ZENTY

Zenty | Professional A/V Solution Provider

User Manual [V1.0]

1080P 60Hz HDMI over Ethernet Extender 492ft.

ZT-107 | ZT-EX150

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

RoHS compliant

CE FC

Table of Contents

1. Introduction

The Zenty ZT-EX150 HDMI over Ethernet extender can transmitter a full 1080P 60Hz signal up to 492ft. using the latest HDBaseT transmission protocol. This extender features bi-directional power over cable (PoC), and only requires power to be connected to either the receiver or the transmitter, allowing for a clean installation. Using EDID pass-through, the extender will automatically detect which resolutions and audio formats are compatible with the connected display, and set those options to the highest standard available. Also features CEC commands, allowing source and display devices, that support CEC, to communicate with each other via the extender, RS232 commands for control, and bi-directional IR function.

2. Features

- 492ft. transmission distance over single CAT6 cable
- HDMI 1.4 | HDCP 1.4 compliant
- Video resolution up to 1080P 60Hz (YUV 4:4:4)
- HDMI High bit-rate (HBR) audio pass-through
- Power over cable (PoC) function; either the transmitter OR the receiver can be powered via one 24V 1A included power supply
- Bi-directional IR, bi-directional RS232, CEC

3. Specifications

Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
Video Bandwidth	225MHz
Video Resolution	Up to 1080P 60Hz YUV 4:4:4, RGB 4:4:4
Color Space	RGB, YUV 4:4:4, YUV 4:2:2
Color Depth	8-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X

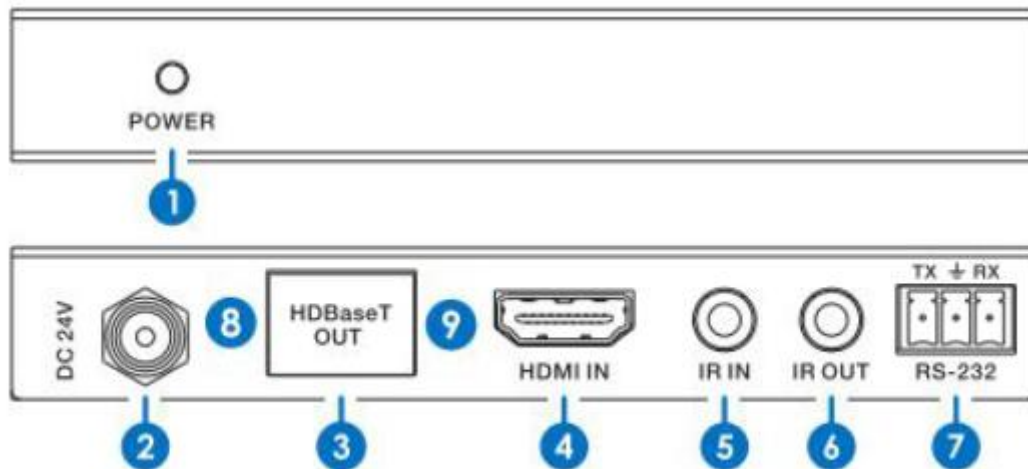| ESD Protection	Human body model - +-8kV (air-gap discharge) & +-4kV (contact discharge)

Connections	
Inputs	Transmitter: 1 x HDMI Type A [19-pin female] | 1 x IR Input [3.5mm Stereo Mini-jack] | 1 x RS232 [Phoenix jack] Receiver: 1 x HDBaseT In [RJ45] | 1 x IR Input [3.5mm Stereo Mini-jack], 1 x RS232 [Phoenix jack]
Outputs	Transmitter: 1 x HDBaseT Out [RJ45] | 1 x IR Output [3.5mm Stereo Mini-jack] Receiver: 1 x HDMI Type A [19-pin female] | 1 x IR Output [3.5mm Stereo Mini-jack]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	115mm [W] x 64.7mm [D] x 17mm [H]
Weight	406g
Power Supply	Input AC100 – 240V 50/60Hz Output: DC 5V/1A (US/EU Standards, CE/FCC/UL certified)

