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HDMI

HDMIE50P

HDMI Extender 70m over single CAT with IR control and HDMI loop out

User Guide



Important Safety Notice

Thank you for purchasing this Antiference HDMI extender product. Please read the following instructions carefully and retain for future reference.

Please pay careful attention to the following safety considerations:

1. Do not place any items on the device
2. Ensure no liquids are on or near the device as splashes may damage the unit
3. For cleaning, use a damp cloth only without solvents
4. Do not attempt to open the case as there is a danger of electric shock
5. Repairs should be carried out by a qualified technician
6. Place the unit in a well ventilated area to prevent overheating
7. Carry out the installation before connecting the device to a source of power
8. Use only the supplied power supply as 3rd party products may damage the product

Introduction

This HDMI Extender set includes a transmitter unit (TX) and a receiver unit(RX). It allows for transmission and extension of uncompressed full HD 1080p@60Hz HDMI signal via CAT6/6A/7 network cable. The transmission distance is up to 70 meters with zero latency. It also features an EDID switch allowing the user to set a specific HDMI signal format. IR control is also included allowing the source device to be controlled from the remote location. The adaptors for this feature are provided in the kit. This device is typically suitable for SKY TV, Blu Ray and Apple TV installations.

Features

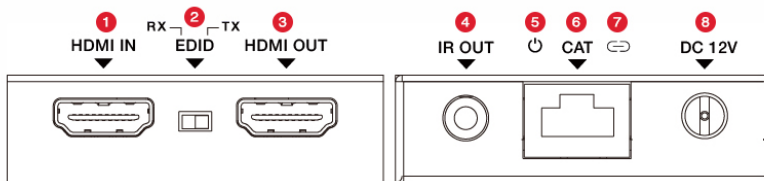
1. Transmitter (TX) & receiver (RX) kit
2. Supports up to 1080p@60Hz resolutions
3. Suitable for use with CAT6 cables
4. Up to 70m range
5. Uncompressed audio/video
6. EDID management system
7. HDMI loop out for local TV set
8. PoC system – RX is powered from TX
9. IR control

Package contents

1. X1 HDMI Transmitter
2. X1 HDMI Receiver
3. X1 IR Tx cable
4. X1 IR Rx cable
5. X1 12V1A DC Power Supply
6. X1 Product Manual

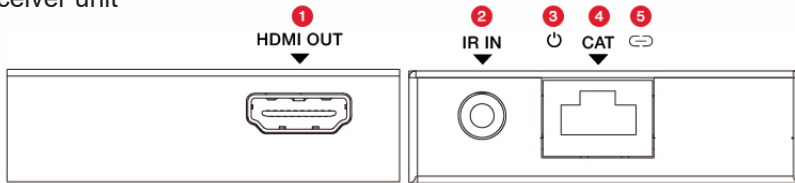
Panel Descriptions

Transmitting unit



1. HDMI Input
2. EDID Management Switch The switcher can switch copy EDID fuction,switch to right position,the extender will copy hdmi loop out display EDID information to source. Switch to left position,the extender will copy Receiver display EDID to source.
3. HDMI Loop Out
4. IR Out
5. Power Status LED
6. RJ45 Output
7. Link Status LED
8. DC 12V

Receiver unit



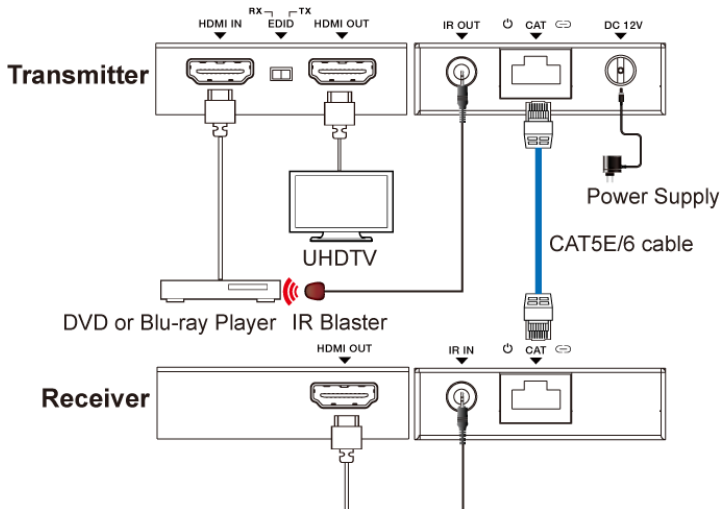
1. HDMI Output
2. IR Input
3. Power Status LED
4. RJ45 Input
5. Lock LED - stable when lit

Installation and Connection

1. **How to make a CAT6/6A/7 network cable.
Follow the standard of IEEE-568B**

1.white and orange; 2. orange; 3. white and green; 4. blue; 5. white and blue; 6. green; 7. white and brown; 8. brown

2. Connection



3. Connection Instruction

- 3.1. Connect source device to Transmitter unit (TX), and display device to Receiver unit (RX) via HDMI cables.
- 3.2. Connect Transmitter unit (TX) and Receiver unit (RX) via network cables (CAT6, CAT6A or CAT7).
- 3.3. Plug the power supply into Transmitter unit only.

