

ANI-HDB70

HDMI Extender over HDBaseT

INSTRUCTION MANUAL





SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance
 - E. The equipment has been dropped, or the enclosure damaged.

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▶ INTRODUCTION

The ANI-HDB70 HDMI Extender over HDBaseT (single CAT5e/6/7) is a tool for extending your HDMI signal over long distances to a compatible display. It is designed to convert HDMI signal to standard HDBaseT signal and transmit by dedicated CATx cable. It also supports Bidirectional Infrared (IR) signal together with the HDMI signal, so you can control the Source device or the display. The ANI-HDB70 operates at 1080p up to 230 feet (70m) using CAT5e or better. The greatest feature is the PoH (Power over HDBaseT) also known as PoE (Power over Ethernet or PoCC Power over Category Cable).

You only need one power supply (included) that provides power to both the transmitter and the receiver. You can install the PoH power supply on either the Transmitter or the Receiver.

▶ PACKAGE CONTENTS

Check that you have the following components;

- (1) ANI-HDB70 Extender Transmitter
- (1) ANI-HDB70 Extender Receiver
- (2) IR Transmitter
- (2) IR Receiver
- (1) Users Guide
- (1) 12V 2.5A DC Power Supply adapter

▶ SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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FEATURES & SPECIFICATIONS

FEATURES

- Transmits at a distance of up to 230 ft. (70m)
- One pair as a full functional module, no need for setting DIP switches
- PoE (Power Over Ethernet), either TX or RX powered 12V@2.5A
- Consumption less than 10W
- Use single UTP/STP LAN cable CAT5e, 6 or 7 to substitute HDMI cable to achieve long distance transmission
- UTP/STP cable termination follows the standard of IEEE-568B. Not compatible with EZ-RJ45® connectors
- Transmission distance:
 - 230 feet (70m): 1080p @60Hz@36bit; 3D1080p@30Hz@36bit;
 - 130 feet (40m): 1080p @60Hz@48bit; 1080p @120Hz@24bit; 3D1080p@60Hz@36bit
 - 4K x 2K@30Hz@24bit
- HDMI V1.4 supported
- HDCP compliant
- Full HD support: 1080p@60Hz@48 bit/pixels, 1080p@120Hz@24 bit/pixels, 3D 1080p60Hz and 4K x 2K@30Hz@24bit
- Bi-directional Infrared control signal together with the HDMI signal
- Full 3D pass through
- High EMI rejection for compatibility even in challenging installations
- Supports all embedded audio signals including Dolby TrueHD and DTS-HD Master Audio
- Mounting ears included