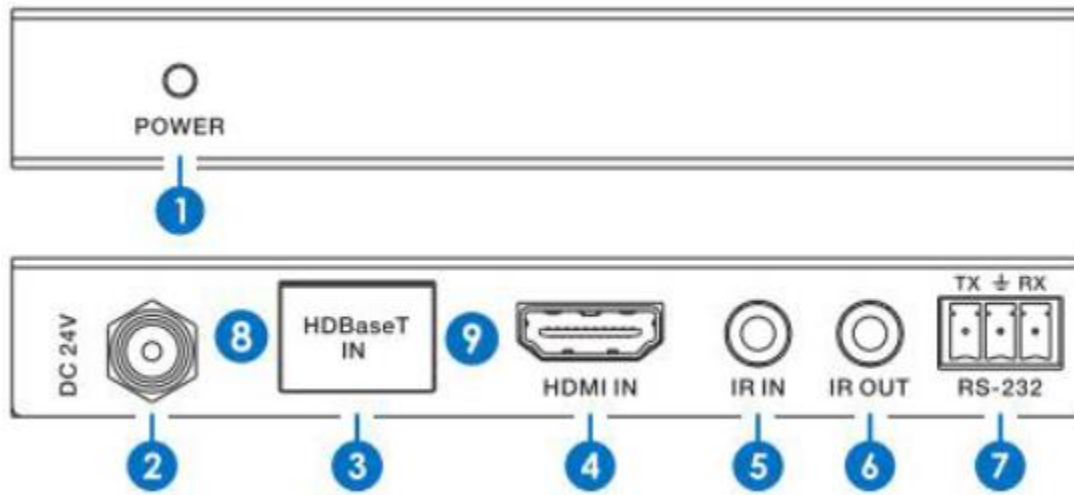| Power Consumption	5.76W (Max)
Operation Temperature	32°F – 104°F | -20°C – 60°C
Storage Temperature	-4°F – 140°F | -20°C – 60°C
Relative Humidity	20 – 90% RH (No Condensation)

4. Panel Description

Transmitter

1. Power: System power indicator

2. DC 24V: Connect 24V/1A adapter to AC wall outlet for power supply

3. HDBaseT Out: Standard HDBaseT output port. Connect HDBaseT receiver with a UTP cable following the standard of direct interconnection method

