AAS

HDMI Extender over UTP

VHDE1-200

Rx

Tx

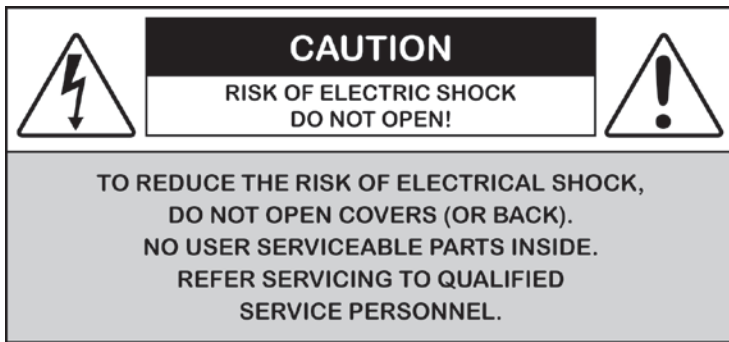## Features   ..

- Extends HDMI 1080p AV Signal
- Transmission distance up to 40m/120ft via CAT6 cable or higher grade cable
- 5V DC, 1A

⚠ **Please read the _Manual_ before attempting to use this product.**

Specifications and appearance are subject to change without notice.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN!

**TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT OPEN COVERS (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.**

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

⚠ Caution ..

This product has been tested for conformance to safety regulations and requirements. However, like all electronic equipment, this product should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

1. Handle this product with care
   Avoid any shock or bumping of the product. Improper handling could damage the product. Do not handle the unit with wet hands. Provide proper ventilation and air circulation and do not use near water.

2. Requires a proper operating environment
   This product is not waterproof and is designed for indoor use. The allowable temperature range for operation of this product is between 0°C~55°C / 32°F~131°F.

3. Check the power source voltage
   The power source voltage should be within the specified range. (Product must meet the specifications).

4. Objects and liquid entry
   Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Cleaning
   Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

6. Servicing
   Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.
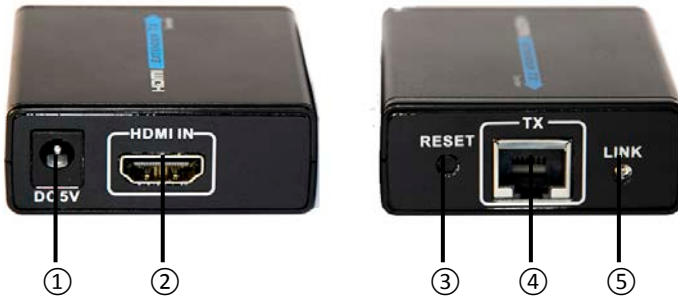
Package Contents .

1. One (1) HDMI to LAN Transmitter (Tx)
2. One (1) LAN to HDMI Receiver (Rx)
3. Two (2) 5V DC 1A Power Supplies
4. One (1) User Manual

For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.
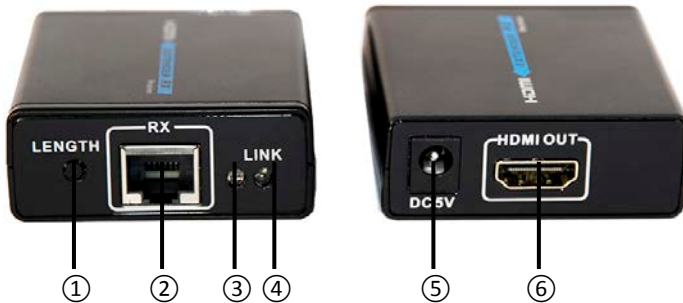
Parts & Functions .

Transmitter (Tx)

① DC 5V power input
② HDMI signal input
③ RESET
④ RJ45 signal output
⑤ HDMI signal indicator LED: It lights on all the time with HDMI signal input and flashes with no signal input.
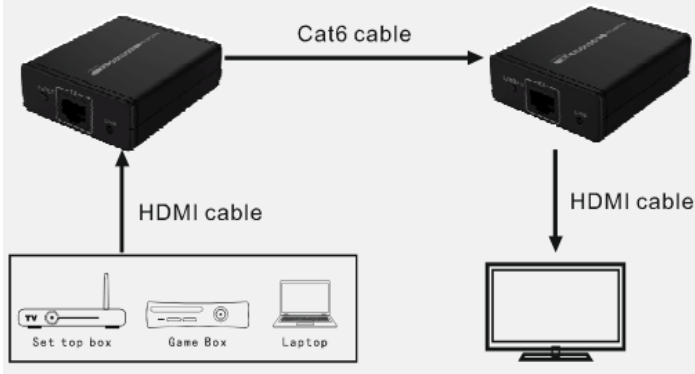
Receiver (Rx)

