR   Link   48V

RS-232   HDMI In

Source

230' CAT5e/CAT6/CAT6a/CAT7

ZIG-POE-70 - HDMI over Single UTP/STP – with IR, RS-232, POE. Up to 4K UHD.

HDBaseT Receiver

IR   IR   Link

RS-232   HDMI Out

Display (Sink)