



**Zenty | Professional A/V Solution Provider**

## User Manual [v1.0]



**4K 60Hz HDBaseT Extender w/ Dual Outputs 130ft.**

**ZT-113 | ZT-EXB40**



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## 1. Introduction

This Model allows HDMI signals to be transmitted over a Single CAT5e/6 cable. This solution has the added features of RS232 and 2-way IR control functionality over the same CAT5e/6 cable. It can extend 4K@60Hz HDR 10 over a HDBaseT link and up to 130ft. / 40m. The slimmest HDBaseT design, making it perfect to mount behind ultra-thin TVs.

## 2. Applications

- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

## 3. Package Contents

- (1) x Transmitter and Receiver
- (1) Operating instructions
- (1) x 24V1A DC power supply
- (1) x IR TX unit
- (1) x IR RX unit
- (2) x Phoenix plugs for RS232 cable termination

## 4. System Requirements

Input HDMI source equipment such as DVD/Blu-ray player and HDMI equipped output display (TV or monitor).

## 5. Features

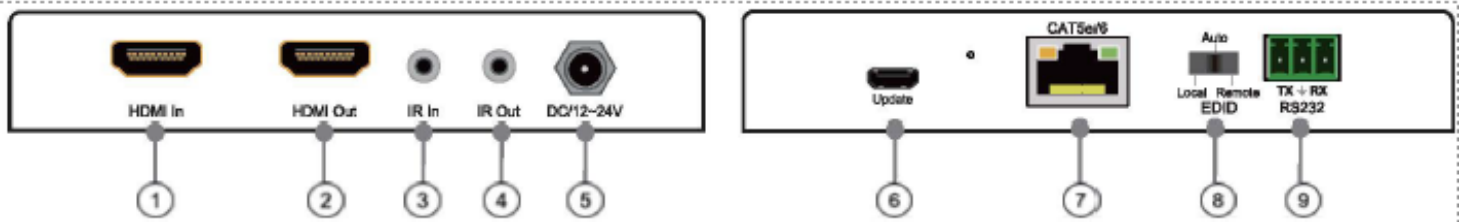
- Bandwidth up to 18Gbps, resolution up to 4k 60hz YUV 4:4:4
- Transmit up to 70m under 1080p, 130ft. / 40m under 4k
- Supports HDR10, 3D
- With 1 x looping HDMI out at Transmitter and 2 x HDMI out at Receiver
- Bi-directional wide band IR and RS232 Pass through
- Dual PoC (Receiver powered by transmitter or transmitter powered by Receiver)
- HDCP 2.2 / HDCP 1.4 Compliant

## 6. Specifications

Operating Temperature Range	-10°C ~ 55°C   14°F ~ 131°F
Operating Humidity Range	5 to 90% RH (Non-condensing)
Input Video Signal	0.5 – 1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Video Format Support	DTV / HDTV; 4K / 1080P/ 1080i / 720P(50Hz) / 576P / 480P / 576i / 480i
Output Video	HDMI 2.0   HDCP 1.4 / 2.2
Output Audio	Supports DTS-HD, Dolby-HD
Maximum Transmission Distance	1080P: 230ft. / 70m 4K: 130ft. / 40m
Power Supply	24V 1A
PoC	Power from TX > RX over Cat5e/6 cable
Power Consumption	12W
Dimensions (H x W x D)	139.4mm x 66.8mm x 20mm 5.49" x 2.63" 0.79"
Mass (Main unit)	1.2lbs (Pair)

