

HDMI Over CAT5 or CAT6 Extender - 4K 60Hz

ST121HDBT20L

For full manual content please refer to the online manual @ www.startech.com/ST121HDBT20L.

- FR: Guide de l'utilisateur - fr.startech.com
- DE: Bedienungsanleitung - de.startech.com
- ES: Guía del usuario - es.startech.com
- NL: Gebruiksaanwijzing - nl.startech.com
- PT: Guia do usuário - pt.startech.com
- IT: Guida per l'uso - it.startech.com
- JP: 取扱説明書 - jp.startech.com

Package Contents

- 1 x HDMI Transmitter
- 1 x HDMI Receiver
- 1 x Universal Power Adapter (NA/JP, EU, UK, ANZ)
- 2 x Mounting Brackets
- 8 x Rubber Feet
- 1 x Quick-Start Guide
- 1 x IR (Infrared) Receiver
- 1 x IR (Infrared) Blaster

Requirements

- HDMI® Enabled Video Source Device (e.g. computer)
- HDMI Enabled Display Device (e.g. projector)
- Available AC Electrical Outlet for Transmitter or Receiver
- HDMI Cables for Transmitter and Receiver
- CAT5e/CAT6 Network Cable (shielded CAT6 Cable recommended)
- (Optional) Grounding Wire
- (Optional) Phillips Head Screwdriver

Product Diagram

Actual product may vary from photos.

Transmitter Front View



1. LED	3. IR In Port
2. IR Out Port	

Receiver Front View



1. LED	3. IR Out Port
2. IR In Port	

Transmitter Rear View



1. Grounding Screw	2. LINK (RJ45 Connector)
3. DC 18V Power Port	4. HDMI In Port

Receiver Rear View



1. Grounding Screw	2. LINK (RJ45 Connector)
3. DC 18V Power Port	4. HDMI Out Port

Installation

Installing the HDMI Transmitter or Receiver

Note: Make sure that either the HDMI Transmitter or Receiver is located near an AC Electrical Outlet and that all devices connected to them are turned off.

1. Set up the HDMI Enabled Video Source Device (e.g. computer) and the HDMI Enabled Display Device (place/mount the display appropriately).

2. Position the HDMI Transmitter near the HDMI Enabled Video Source Device you set up in step 1.
3. Connect an HDMI cable from the HDMI Enabled Video Source Device to the HDMI In Port on the back of the HDMI Transmitter.
4. Position the HDMI Receiver near the HDMI Enabled Display Device you set up in step 1.
5. Connect an RJ45 terminated CAT5e/CAT6 Ethernet Cable (cables sold separately) to the LINK (RJ45 connector) on the back of the HDMI Transmitter.
6. Connect the other end of the CAT5e/CAT6 Ethernet Cable to the LINK (RJ45 connector) on the back of the HDMI Receiver.

Note: The cabling should not go through any networking equipment (e.g. router, switch, etc.).

7. Connect an HDMI cable from the HDMI Out Port on the back of the HDMI Receiver HDMI to the Enabled Video Sink Device.
8. Connect the Universal Power Adapter to the DC 18V Power Port on either the HDMI Transmitter or Receiver and to an AC Electrical Outlet to power both the HDMI Transmitter and Receiver (using the Power Over Cable feature).

Installing the Ground Wire

Note: Grounding is recommended in environments with high levels of electromagnetic interference (EMI) or frequent electrical surges.

HDMI Transmitter or HDMI Receiver (Back)

1. Using a Phillips head screwdriver (sold separately) remove the Grounding Screw.
2. Attach the Grounding Wire to the shaft of the Grounding Screw.
3. Insert the Grounding Screw back into the Ground.
4. Tighten the Grounding Screw, making sure not to over-tighten.
5. Attach the other end of the Grounding Wire (not connected to the Transmitter/Receiver) to a proper earth ground connection.

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

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. Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

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Warranty Information

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Video Resolution Performance

The video resolution performance of this extender will vary depending on the length of your network cabling.

Distance	Maximum Resolution
70 m (230 ft.) or less	4K at 60Hz
Up to 100 m (328 ft.)	1080p at 60Hz