

## HDMI® over Cat 5/6 Extender – 330ft (100m)

ST121HDBTPW



\*actual product may vary from photos

DE: Bedienungsanleitung - [de.startech.com](http://de.startech.com)

FR: Guide de l'utilisateur - [fr.startech.com](http://fr.startech.com)

ES: Guía del usuario - [es.startech.com](http://es.startech.com)

IT: Guida per l'uso - [it.startech.com](http://it.startech.com)

NL: Gebruiksaanwijzing - [nl.startech.com](http://nl.startech.com)

PT: Guia do usuário - [pt.startech.com](http://pt.startech.com)

For the most up-to-date information, please visit: [www.startech.com](http://www.startech.com)

## FCC Compliance Statement

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.

## Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols

This manual may make reference to trademarks, registered trademarks, and other protected names and/or symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders.

# Table of Contents

<b>Product Diagram .....</b>	<b>1</b>
Front View .....	1
Rear View .....	1
<b>Introduction .....</b>	<b>2</b>
Packaging Contents .....	2
System Requirements.....	2
About LED indicators.....	3
<b>Installation .....</b>	<b>4</b>
Hardware Installation .....	4
<b>Specifications.....</b>	<b>6</b>
<b>Technical Support .....</b>	<b>7</b>
<b>Warranty Information.....</b>	<b>7</b>

# Product Diagram

## Front View

### Transmitter

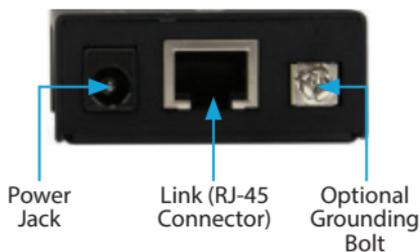


### Receiver

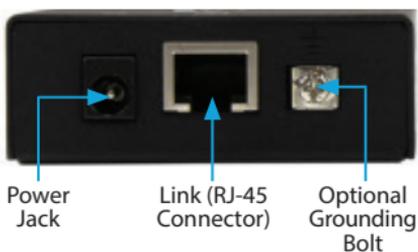


## Rear View

### Transmitter



### Receiver



# Introduction

## Packaging Contents

- 1x HDMI extender
- 1x HDMI receiver
- 4x mounting brackets
- 2x foot pad set
- 1x universal power adapter (NA / EU / UK / AU)
- 2x grounding wires
- 2x screw sets
- 1x 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 for either the transmitter or receiver
- 2x HDMI cable (for video source to transmitter, and receiver to display)

## About LED indicators

Both the transmitter and receiver feature LED indicators located on the top of the units. For more information about what the LEDs signify, consult the table below.

Device	LED behavior	Significance
Transmitter	Green LED is illuminated	Device is receiving power
	Blue LED is illuminated	Link is established
	Flashing blue and green LED	No video source or monitor connected
Receiver	Red LED is illuminated	Device is receiving power
	Blue LED is illuminated	Link is established
	Flashing blue and red LED	No video source or monitor connected

# Installation

1. Determine where the local video source (i.e. computer, Blu-ray Player) will be located and set up the device.
2. Determine where the remote display will be located and place/ mount the display appropriately.

**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 unit you've chosen to power is situated near an available AC electrical outlet. 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 transmitter unit
  - a) Position the transmitter unit near the video source (i.e. Computer, Blu-ray Player).
  - b) Connect an HDMI® cable from the video source device (i.e. computer, Blu-ray Player) to the HDMI® in port on the transmitter unit.
  - c) **(Optional)** If you've chosen to connect the power adapter to the transmitter unit, connect the power adapter from the power adapter port to an available wall outlet.
2. Install RJ45 terminated Cat5e/6 Ethernet Cable
  - a) Connect an RJ45 terminated Cat5e/6 Ethernet cable (sold separately) to the RJ45 connector on the transmitter unit.

**NOTE:** If you are using surface cabling, ensure you have enough Category 5e unshielded twisted pair (UTP) network cabling to connect the Host Unit to the Remote Unit's location, and that each end is terminated with a RJ45 connector. The cabling should not go through any networking equipment (i.e. router, switch).

### OR

If you are using premises cabling, ensure that the Category 5 unshielded twisted pair (UTP) network cabling between the Host Unit and the Remote Unit has been properly terminated in a wall outlet in each location and there is a patch cable long enough to connect the Remote Unit and the Host Unit to their respective outlets. The cabling should not go through any networking equipment (i.e. router, switch).

- b) Connect the other end of the Cat5e/6 cable run to the RJ45 connector on the receiver unit.

### 3. Install receiver unit

- a) Position the receiver unit near the video display (i.e. television, projector).
- b) Connect the video source to the HDMI® out port on the receiver unit using an HDMI® cable.
- c) **(Optional)** If you've chosen to connect the power adapter to the receiver unit, connect the power adapter from the power adapter port to an available wall outlet.

### 4. **(Optional)** Install the grounding wires.

**Note:** Installation of the grounding wires is optional but recommended in environments with high levels of electromagnetic interference (EMI), or frequent electrical surges.

#### **Transmitter**

- a) Using a Phillips type screw driver (sold separately) remove the optional grounding bolt from the Transmitter Unit.
- b) Attach the loop of one of the grounding wires to the shaft of the grounding bolt that was removed.
- c) Using the Phillips type screw driver (sold separately) drive the grounding bolt back into the hole it was removed from, on the Transmitter Unit.
- d) Attach the other end of the grounding wire (that's not connected to the Transmitter Unit) to an earth ground connection.

#### **Receiver**

- a) Using a Phillips type screw driver (sold separately) remove the optional grounding bolt from the Receiver Unit.
- b) Attach the loop of one of the grounding wires to the shaft of the grounding bolt that was removed.
- c) Using the Phillips type screw driver (sold separately) drive the grounding bolt back into the hole it was removed from, on the Receiver Unit.
- d) Attach the other end of the grounding wire (that's not connected to the Receiver Unit) to a proper earth-ground connection.

### 4. Your source video image will now appear on the remote video display.

# Specifications

<b>Local Unit Connectors</b>	1x HDMI® (19 pin) Female 1x RJ-45 Female
<b>Remote Unit Connectors</b>	1x HDMI® (19 pin) Female 1x RJ-45 Female
<b>Maximum Data Transfer Rate</b>	HDMI® - 3.4Gbps
<b>Max Distance</b>	100 m / 330 ft
<b>Maximum Digital Resolutions</b>	4k @ 60Hz, 48-bit
<b>Wide Screen Supported</b>	Yes
<b>Audio Specifications</b>	Supports Dolby® TrueHD, DTS-HD MA

# Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit [www.startech.com/support](http://www.startech.com/support) and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit [www.startech.com/downloads](http://www.startech.com/downloads)

## 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.

### Limitation of Liability

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.

StarTech.com is your one-stop source for every connectivity part you need. From the latest technology to legacy products — and all the parts that bridge the old and new — we can help you find the parts that connect your solutions.

We make it easy to locate the parts, and we quickly deliver them wherever they need to go. Just talk to one of our tech advisors or visit our website. You'll be connected to the products you need in no time.

Visit [www.startech.com](http://www.startech.com) for complete information on all StarTech.com products and to access exclusive resources and time-saving tools.

*StarTech.com is an ISO 9001 Registered manufacturer of connectivity and technology parts. StarTech.com was founded in 1985 and has operations in the United States, Canada, the United Kingdom and Taiwan servicing a worldwide market.*