4. HDMI In: Connect to HDMI source device, such as Blu-ray or PS5

5. IR In: Channel 2 IR receiver. Connect to an IR receiver cable

6. IR Out: Channel 1 IR transmitter. Connect to an IR transmitter cable

7. RS-232: Phoenix jack provides serial port control from transmitter to receiver

8. Connection signal indicator light:

    a. Illuminating: The transmitter and receiver are in a good connection status

b. Flashing: The transmitter and receiver are in poor connection status

c. No light: The transmitter and receiver are not connected

9. Data signal indicator light:

a. Illuminating: HDMI signal with HDCP

b. Flashing: HDMI signal without HDCP

c. No light: No HDMI signal
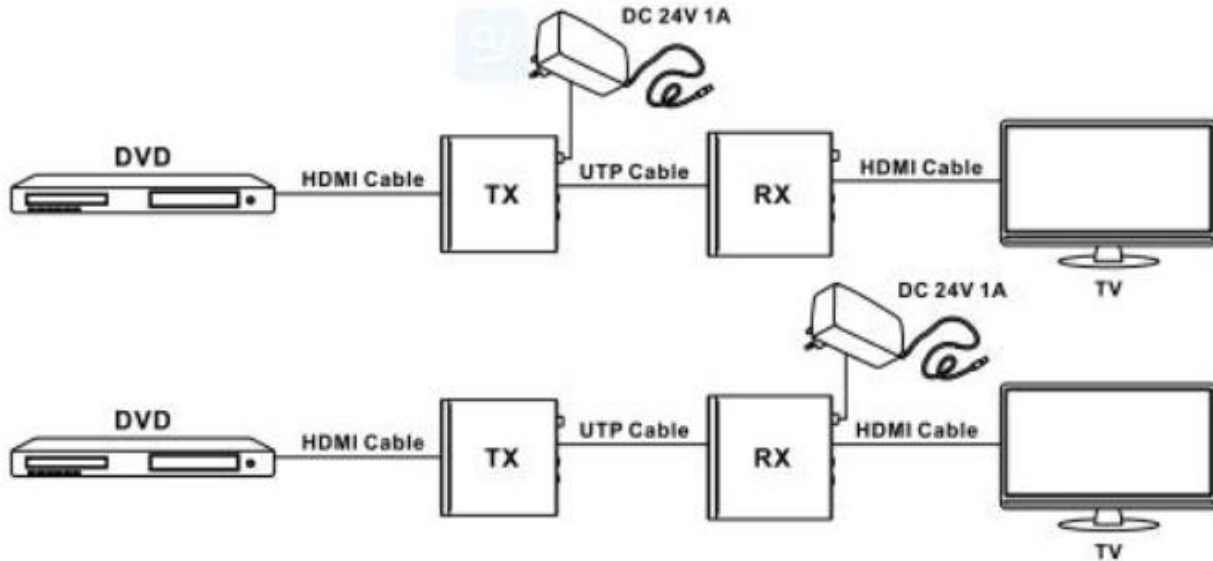
Receiver

1. Power: System power indicator

2. DC 24V: Connect 24V/1A adapter to AC wall outlet for power supply

3. HDBaseT In: Standard HDBaseT input port. Connect HDBaseT transmitter with a UTP cable

4. HDMI Out: Connect to an HD display via HDMI

5. IR In: Channel 1 IR receiver. Connect to an IR receiver cable

6. IR Out: Channel 2 IR transmitter. Connect to an IR emitter cable

7. RS-232: Phoenix jack provides serial port control from transmitter to receiver

8. Connection signal indicator light:

a. Illuminating: The transmitter and receiver are in a good connection status

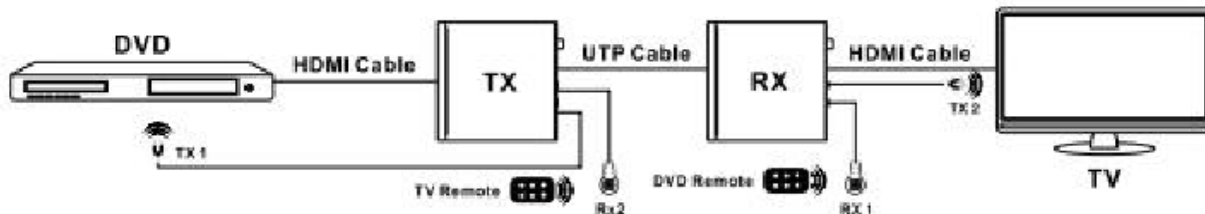b. Flashing: The transmitter and receiver are in poor connection status

