

# ZIGEN

## ZIG-HAVEX HDMI EXTENDER

USER MANUAL

V1.0

### Transmitter Receiver



#### Package Contents-

- 1x ZIG-HAVEX Transmitter Unit
- 1x ZIG-HAVEX Receiver Unit
- 1 user manual
- 1x Power adapter DC 48V with lock
- 1x IR Receiver Cable
- 4x screws
- 8x foot pads

#### Features

- ZIG-HAVEX is a transmitter / receiver extender kit for long distance transmission of HDMI video, embedded audio, 4-port POE Ethernet switch, back channel analogue or digital audio plus bi-directional control signals over a single CAT – 5 /6 /7 type cables.
- Supports HDMI 1.4 with 3D function
- Supports HDMI 1.2 and 1.3a
- HDCP Compliant
- Supports POE

- Supports 10/100 base-T Ethernet switcher (Compliant IEEE802.3, IEEE802.3u, IEEE802.3x)
- 8 standard Ethernet port (with switching capabilities on each unit.
- Supports IR/RS-232/Ethernet extension function.
- IR extension function(Supports all frequency band IR control)
- Supports 3D pass-through
- Supports CEC pass-through
- Support RS-232(Bi-direction transfer)
- Supports HDTV up to 1080p/60 4K x 2K
- HD-baseT technology
- Extend HDMI signal up to 100 meter 328 feet by using a single cat-6/7 cable. You may also use a cat-5 cable to extend up to 80 meters 260 feet.

#### Specifications

Function	TRANSMITTER	RECEIVER
HDMI In Connector	HDMI A-Type Female x 1	None
HDMI Out Connector		HDMI A-Type Female x 1
RJ-45 Connector		1
RJ-45 Connector (with LED)		4
RS-232 Connector		1
Audio Input	None	1 Stereo RCA(L/R) 1 RCA(Coaxial) 1 Digit Optical TOSlink
Audio Output	1 set RCA(L/R) 1 RCA(Coaxial) 1 Digit Optical TOSlink	None
IR OUT	3.5ψ Stereo Jack x 1	3.5ψ Stereo Jack x 1
IR IN	3.5ψ Stereo Jack x 1	None
IR1 IN	None	Internal IR receiver
IR2 IN	None	3.5ψ Stereo Jack x 1
Max. Resolution	1080P 60Hz / 4K x 2K	
Cable Distance	100 m (Max.)	
Power Adapter (Min.)	DC 48V with lock	None
Housing	Metal	
Weight	690g	695 g
Dimensions (LxWxH)	245x120x25 mm	

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#### LOCAL TOP VIEW



- 1~4 port ETHERNET LINK/SPEED/FULL indicators.  
LINK ( Flash : Activity )  
SPEED ( ON : 100M, OFF : 10M )  
FULL ( ON : Full duplex ,OFF : Half duplex ,  
Flash : Collision)
- POWER LED
- HDCP LED
- LINK LED
- MODE LED

#### LOCAL FRONT VIEW



- Power jack (48V DC)
- AUDIO OUT(R/L)
- AUDIO OUT(COAXIAL)
- AUDIO OUT(OPTICAL)
- AUDIO SELECT SWITCH  
000 : L/R  
001: Coaxial

- 010: Optical
- 6. HDMI IN
- 7. RS-232
- 8. IR IN
- 9. IR OUT
- 10. IR Connector

### LOCAL REAR VIEW



- 1. ETHERNET(1~4 port RJ-45 Connector with LED)
- 2. LINK (RJ-45 Connector)

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### REMOTE TOP VIEW



- 1. 1~4 port ETHERNET LINK/SPEED/FULL indicators.  
LINK ( Flash : Activity )  
SPEED ( ON : 100M, OFF : 10M )  
FULL ( ON : Full duplex ,OFF : Half duplex ,  
Flash : Collision)
- 2. POWER LED
- 3. HDCP LED

- 4. LINK LED
  - 5. MODE LED
  - 6. IR1 IN ( Internal IR receiver )
- ### REMOTE FRONT VIEW



- 1. AUDIO IN(R/L)
- 2. AUDIO IN(COAXIAL)
- 3. AUDIO IN(OPTICAL)
- 4. AUDIO SELECT SWITCH  
000 : L/R  
001: Coaxial  
010: Optical
- 5. HDMI OUT
- 6. RS-232
- 7. IR OUT
- 8. IR2 IN
- 9. IR Connector

### REMOTE REAR VIEW



- 1. ETHERNET(1~4 port RJ-45 Connector with LED)
- 2. LINK (RJ-45 Connector)

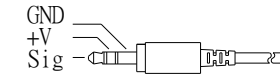
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## Installation

1. Be sure to turn OFF your HD source and HDTV.
2. Connect the HDMI extension cable between HD source and the "HDMI IN" port of Transmitter.
3. Connect the HDMI extension cable between the HDTV and the "HDMI OUT" port of Receiver.
4. Connect CAT.5 cables between the Transmitter "LINK" port and the Receiver "LINK" port of extender.
5. Connect the power cord and power up the extender.
6. Turn on your HD source and HDTV.

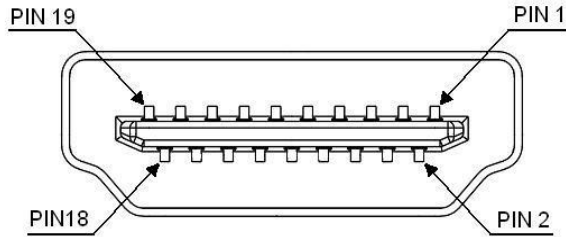
## IR Receiver

Pin configuration for 3.5mm IN terminal



**DO NOT PLUG MONO TYPE IR EMITTER INTO "IR-IN"**  
IR-in is design to be used with IR receivers.

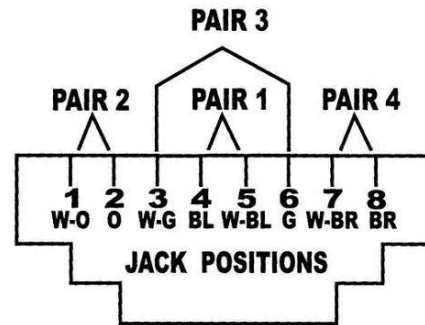
### Technical Specifications Output Signal



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+		

### Wiring Information & Coding

Conductor Identification	RJ45 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



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