



Zenty | Professional A/V Solution Provider

User Manual [v1.0]



4K 60Hz HDMI over Ethernet Extender 394ft. | 492ft.

ZT-108 | ZT-EX1504K



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1. Introduction

The Zenty ZT-EX1504K HDMI over Ethernet extender can extend a 4K 60Hz signal up to 492ft. via a single CAT6/7 cable. The transmitter also features a local HDMI output for splitting your source signal locally and extending an output to a remote display via the receiver. Power over cable (PoC) function allows users to power either the transmitter or the receiver, resulting in less cable clutter. The extender also passes EDID information for maximum compatibility between the connected source and display. Also features HDR | HDR10 | Dolby Vision | Dolby Digital+ | DTS-HD Master & Dolby TrueHD.

2. Features

- HDMI 2.0 | HDCP 2.2, DVI 1.0 compliant
- Transmit 4K 60Hz up to 394ft. over single CAT6/7 cable
- Transmit 1080P 60Hz up to 492ft. over single CAT6/7 cable
- 18Gbps video bandwidth
- HDMI loop-out on the transmitter
- Sends de-embedded audio signal to analog stereo output on receiver
- Bi-directional IR, RS232, and CEC pass-through
- HDR | HDR10 | Dolby Vision | HLG functions supported

3. Package Contents

- (1) x Transmitter
- (1) x Receiver
- (1) x IR Blaster Cable
- (1) x IR Receiver Cable
- (4) x Mounting Ears
- (2) x 3-Pin Phoenix Connectors
- (1) x 24V/1A Locking Power Adapter
- (1) x User Manual

4. Specifications

Technical	
HDCP Compliance	1.4 2.2
Distance	1080P 60Hz: 120m / 492ft. 4K 60Hz: 120m / 394ft.
Video Bandwidth	18Gbps
Video Resolution	Up to 4K 60Hz 4:4:4
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit (1080P 60Hz, 4K 30Hz, 4K 60Hz YCbCr 4:2:2/4:2:0) 8-bit (4K 60Hz 4:4:4)
HDMI Audio Formats	LPCM 2.0/2.1/5.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital+, DTS-ES, DTS HD Master. DTS HD-HRA, DTS-X
L/R Audio Formats	PCM 2.0
ESD Protection	Human body model - +-8kV (air-gap discharge) & +- 4kV (Contact discharge)

Connections	
Transmitter	<p>Input:</p> <p>1 x HDMI Type A [19-pin female]</p> <p>Outputs:</p> <p>1 x HDMI Type A [19-pin female]</p> <p>1 x HDBT Out [RJ45]</p>

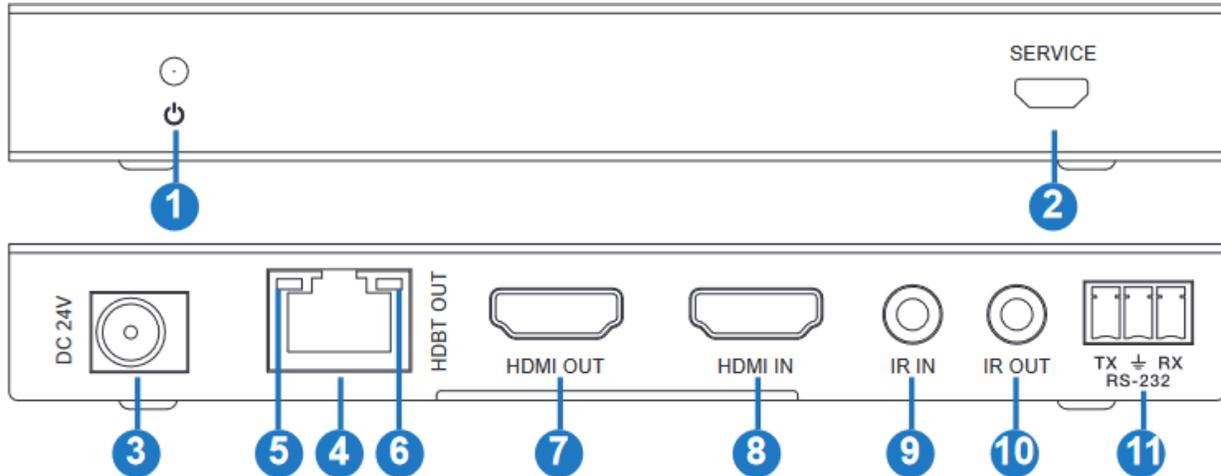
	<p>Control:</p> <p>1 x IR In [3.5mm Stereo Mini-jack]</p> <p>1 x IR Out [3.5mm Stereo Mini-jack]</p> <p>1 x RS232 [Phoenix jack]</p> <p>1 x Service [Mini-USB, Update port]</p>
Receiver	<p>Input:</p> <p>1 x HDBT In [RJ45]</p> <p>Outputs:</p> <p>1 x HDMI Type A [19-pin female]</p> <p>1 x Audio Out [3.5mm Stereo Mini-jack]</p> <p>Control:</p> <p>1 x IR In [3.5mm Stereo Mini-jack]</p> <p>1 x IR Out [3.5mm Stereo Mini-jack]</p> <p>1 x RS232 [Phoenix jack]</p> <p>1 x Service [Mini-USB, Update port]</p>