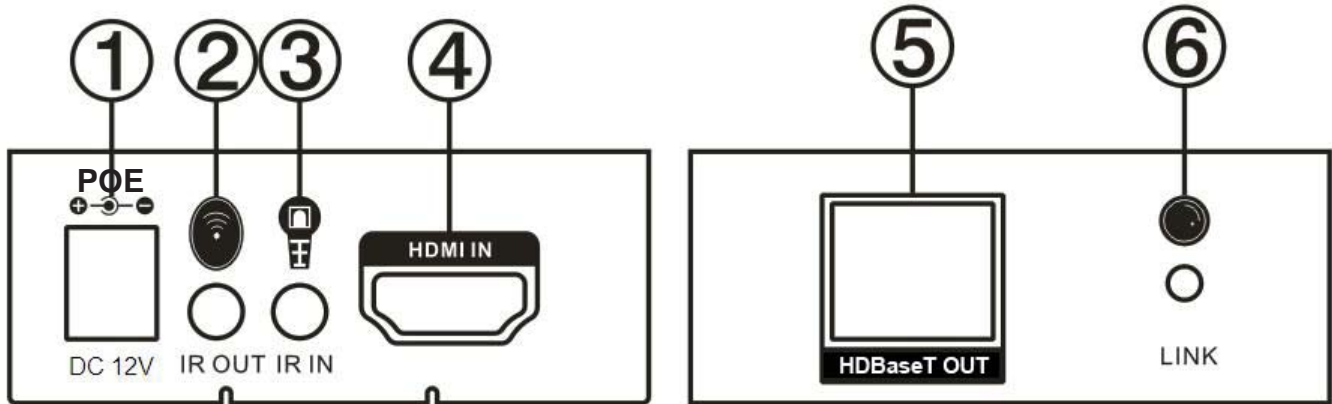
SPECIFICATIONS

- **Frequency Bandwidth:** 2.97Gbps
- **HDMI Transmitter Input/Output Ports:**
 - 1x HDMI Female port
 - 1 x RJ-45
 - 1x IR Transmitter
 - 1x IR Receiver
- **HDMI Receiver Input/Output Ports:**
 - 1 x HDMI Female port
 - 1 x RJ-45
 - 1x IR Transmitter
 - 1x IR Receiver
- **Power Supply:** DC 12V 2.5A
- **ESD Protection Human Body Model:**
 - ± 8kV (air-gap discharge)
 - ± 4kV (contact discharge)
- **Dimensions (WxDxH):** 2.5 x 3.9 x 1 in (65x100x25mm)
- **Weight:** 7 ounces each (200g each)
- **Operating Temperature:** 0°C ~ 40°C / 32°F ~ 104°F
- **Operating Temperature:** 0°C ~ 40°C / 32°F ~ 104°F
- **Storage Temperature:** -20°C ~ 60°C / -4°F ~ 140°F
- **Relative Humidity:** 20 ~ 90% RH (Non-condensing)
- **Power Consumption (Max):** 20W

As product improvements are continuous, specifications are subject to change without notice.

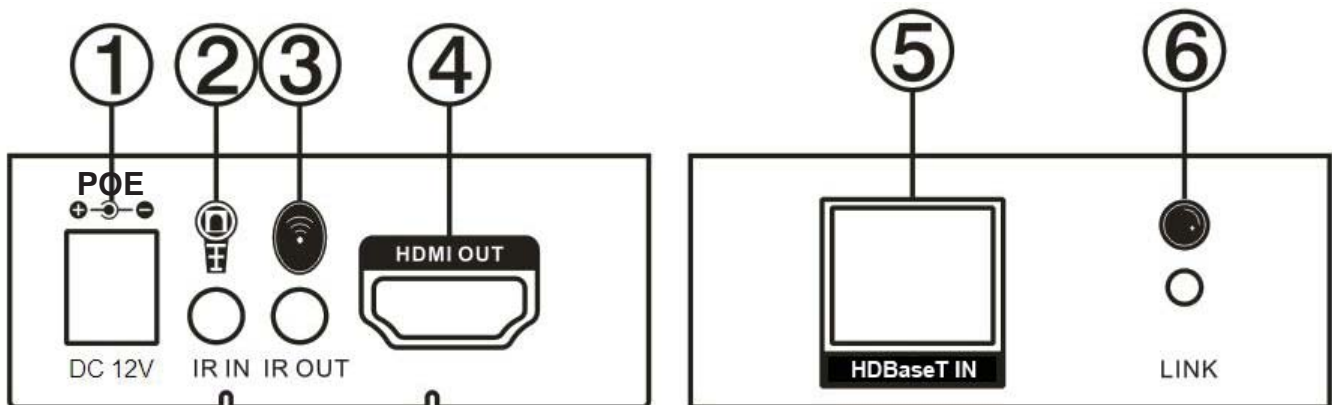
OPERATION CONTROLS AND FUNCTIONS

TRANSMITTER



- 1. DC IN:** Plug the 12V DC power supply into the unit.
- 2. IR OUT:** IR Transmitter.
- 3. IR IN:** IR Receiver.
- 4. HDMI IN:** HDMI Input port.
- 5. HDMI Signal OUT:** CAT5e/6/7 RJ-45 IEEE-568B
- 6. LINK LED:** Illuminates when the Transmitter unit and Receiver unit has a valid LAN connection.

