



HDMI® EXTENDER over single UTP Cable
with IR Control

SKU: 31001074

User's Manual

Thank you for purchasing HDMI® Extender. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

INTRODUCTION

The HDMI Extender over single UTP cable with IR extends high definition video and audio signals and IR, at a distance of up to 164ft (50m) over a single Cat5e/6 cable. Features EDID management, which allows and encourages source and display "handshake" for seamless integration. With only one cost effective Cat5e/6 cable, high definition sources with HDMI outputs can be connected to high definition displays with HDMI inputs over long distances. Deep color video, DTS-HD or Dolby TrueHD™ audio is supported and compatible with the extender. In addition, the extender is also equipped with pass-through which allows for source control.

The Transmitter is used to capture the HDMI input with IR signals and carries the signals via one cost effective Cat5e/6 cable. Receiver is responsible for equalizing the transmitted HDMI signal and reconstructing IR control signals. The extender offers the most convenient solution for HDMI extension over a single Cat5e/6 with long distance capability, and is the perfect solution for any application.

FEATURES

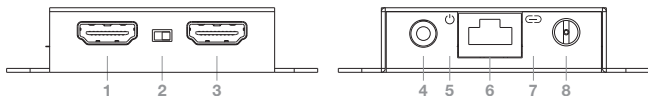
1. Allows HDMI Audio/Video and IR signals to be transmitted over a single Cat5e/6 cable
2. Support copy EDID from receiver display or loop out display
3. Allows for cascading via additional HDMI loop out port
4. Support Power over ethernet cable function
5. Extends 1080p resolution up to 164ft/50m over a single Cat5e or Cat6 cable
6. Works with HDMI and HDCP compliant devices
7. Supports up to 1080p High Definition resolution
8. Compact design for an easy and flexible installation

PACKAGE CONTENTS

1x HDMI Transmitter	1x Windband IR Rx cable
1x HDMI Receiver	2x 5V DC Power Adapter
1x Windband IR Tx cable	User's Manual

PRODUCT OVERVIEW

Transmitter



1. HDMI In: Connect HDMI devices
2. EDID:
Right - The extender will copy HDMI loop out display EDID information to source
Left - The extender will copy the Receiver display EDID to source
3. HDMI Out: Connect to TV or monitor
4. IR Out: Connect the IR Blaster cable which should be in directly placed with the equipment to be controlled
5. Power Indicator: Illuminate when connected with power supply
6. CAT: Connect the Transmitter and the Receiver with CAT 5E/6 cable
7. Link Indicator: Illuminates when the device is connected to HDMI source
8. DC 5V - Plug in included power adapter





Receiver



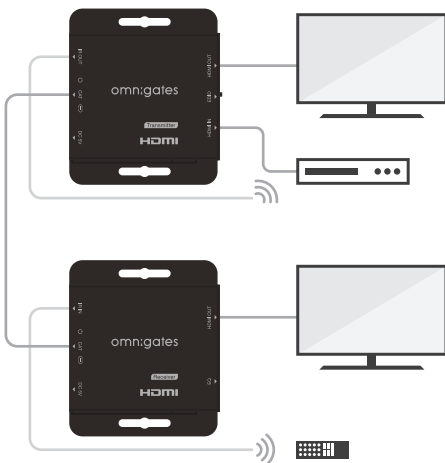
1. EQ Switcher: Receiver equalizer switcher
2. HDMI Out: Connect to TV or monitor
3. IR In: Connect the IR Receiver for IR signal reception. Ensure that the remote is within the direct line-of-sight of the IR Receiver
4. Power Indicator: Illuminates when connected with power supply
5. CAT: Connect the Transmitter and the Receiver with CAT 5E/6 cable
6. Lock Indicator: Illuminates when the HDMI signal from the transmitter is stable
7. DC 5V - Plug in included power adapter

RX EQUALIZER DISTANCE ADJUST

If image on the display is flickering or blinking, adjust the EQ switch to improve the cable skew. MAX stands for the strongest HDMI signal for the longest possible transmission length while MIN stands for the weakest HDMI signal for short transmission length. Adjust the signal level from MIN to MAX until desired video quality is displayed.

Recommended EQ Setting	
Position	Cable Length
 0 1	Under 49.5ft (15m)
 2 3	49.5 ~ 99ft (15 ~ 30m)
 4 5	99 ~ 132ft (30 ~ 40m)
 6 7	132 ~ 164ft (40 ~ 50m)

CONNECTION DIAGRAM



SPECIFICATIONS

Video Bandwidth	: 4.95Gbps
Video Support	: 480i / 480p / 720p / 1080i / 1080p@60
Audio Support	: Surround Sound (up to 7.1ch) or Stereo Digital Audio
Transmission Range	: HD (1080p 24-bit color) - up to 164ft (50m)
Input TMDS Signal	: 3.3 volts
Input DDC Signal	: 5.0 volts/P-P
ESD Protection	: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
RJ-45 Connector	: WE/SS 8P8C
Power Supply	: 5V 1A DC
Power Consumption	: 1.5W (Transmitter) / 1.0W (Receiver)
Operation Temperature	: 32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	: -4°F ~ 140°F (-20°C ~ 60°C)
Relative Humidity	: 20 ~ 90% RH

REGULATORY COMPLIANCE

Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Omnigates' authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This Equipment has been tested and found to comply with the limits for a Class B 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.

Radio Notice for FCC

Caution

This FCC Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modification to said product not expressly approved by Omnigates, including the use of non-approved antennas, could void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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