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	140mm [W] x 65mm [D] x 18mm [H]
Weight	Transmitter: 160g Receiver: 155g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (Locking connector)
Power Consumption	9.36W
Operating Temperature	32°F ~ 104°F 0°C ~ 40°C

Storage Temperature	-4°F ~ 140°F -20°C ~ 60°C
Relative Humidity	20 – 90% RH (No condensation)

5. Panel Description

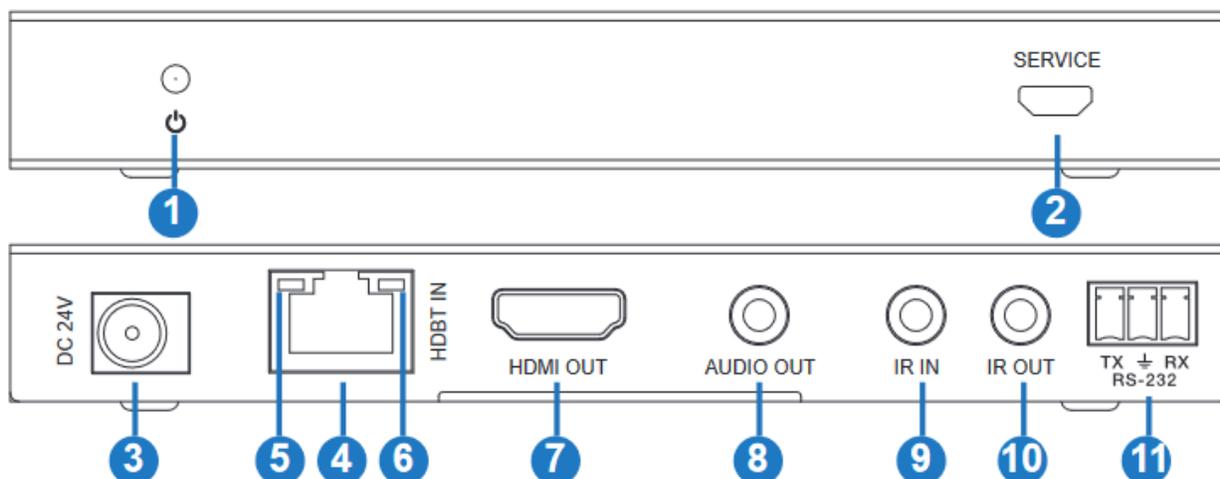
Transmitter



No.	Name	Function Description
1	Power LED	Red LED indicates that the transmitter is powered on.
2	SERVICE port	Firmware update port.
3	DC 24V	DC 24V/1A power supply input port. <i>Note that the extender supports PoC function, it means that either transmitter or receiver is powered on by 24V/1A power adapter, the other one doesn't need power supply.</i>
4	HDBT OUT	RJ45 connector for connecting the HDBT IN port of receiver with a CAT 5e/6 cable.
5	Connection Signal Indicator lamp	<ul style="list-style-type: none"> ▪ Illuminating: Transmitter and Receiver are in good connection status. ▪ Flashing: Transmitter and Receiver are in poor connection status. ▪ Dark: Transmitter and Receiver are not connected.