[NOTE] We recommended using a cable length range within 10~60m. If the CAT6 cable is too short, there may be no display output because the signal is too strong. If the CAT6 cable is too long, the output may be too weak and image may not be stable.

4. IR Control Set Up

- 4.1. The IR blaster sensor should be connected to the IR OUT port on transmitter (TX) of HDMI extender, and the IR receiver sensor should be connected to the IR IN port of receiver (RX).
- 4.2. Position the TX sensor so it is the correct position on the source device (in front of the sensor on the source).
- 4.3. The IR RX can be attached the front of the TV set in suitable view of the remote control.

5. EDID Settings

5.1. The HDMI source device reads the EDID information from the transmitter (TX) and then outputs the relative HDMI signal format.

5.2. It is possible to save the EDID information from a TV set in the transmitter. To achieve this, you must connect a TV via the HDMI loop out port. Switch the EDID switch to the right position and the EDID from the TV connected to the loop out will be saved in the transmitter. Switch the switch to the left and the EDID from the TV connected to the receiver will be 'seen' by the source.



IR Control Set Up

Wideband IR (30KHz---60KHz) introduction

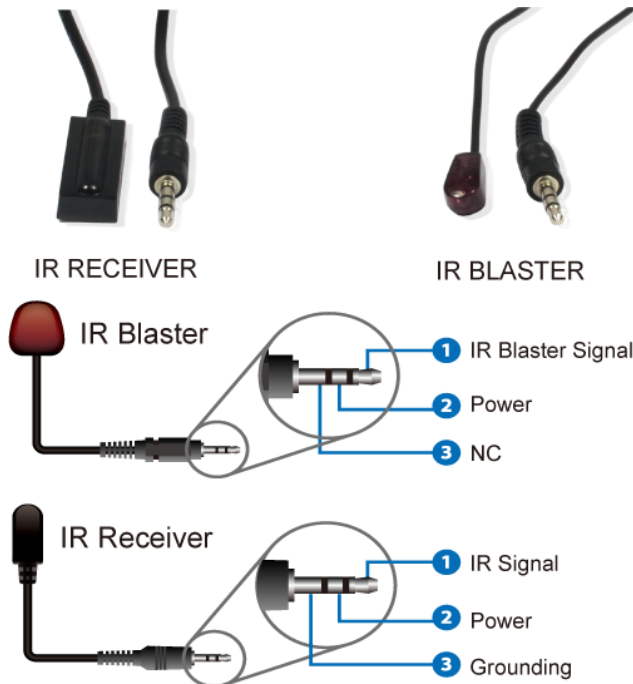
IR BLASTER (TX)

To control the source: Plug IR Blaster into IR TX port of transmitter unit; place blaster in front of the IR eye of the source.

IR RECEIVER (RX)

To control the source: Plug IR Receiver into IR RX port of receiver unit; place receiver at or near display.

Ensure remote being used is in direct line of sight of the IR receiver.



FAQ

Q: No audio or video being recieved?

A: Check connections or cable length. Try a different PSU

Q: Receiver "LINK" led is flashing all the time?

A:

1. Make sure network cable connection follows the standard of IEEE-568B
2. Check whether Transmitter has HDMI signal input.
3. Reset Transmitter & Reciever and reconnect.

Q: Receiver "LINK" led light on all the time but no image output?

A:

1. Make sure HDMI cable is connected properly to the TV.
2. Make sure the network cable is not too long and proper quality.



Specification

Items	Specification
Video Bandwidth	10.2Gbps
Video Support	480i/480p/720p/1080i/1080p @60
Audio Support	Surround Sound (up to 7.1 ch) or stereo digital audio
Transmission Range	HD [1080p 24-bit color] – up to 70m [164ft]
Input TMDS Signal	3.3 volts
Input DDC Signal	5.0 volts/P-P
ESD Protection: Human Body mode	+/- 8 kV (air-gap discharge) +/- 4 kV (contact discharge)
HDMI connector	Type A 19 pin female
RJ-45 connector	WE/SS 8P8C
3.5mm connector	(TX and RX) IR Receiver/IR Blaster
Housing	Metal enclosure
Power Supply	(1) 12V1A DC
Power consumption	1.86 watts (TX); 0.87 watts (RX)
Operation temperature	32~104 °F
Storage temperature	-4 ~140 °F
Relative humidity	20~90 % RH (no condensation)

Declaration of Conformity

We, ANTIFERENCE LIMITED herewith declare that the HDMI extender kit complies with all essential requirements and any other applicable conditions set forth on directive 1999/05/CE.

According to the WEEE (Waste Electrical and Electronic Equipment) EU Directive, do not dispose of this product as household waste or commercial waste. Waste Electrical and Electronic Equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.