① Network Cable Length Adjust Button: There are total 12 levels and can be switched cyclically. Supports memory function and needs no setting after power off.
② RJ45 signal input

③ First Level Network Cable Length LED: If you need the third level network cable length, please press the button "LENGTH" twice when this LED lights on and so on.

④ Connection Status Indicator LED: It lights on all the time with HDMI signal transmission and flashes with no signal transmission.

⑤ DC 5V power input

⑥ HDMI signal output

Application Diagram ..

Hardware Installation ..

1. HDMI source device (computer graphics card,DVD,PS3,HD monitoring equipment etc.
2. HDMI display device like SDTV,HDTV,projector with HDMI port.
3. UTP/STP cat6/cat6A/cat7 cable.
4. Follow standard IEEE-568B.
5. Transmit length more than 40m by CAT6 cable or higher level cable.

Technical Specifications ..

Model	VHDE1-200
Power Supply	5V DC 1A
Power Consumption	Tx: <2W ; Rx: <2W
Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Network Cable	Low resistance and consumption oxygen-free copper core (CAT6, CAT6A, CAT7)
Transmission Length	Transmit length up to 40m/120ft by CAT6 cable or high level cable
Dimension (L x W x H)	66 x 56 x 22 mm / 2.3 x 2.2 x 0.87 inches

*Specifications are subject to change without notice

Troubleshooting

Issue	Solution
No image output	Adjust Rx "Length" button
Rx "Link" LED is flashing all the time	Make sure network cable connection follows the way of 568B; Check whether Tx has HDMI signal input; Reset Tx or Rx.
Rx "Link" LED lights on all the time but no image output	Adjust Rx "Length" button; Make sure HDMI cable is well connected with TV.

Limited Warranty

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. **Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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CAUTION!!!
Failure to read this notice may result in damaging the camera or device in which the <u>warranty will be voided</u> due to installation error.

When using any type of RJ45 jack powered balun, a **Cable Tester** must be used to ensure proper connection. Many individuals can make RJ45 connections easily, however mistakes can be made. When making connections for powered baluns, make sure to test the connectivity and ensure proper alignment on both sides.
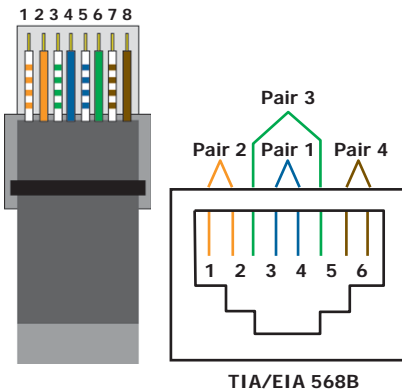
Cable Tester

When using passive or active baluns, the alignment of the cable is imperative to the success of the operation. Use a Cable Tester because it is a very simple, easy to find tool that can save a huge headache. For example, if one of the video wires accidentally gets crimped into the power side and the powered balun is then hooked up to the camera, both the camera and the balun have just burned out. This is an extremely costly mistake, not only in dollars but in time as well. How long does it take to test the RJ45 using a Cable Tester? **Less than one minute**.

The new terms and conditions state: When an RMA is requested and the product has been burned by bad RJ45 connections, the product is NO LONGER covered under warranty.

Note: Whichever way the RJ45 is terminated on one end of the cable, IT MUST BE THE SAME ON THE OTHER SIDE for either TIA/EIA 568A or TIA/EIA 568B. Below is an example of TIAEIA 568B.

Pin	Pair	Color	Character
1	2	Orange / White	Video +
2	2	Orange	Video –
3	3	Green / White	Power –
4	1	Blue	Power –
5	1	Blue / White	Power –
6	3	Green	Power +
7	4	Brown / White	Power +
8	4	Brown	Power +

TIA/EIA 568B

MADE IN CHINA

HD-1
R201504-V22