6	Data Signal Indicator lamp	<ul style="list-style-type: none"> ▪ Illuminating: HDMI signal with HDCP. ▪ Flashing: HDMI signal without HDCP. ▪ Dark: No HDMI signal.
7	HDMI OUT	HDMI loop output for display.
8	HDMI IN	HDMI source input.
9	IR IN	IR input port for receiving the signal of IR remote.
10	IR OUT	IR output port for control of source device. This IR output signal is from the IR IN port of receiver.
11	RS-232	3-pin Phoenix connector for RS-232 command transmission. The RS-232 command will pass-through from transmitter to receiver or from receiver to transmitter.

Receiver



No.	Name	Function Description
1	Power LED	Red LED indicates that the receiver is powered on.
2	SERVICE port	Firmware update port.
3	DC 24V	DC 24V/1A power supply input port. <i>Note that the extender supports PoC function, it means that either transmitter or receiver is powered on by 24V/1A power adapter, the other one doesn't need power supply.</i>

4	HDBT IN	RJ45 connector for connecting the HDBT OUT port of transmitter with a CAT 5e/6 cable.
5	Connection Signal Indicator lamp	<ul style="list-style-type: none"> ▪ Illuminating: Transmitter and Receiver are in good connection status. ▪ Flashing: Transmitter and Receiver are in poor connection status. ▪ Dark: Transmitter and Receiver are not connected.
6	Data Signal Indicator	<ul style="list-style-type: none"> ▪ Illuminating: HDMI signal with HDCP. ▪ Flashing: HDMI signal without HDCP. ▪ Dark: No HDMI signal.
7	HDMI OUT	HDMI output for display.
8	AUDIO OUT	3.5mm stereo connector for analog audio output.
9	IR IN	IR input port for receiving the signal of IR remote.
10	IR OUT	IR output port for control of display device. This IR output signal is from the IR IN port of transmitter.
11	RS-232	3-pin Phoenix connector for RS-232 command transmission. The RS-232 command will pass-through from transmitter to receiver or from receiver to transmitter.

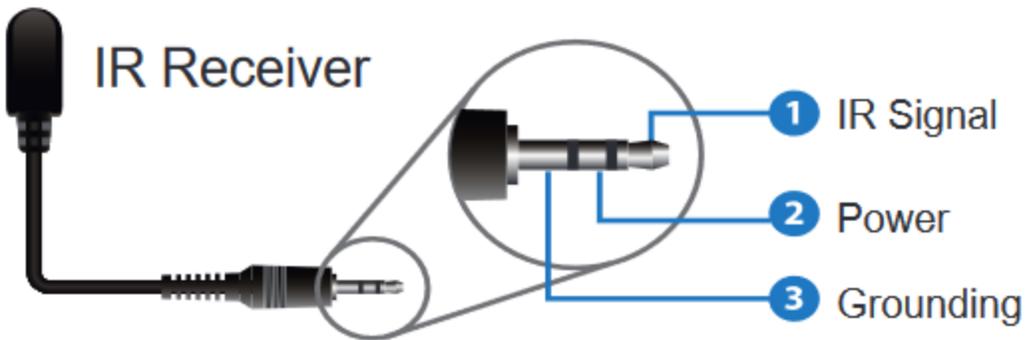
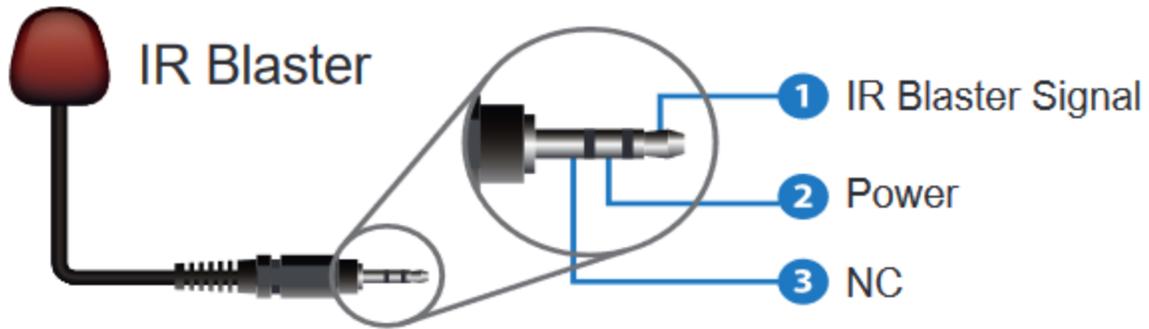
6. IR Pin Diagram