    c.   No light: The transmitter and receiver are not connected

9. Data signal indicator light:

    a.   Illuminating: HDMI signal with HDCP

    b.   Flashing: HDMI signal without HDCP

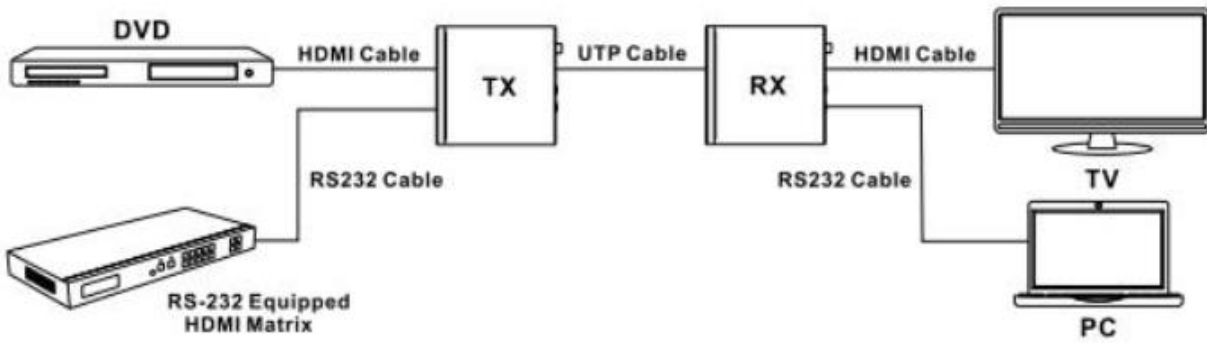   c.   No light: No HDMI signal

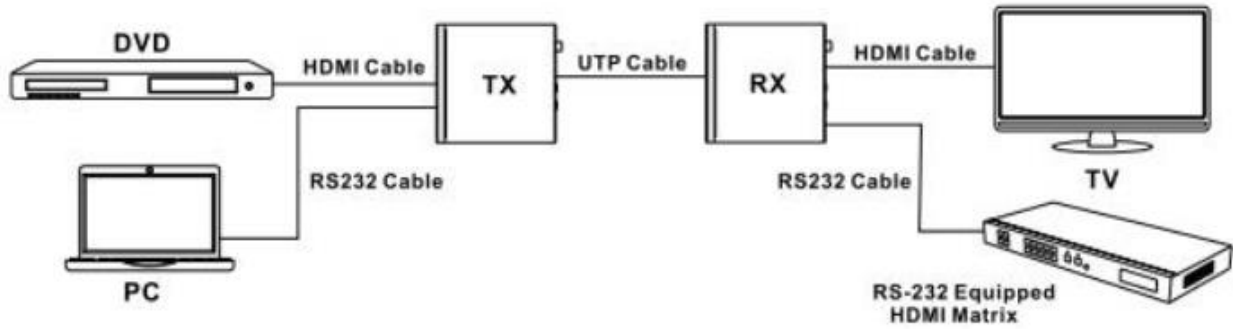# 5. Typical Applications

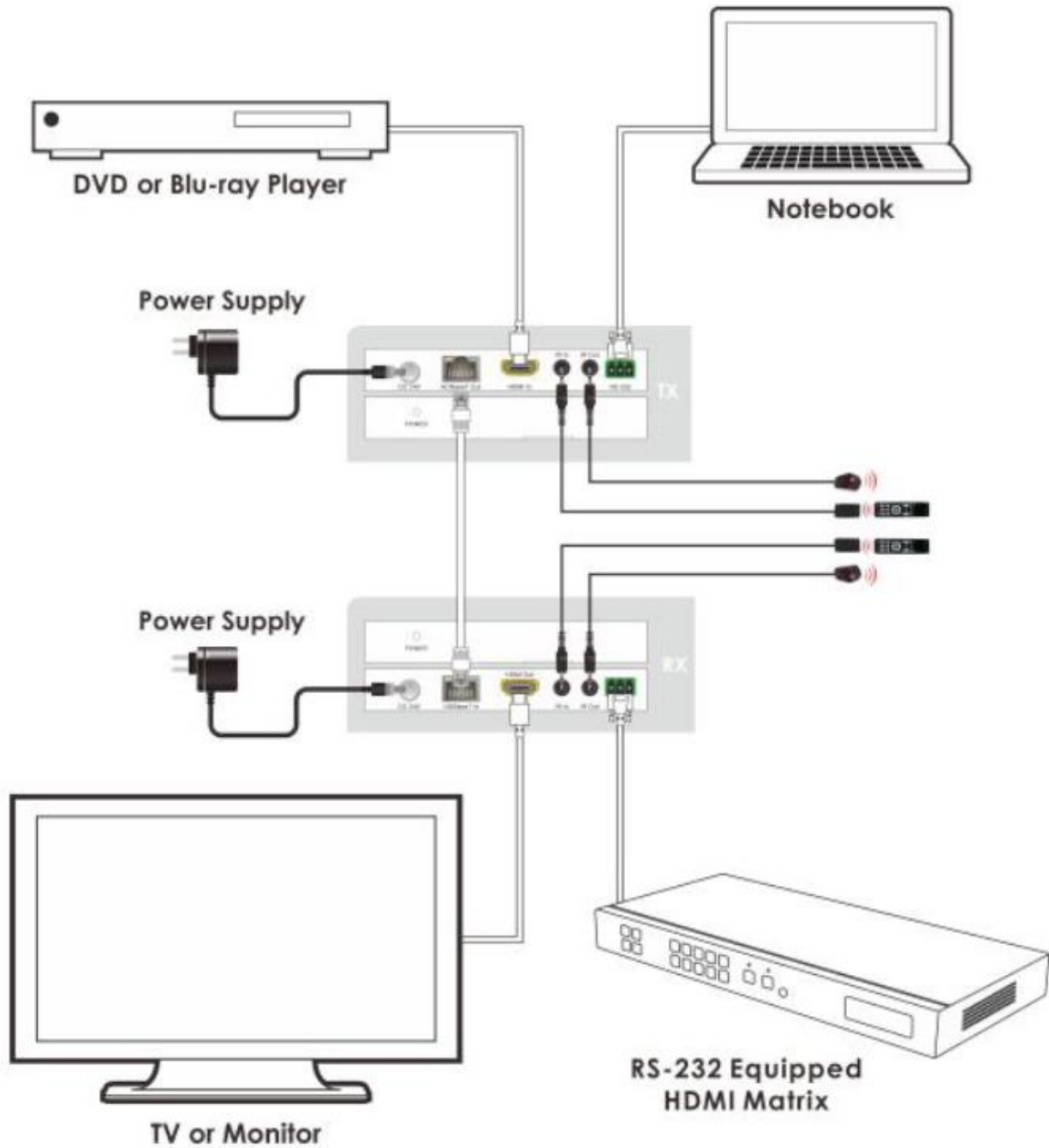## 5.1 Power over Cable (PoC) Application

5.2 Bi-directional IR Control Application

5.3 Bi-directional RS232 Control Application

5.4 Application Example

6. Maintenance

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

7. Warranty

If your product does not work properly because of a defect in materials of 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.

8. 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.

9. 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 CONSEQUENTAIL 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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