

# HDMI® over Cat 5e/6 Extender - 30m

ST121SHD30



\*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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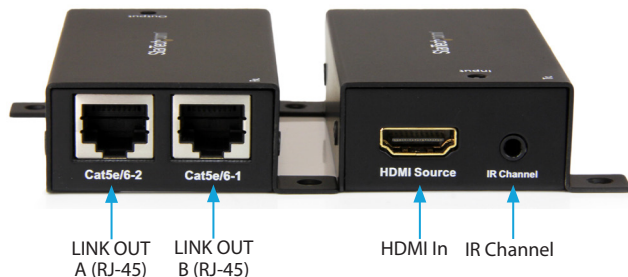
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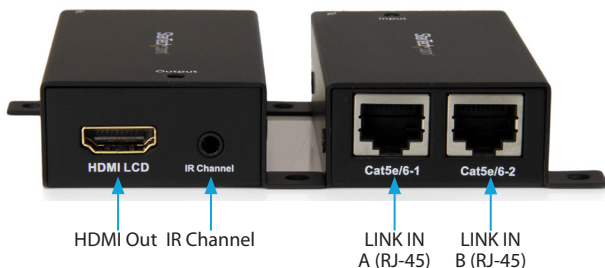
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# Product Diagram

## Transmitter



## Receiver



# Introduction

The ST121SHD30 HDMI® over CAT5e/6 Video Extender kit lets you extend HDMI video and audio up to 100 feet (30 Meters) over 2 CAT5e/6 Ethernet cables. With Power Over Cable (POC) no power adapter is required at either the extender or receiver.

With support for resolutions up to 1920x1080 and the accompanying digital audio, this HDMI extender is a plug-and-play solution that can easily be installed using new or existing Ethernet infrastructure wiring.

Backed by a StarTech.com 2-year warranty and free lifetime technical support.

## Packaging Contents

- 1x HDMI over CAT5e/6 UTP Transmitter
- 1x HDMI over CAT5e/6 UTP Receiver
- 2x Mounting Brackets
- 1x User Manual
- 1x IR Signal Extender Kit

## 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
- HDMI® cables for Receiver and Transmitter

# Preparing Your Site

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 the HDMI video source. No power adapter is required.

## 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" on the Transmitter Unit.
- c) (Optional) If using the ST121SHD30 to extend an infrared (IR) device signal. Connect the IR Receiver Cable (labeled RX) to the IR Channel on the Transmitter Unit (labeled RX), and Position the extended IR sensor directly in front of the video source's IR sensor. Check the manual of your video source device for the IR sensor location.

### 2. Install RJ45 terminated Cat5e/6 Ethernet Cables

- a) Connect an RJ45 terminated Cat5e/6 Ethernet cable (not included) to the LINK OUT A (RJ-45 connector) on the Transmitter unit.
- b) Connect another RJ45 terminated Cat5e/6 Ethernet cable (not included) to the LINK OUT B (RJ-45 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).

- c) Connect the other end of the Cat5e/6 cable (from LINK OUT A) to the LINK IN A (RJ-45 connector) on the Receiver Unit.
- d) Connect the other end of the Cat5e/6 cable (from LINK OUT B) to the LINK IN B (RJ-45 connector) on the Receiver Unit.

**NOTE:** If using Cat6 cables, extension distance is limited to 40m (130 ft)

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 on the Receiver Unit using an HDMI® cable.

c) (Optional) If using the ST121SHD30 to extend an infrared (IR) device signal. Connect the IR Receiver Cable (labeled TX) to the IR Channel on the Transmitter Unit (labeled RX), and Position the IR sensor where the remote control will point.

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

# Specifications

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| <b>AV Input</b>                   | HDMI                                                      |
| <b>AV Output</b>                  | HDMI                                                      |
| <b>Cabling</b>                    | CAT 5e/6 UTP                                              |
| <b>Audio</b>                      | Yes                                                       |
| <b>Local Unit Connectors</b>      | 1x HDMI (19 pin) Female<br>2x RJ-45 Female<br>1x IR 3.5mm |
| <b>Remote Unit Connectors</b>     | 1x HDMI (19 pin) Female<br>2x RJ-45 Female<br>1x IR 3.5mm |
| <b>Maximum Data Transfer Rate</b> | HDMI - 3.4Gbps                                            |
| <b>Max Distance</b>               | 30m/100ft                                                 |
| <b>Maximum Digital Resolution</b> | 1080p @ 60Hz, 48-bit                                      |
| <b>Wide Screen Supported</b>      | Yes                                                       |
| <b>Audio Specifications</b>       | 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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