## 7. Operation Control and Functions

### 7.1 Transmitter Front and Rear Panel



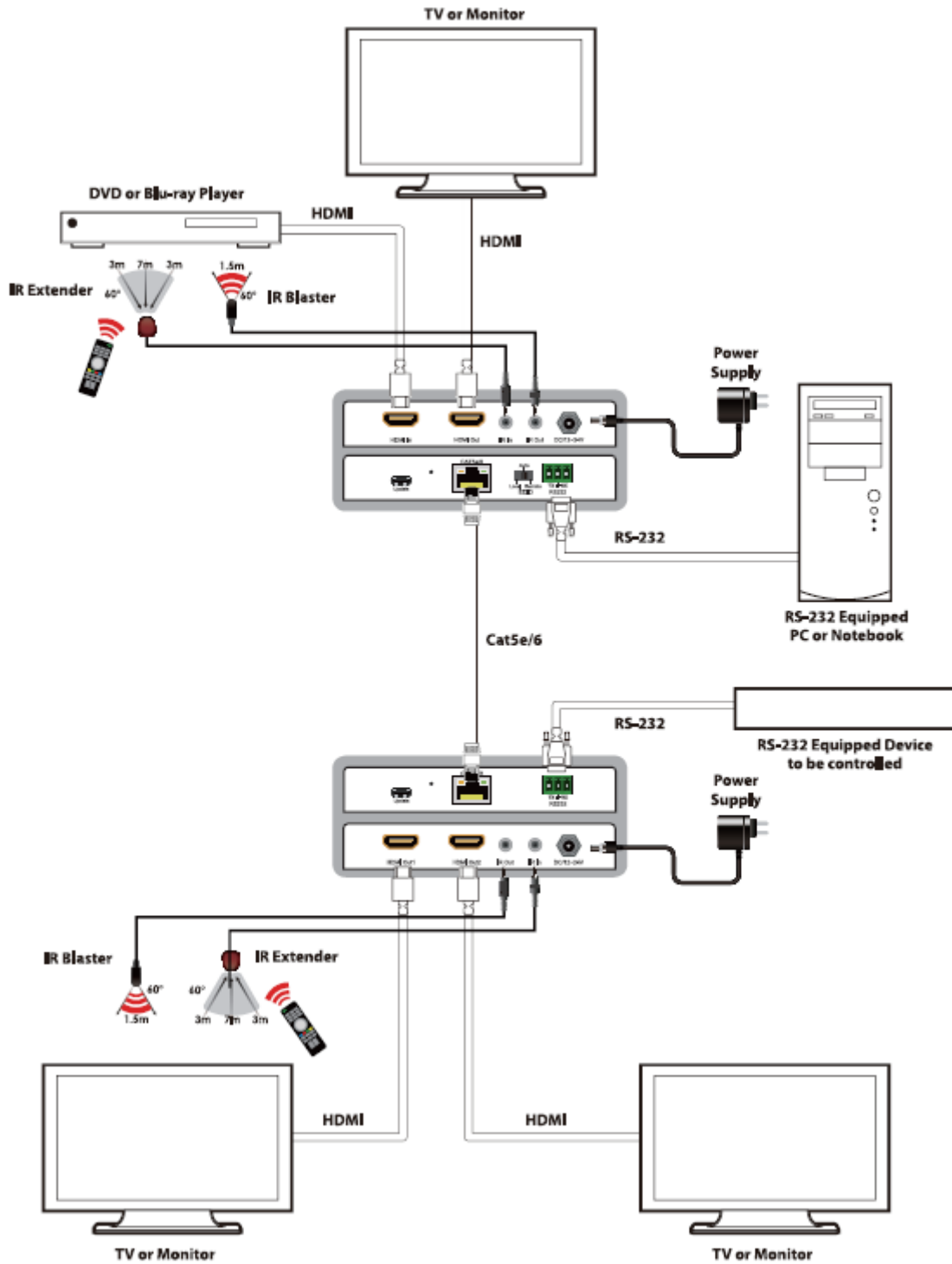
1. HDMI In: Connect to HDMI source equipment such as DVD or Blu-ray player
2. HDMI Out: Connect to a HDMI equipped TV/Monitor for display of the HDMI input source signal
3. IR In: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.
4. IR Out: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled
5. DC/12-24V: Plug the 24V DC power supply into the unit and connect the adaptor to an AC outlet
6. Update: USB port to update the firmware
7. CAT5e/6 Out: Connect to the receiver unit with a single CAT5e/6 cable for transmission of all data signals
8. EDID: Auto: default 4K@60Hz  
  
Local: copy EDID from display of transmitter  
  
Remote: copy EDID from display of receiver
9. RS232 in: Connect to a PC or laptop with phoenix terminal for the transmission of RS232 commands

## 7.2 Receiver Front and Rear Panel



1. HDMI Out 1: Connect to a HDMI equipped TV/Monitor for display of the HDMI input source signal
2. HDMI Out 2: Connect to a HDMI equipped TV/Monitor for display of the HDMI input source signal
3. IR Out: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled
4. IR In: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.
5. DC/12-24V: Plug the 24V DC power supply into the unit and connect the adaptor to an AC outlet
6. Update: USB port to update the firmware
7. CAT5e/6 In: Connect to the transmitter unit with a single CAT5e/6 cable for transmission of all data signals
8. RS232 Out: Connect to the device that is to be controlled via phoenix terminal by RS-232 commands

## 8. Connection Diagram



## 9. Maintenance

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

## 10. 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.

## 11. 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.

## 12. 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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