



150m HDMI Transmitter HE-150U-T



User Manual

Thank you for purchasing this product.

Please read this manual carefully before use to ensure optimal performance and safety.

Please retain this manual for future reference.

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Safety and Compliance

FCC Statement (Class A)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

European Community Compliance Statement (Class A)

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

Disposal of This Product

This product must not be disposed of with household waste. Please recycle it responsibly at a designated collection point for electronic waste in your country.

Trademarks

All trademarks in this document are the properties of their respective owners.

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What's in the box?

HE-150U-T	x 1
3pin-3.81mm Phoenix Connector (male)	x 1
Mounting Ear	x 2
Machine Screw (M3*4)	x 4
Interchangeable 24V 1A Power Adapter	x 1
UK Plug	x 1
US Plug	x 1
AU Plug	x 1
EU Plug	x 1
IR Transmitter	x 1
IR Receiver	x 1
Thank you Card	x 1

Notice

The contents of this manual are subject to change without prior notice as part of continuous product improvement. All updates will be incorporated into subsequent versions of this documentation, ensuring users have access to the most current information regarding product features and procedures.

Overview

Taska **HE-150U-T** is an 150m HDMI Transmitter. It leverages an optimized version of HDBaseT technology. Paired with Receiver, it enables the extension of audio/video signals over a single CAT5e/6 cable for distances up to 150 meters. Supporting resolutions up to 4K2K@60Hz (4:4:4) and HDCP 2.2, it also features an HDMI loop-out, and bi-directional IR, RS-232, and CEC pass-through. This transmitter offers a reliable and ideal solution for home theater, commercial displays, and educational training scenarios.

Features

- HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant.
- Support 18Gbps video bandwidth.
- The maximum extended transmission distance via a single CAT5e/6 cable:
 - 394ft/120m for 4K2K signal;
 - 492ft/150m for 1080P signal
- Support one HDMI loop output.
- With bi-directional IR, RS-232 and CEC control signal transmission.
- HDR, HDR 10+, Dolby Vision, and HLG pass-through.
- Bidirectional PoC (Power over Cable) functionality.
- Compact design for easy and flexible installation.

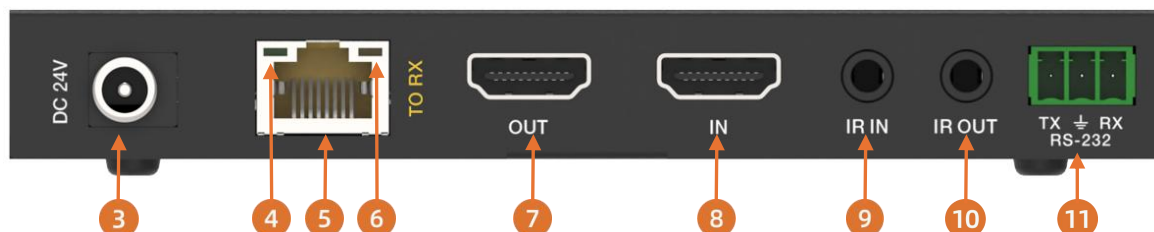
Panel Description

Front Panel



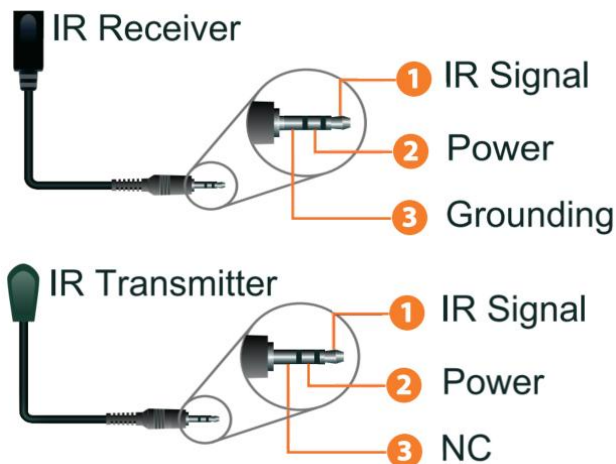
No.	Name	Function Description
1	POWER LED	The red LED will light on when the transmitter is powered on.
2	SERVICE Port	The MicroUSB port, used for software upgrade.

Back Panel



No.	Name	Function Description
3	DC 24V	DC 24V/1A Power Input. This is the DC power input port.
4	Link Signal Indicator	Device Link Status Indicator. • Solid On: Transmitter and receiver are properly connected. • Flashing: The connection between transmitter and receiver is poor or unstable. • Off: Transmitter and receiver are not connected.
5	TO RX port	TO RX Signal Input Port. Connect this port to the FROM TX port on the receiver using a CAT6/6A cable. This connection supports bidirectional PoC (Power over Cable) functionality.
6	Data Signal Indicator	Signal Status Indicator. • Solid On: HDMI signal with HDCP. • Flashing: HDMI signal without HDCP. • Off: No video signal is present.
7	HDMI OUT port	HDMI Output. HDMI loop-out port for a display monitor.
8	HDMI IN port	HDMI Input. Connect to an HDMI signal source device via an HDMI cable.
9	IR IN port	IR Input. Connect to an IR receiver which is bundled.
10	IR OUT port	IR Output. Connect to an IR transmitter which is bundled.
11	RS-232 port	Serial Control Port. Used for RS-232 signal pass-through.