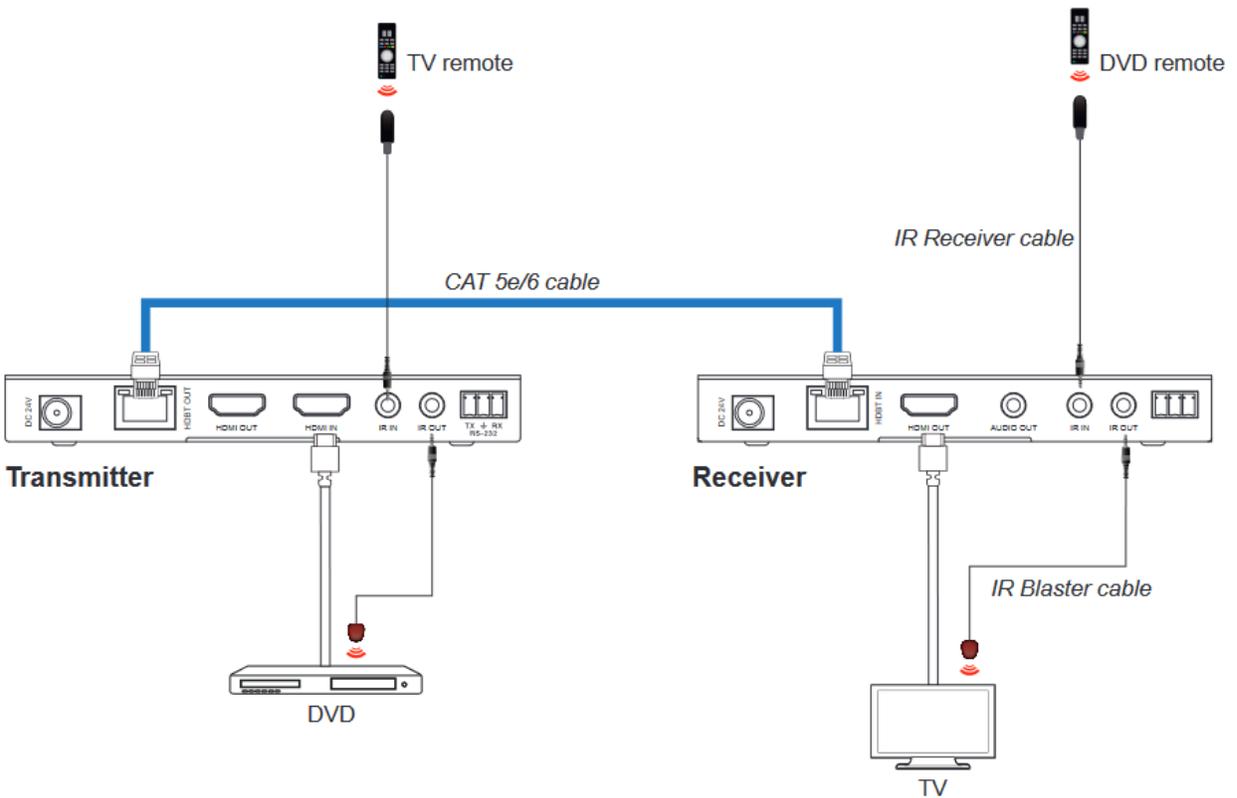
IR RECEIVER



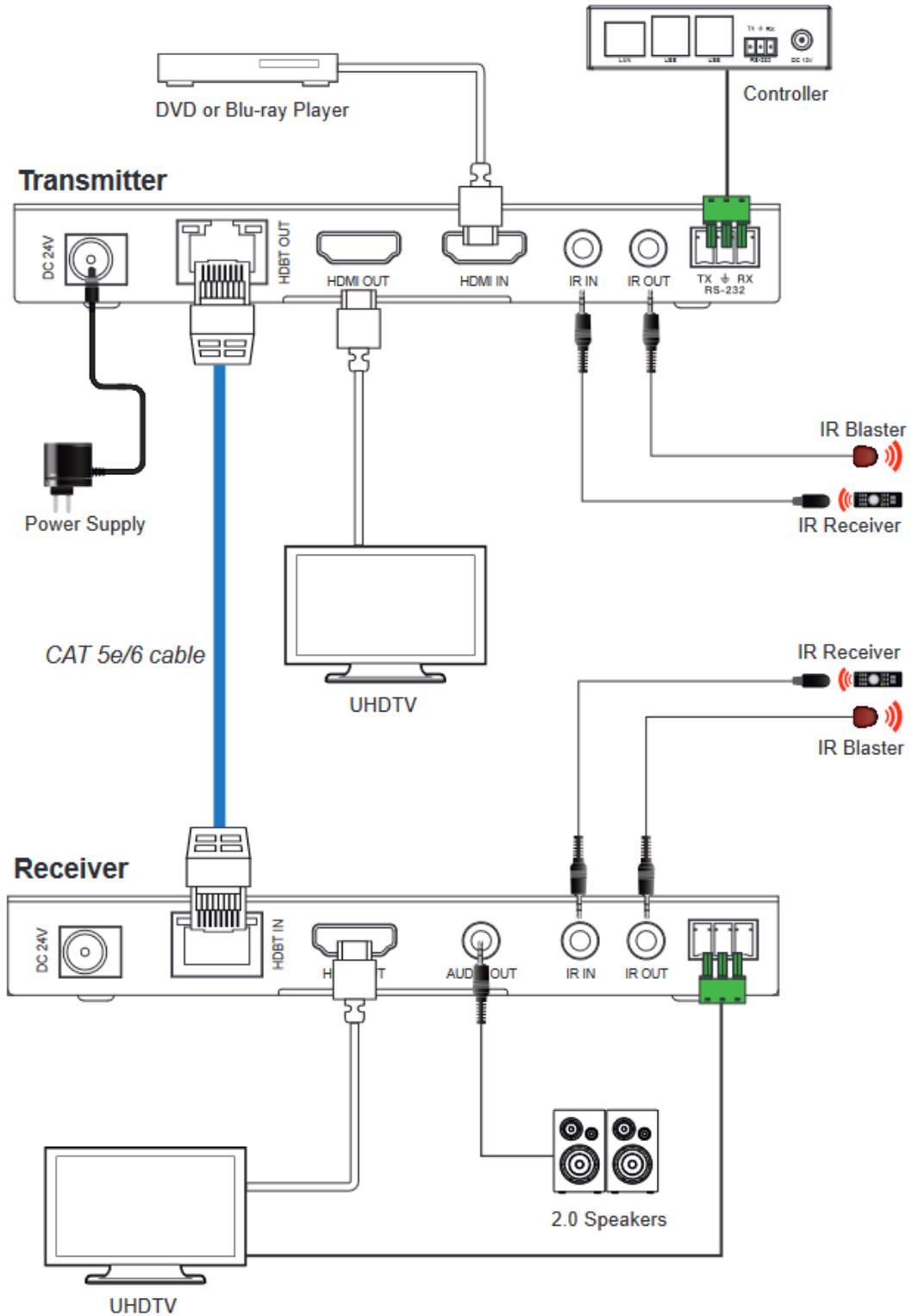
IR BLASTER



Bi-directional IR control system diagram:



7. Typical Application



8. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

9. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

10. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

11. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER “LIMITED WARRANTY COVERAGE”. THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



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