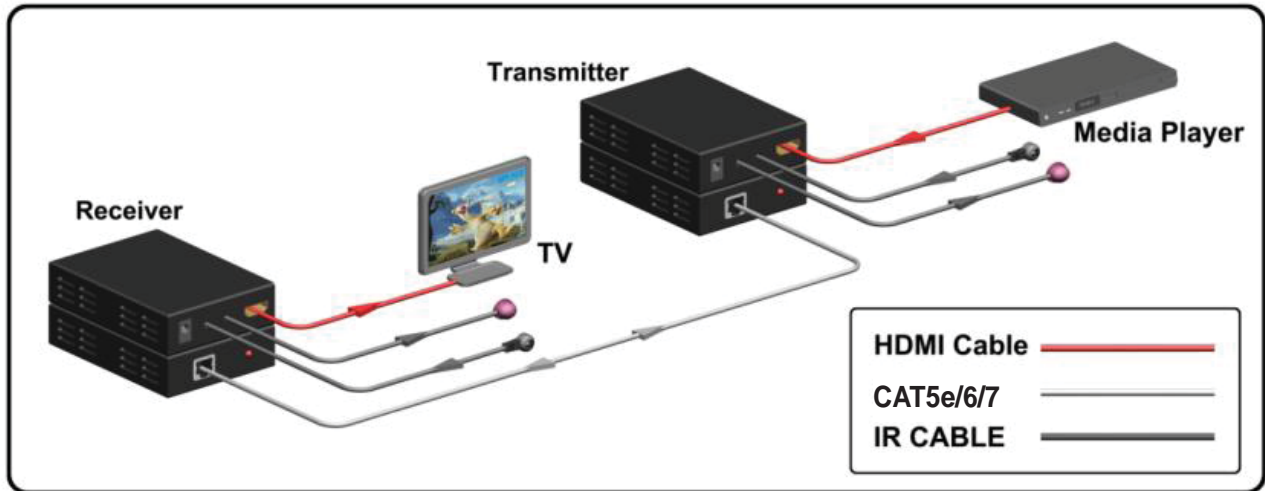
RECEIVER



- 1. DC IN:** Plug the 12V DC power supply into the unit.
- 2. IR IN:** IR Receiver.
- 3. IR OUT:** IR Transmitter.
- 4. HDMI OUT:** HDMI Output port.
- 5. HDMI Signal IN:** CAT5e/6/7 RJ-45 IEEE-568B
- 6. LINK LED:** Illuminates when the Transmitter unit and Receiver unit has a valid LINK connection.

APPLICATION EXAMPLE / IR EXAMPLE

EXAMPLE

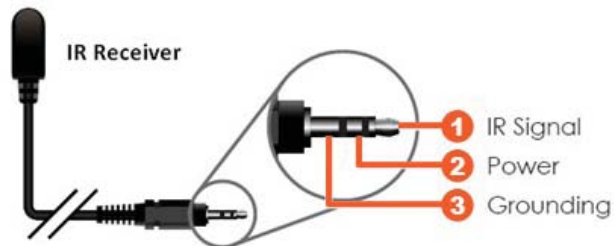


IR EMITTERS 56khz

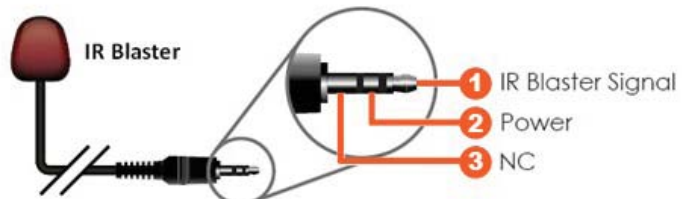
Included in each kit:



2x
IR Rx
RECEIVERS



2x
IR Tx
TRANSMITTERS



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