

Wall Plate HDMI® over Cat 5e/6 Extender - 165ft (50m)

ST121HDWP



*actual product may vary from photos

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FCC Compliance Statement

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.

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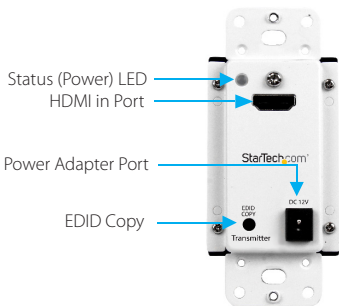
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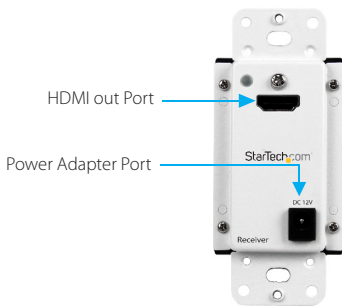
Product Diagram

Front View – Transmitter/Receiver Unit

Transmitter Unit

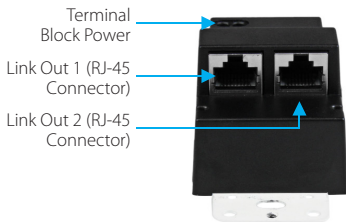


Receiver Unit

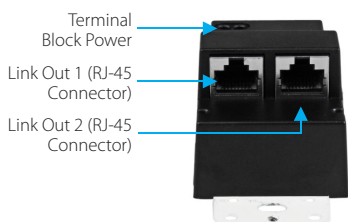


Rear View – Transmitter/Receiver Unit

Transmitter Unit



Receiver Unit



Introduction

Packaging Contents

- 1 x Wall-mounted HDMI Extender
- 1 x Wall-mounted HDMI Receiver
- 1 x Power Adapter
- 1 x Instruction Manual

System Requirements

- HDMI-enabled video source device (i.e. computer, Blu-ray player)
- HDMI-enabled display device (i.e. television, projector)
- Available AC electrical outlet or DC terminated power source for either the transmitter or receiver
- 2x HDMI cable (for video source to transmitter and receiver to display)

Preparing Your Site

1. Determine where the local video source (i.e. computer, Blu-ray player) will be located and set up the device. Ensure this is near an electrical box with 2x terminated RJ45 connectors leading to the remote display.
2. Determine where the remote display will be located and place/mount the display appropriately. Ensure this is near an electrical box with 2x terminated RJ45 connectors leading to the local video source.

Note: This HDMI extender kit features Power Over Cable, allowing both the transmitter and receiver to be powered from a single power source that connects to either the transmitter or receiver unit. Please ensure that the unit you've chosen to power is situated near an available AC electrical outlet, or a DC terminal power source is available in the electrical box for the transmitter or receiver unit. Make sure all devices are turned off before beginning installation. Before you begin Hardware Installation ensure both transmitter and receiver are properly grounded.

Hardware Installation

1. Install the RJ45 terminated Cat5e/6 Ethernet cables to the transmitter and receiver units.

- a) Connect two RJ45 terminated Cat5e/6 Ethernet cables (not included) to the transmitter unit - one cable for the Link Out 1 RJ45 connector and another one for the Link Out 2 RJ45 connector.

Note: Ensure that the Category 5/6 unshielded twisted pair (UTP) network cabling between the transmitter unit and the receiver unit has been properly terminated in a wall box in each location. Also, ensure that the patch cables are long enough to connect the transmitter unit and the receiver unit inside their respective electrical boxes. The cabling should not go through any networking equipment (i.e. router, switch).

- b) Connect the other ends of your terminated Cat5e/6 cable runs to the Link Out 1 and Link Out 2 RJ-45 connectors on the receiver unit.

2. Connect the power source to the transmitter or receiver unit.

Note: The HDMI extender kit only requires a single power source to be connected to either the transmitter or receiver unit.

There are two methods for providing power to the HDMI extender kit. Please review each method below and determine your desired method.

- a) Method 1 – Using the included power adapter.

Note: If you've chosen Method 1 please complete step 3. (Install the extender and receiver units into the electrical boxes) before connecting your power source.