IR Cable Definition



Operation Guide

Getting to start

Power

Use the bundled power adapter or receive PoC (Power over Cable) from the receiver.

HDMI

Connect your source to **HDMI IN**. The **HDMI OUT** port loops the signal to a display.

Connection

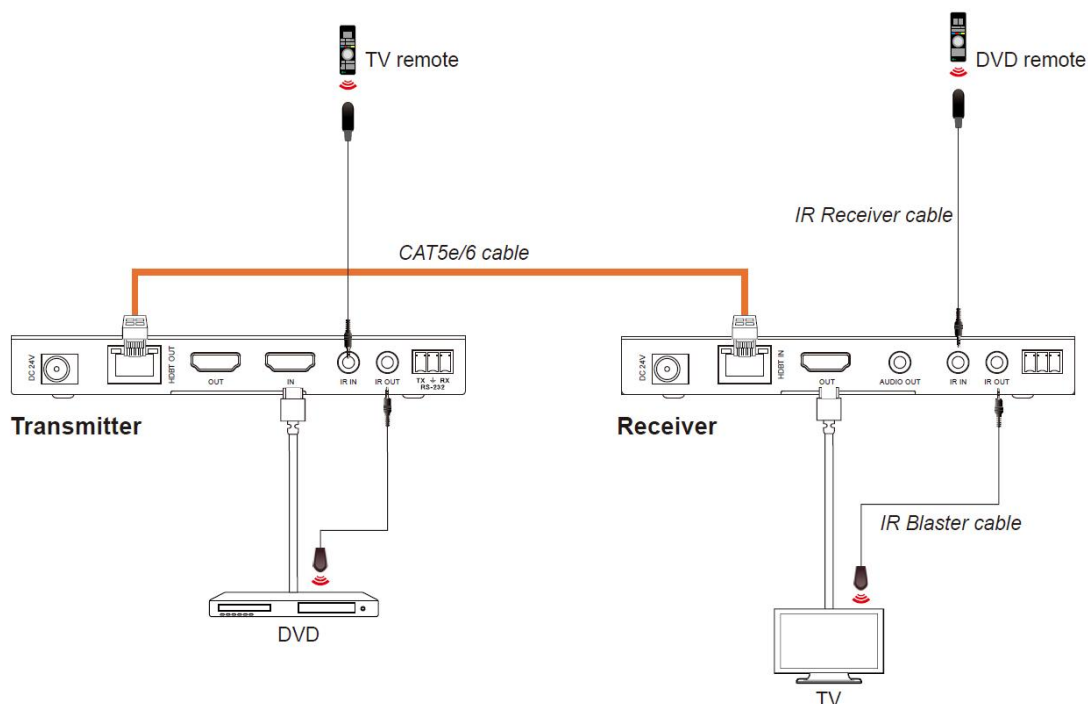
Use a Cat6/6e cable between the transmitter's **TO RX** and the receiver's **FROM TX** port.

IR Control

For remote control, connect the IR Receiver to **IR IN** and the IR Transmitter to **IR OUT**.

RS-232

You can also wire an RS-232 connection directly between the transmitter and receiver units.



Technical Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Input Video Resolutions	4K2K 50/60Hz 4:4:4; 4K2K 50/60Hz 4:2:2; 4K2K 50/60Hz 4:2:0; 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All HDMI 3D TV formats All PC resolutions including 1920 x 1200
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr 4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI IN/OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS-X
Transmission	HDMI passive cable 3m CAT6/6A cable 120m@4K60 CAT6/6A cable 150m@1080P
IR Frequency	20K-60KHz
IR Level	5Vp-p
Connection	
Input	1 x HDMI IN [Type A, 19-pin female]
Output	1 x HDMI OUT [Type A, 19-pin female] 1 x TO RX [RJ45 connector, supporting PoC]
Control	1 x RS-232 [5pin-3.81mm Phoenix connector] 1 x IR IN [3.5mm audio jack] 1 x IR OUT [3.5mm audio jack] 1 x IR OUT [3.5mm Audio Jack] 1 x SERVICE [Micro-USB, FW update port]
Mechanical	
Color	Black
Dimensions	140mm [W] x 65mm [D] x 18mm [H]
Weight	160g
Electrical	
Power Consumption	~9.36W (Max)
Power Supply	Locking 5.5mm x 2.5mm jack: DC 24V/1A
Environment	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20~80% RH (Non-condensing)
Storage Humidity	10~90% RH (Non-condensing)

Warranty

Taska Technology Limited warrants that the **HE-150U-T** is free from defects in materials and workmanship under normal use for a period of 60 months (5 years) from the original date of purchase. To obtain warranty service, customers must contact their local authorized Taska distributor.

This warranty does not apply under the following conditions:

- A. Damage resulting from negligence, accident, lightning, water, acts of God, or improper handling;
- B. Failure to operate the equipment in accordance with the procedures specified in the official user manual;
- C. Repairs, modifications, or alterations performed by unauthorized service centers;
- D. Removal, alteration, or defacement of the original product serial number;
- E. Damage caused by the use of unauthorized external equipment that affects performance, safety, or reliability;
- F. Products for which replacement parts or components are discontinued and no longer available.

Proof of purchase is required for all warranty claims.



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