- i. Determine whether you will be connecting your power source to either the transmitter or the receiver unit.
- ii. Using the included power adapter, connect the power adapter port on either the transmitter or receiver unit to an available wall outlet.

- b) Method 2 – Using terminal DC power.

- i. Determine whether you will be connecting your power source to either the transmitter or the receiver unit.
- ii. Using a small flat-head screw driver, loosen the screws for the terminal block connectors on either the transmitter or receiver unit.
- iii. Connect the power and ground wires from your DC power source to the proper terminal block connectors and refasten the screws. The proper terminals are marked on the transmitter/receiver unit housing.

3. Install the transmitter and receiver units into the electrical boxes.

- a) Install the transmitter unit into the electrical box. Please follow the instructions included with your electrical box to determine which mounting points on the transmitter unit should be used.
- b) Install the receiver unit into the electrical box. Please follow the instructions included with your electrical box to determine which mounting points on the receiver unit should be used.

Note: If you have chosen to connect the power source using the included power adapter (Method 1) please do so now.

Method 1 – Using the included power adapter.

- i. Determine whether you will be connecting your power source to either the transmitter or the receiver unit.
 - ii. Using the included power adapter, connect the power adapter port on either the transmitter or receiver unit to an available wall outlet.
4. **Using an HDMI cable (not included), connect your HDMI-enabled video source device to the HDMI-in port on the transmitter unit.**
5. **Using an HDMI cable (not included), connect your HDMI-enabled display device to the HDMI-out port on the receiver unit.**
Your source video image will now appear on the remote video display.

EDID Configuration

Automatic EDID Configuration

Provided you have both Cat5e/6 Ethernet cables connected from the transmitter unit to the receiver unit, the ST121HDWP will automatically relay the EDID information provided from your HDMI display to your HDMI source device.

Manual EDID Configuration (EDID Copy / EDID Ghost)

If for any reason your configuration does not support EDID, for example there is an adapter or a video switch used in your setup, the ST121HDWP can Copy your EDID settings directly from your EDID compatible display.

Follow the below steps to copy the EDID settings from your display.

1. Ensure the Transmitter and Receiver units have been properly installed, including power source.
2. Connect your HDMI display directly to the video out port on the Receiver unit.
3. Press and hold the EDID copy button the Receiver unit, until the LED lights Green (about 3 seconds).
4. The LED will now flash Blue indicating the EDID Copy procedure was successful.

Note: If the LED flashes RED it is indicated the EDID copy procedure has failed. As a result of one of the following:

- **The display is not properly connected.**
- **The display is not powered on.**
- **The display does not support EDID.**

Please check your setup and attempt the EDID Configuration procedure again.

Restore EDID to Factory Default Settings

Follow the below steps to restore the EDID settings to factory default and remove any copied settings.

1. Ensure the Transmitter and Receiver units have been properly installed, including power source.
2. Press the EDID Copy button on the Receiver unit, until the LED flashes RED (about 6 seconds).
3. The LED flashes Blue indicating the EDID settings have been restored to factory default.

LED Indicator

The transmitter and receiver units on the ST121HDWP are equipped with LED indicators to communicate.

Transmitter LED

Transmitter Status	LED Indication
HDMI EDID content configured	Emits blue and flashes green three times
HDCP sync in progress	Emits purple

Receiver LED

Receiver Status	LED Indication
Video link in progress	Emits blue
No video link	Emits red

NOTE: If you receive the no video link indication on your receiver unit, please check your configuration and ensure the cabling is tested. Low-quality cables degrade the output signal causing elevated noise levels. Use the proper cabling, and make sure the display device supports the resolution and refresh rate that your source device is outputting.

Specifications

Local Unit Connectors	1x HDMI (19 pin) Female / 2x RJ-45 Female
Remote Unit Connectors	1x HDMI (19 pin) Female / 2x RJ-45 Female
Maximum Data Transfer Rate	HDMI - 3.4Gbps
Max Distance	50 m / 165 ft
Maximum Digital Resolutions	1080p @ 60Hz, 48-bit
Wide Screen Supported	Yes
Audio Specifications	Supports Dolby® TrueHD, DTS-HD MA

Technical Support

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Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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