

HDMI® over Fiber Video Extender with IR

ST121HDFXA



*actual product may vary from photos

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FR: Guide de l'utilisateur - fr.startech.com

ES: Guía del usuario - es.startech.com

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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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Introduction

The ST121HDFXA is a long-range HDMI® video extender kit that uses SC fiber optic cable to extend video / audio from an HDMI®-equipped device up to 2600 feet (800 Meters) to a remote display. The extender supports full High-Definition video (1920x1200 / 1080p), and includes both the transmitter and receiver, for a complete ready-to-use digital signage solution.

Not only is this an incredibly long range solution that can extend an HDMI® signal across or between buildings, but because fiber optics transmit data using light rather than copper, it will not cause or be effected by electromagnetic Interference (EMI).

For convenient, time-saving control of the media source, the HDMI® extender also offers Infrared (IR) extension, which enables you to control the HDMI® audio-video source from either end of the connection. The kit also includes optional mounting hardware for a clean and professional installation.

The ST121HDFXA HDMI® over Fiber Optic Extender kit is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Packaging Contents

- 1x Local HDMI® Extender Unit
- 1x Remote HDMI® Receiver Unit
- 1x IR Receiver Cable
- 1x IR Transmitter Cable
- 2x Mounting Brackets
- 1x Multi-mode SC-SC duplex Fiber Optic cable
- 2x Foot Pad Set
- 2x Universal Power Adapter NA / UK / EU
- 1x User 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 transmitter and receiver
- 2x HDMI® Cable

Front View – Transmitter



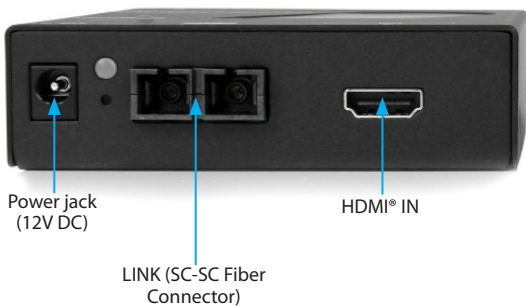
IR Transmitter Port

Front View – Receiver Unit

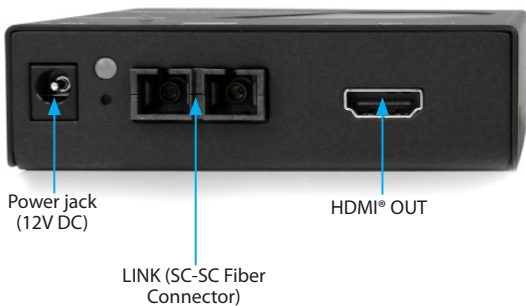


IR Receiver Port

Rear View – Transmitter



Rear View – Receiver Unit



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: Ensure the Transmitter Unit and the Receiver Unit are situated near an available AC electrical outlet. Make sure all devices are turned off before beginning installation.

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) Connect the provided Transmitter Unit power supply.
- d) **(Optional)** If using the ST121HDXA to extend an infrared (IR) device signal. Connect the IR Transmitter Cable to the IR Transmitter port on the Transmitter Unit, 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 SC-SC terminated Fiber Optic Cable

- a) Connect an SC-SC terminated Fiber optic cable SC-SC Fiber Connector on the Transmitter unit.

NOTE: Ensure you have enough Fiber cabling to connect the Transmitter Unit to the Receiver Unit's location, and that each end is terminated with an SC-SC connector. The cabling should not go through any networking equipment (i.e. router, switch).

- b) Connect the other end of the fiber cable run to the SC-SC connector on the Receiver Unit ensuring the SC connector connect to TX the transmitter is connect to RX on the receiver and vise-versa.

Notes:

- Multi-mode fiber cabling (50/125 or 62.5/125) terminated with SC duplex connectors, is required to connect the transmitter to the receiver.
- If your video source is HDCP encrypted, your connected display **MUST** be HDCP compliant. If the extender detects a non-HDCP compliant display while you're extending an HDCP encrypted video source, the content will not display.

Hardware Reset Procedure

NOTE: If video signal does not appear on the display a hardware reset can be performed on the Transmitter Unit, Receiver Units.

1. Press the reset button for more than 3 seconds on the device using a pin point tool, such as a ballpoint pen or a bent paper clip.
2. After 3 seconds disconnect the power adapter while holding the reset button.
3. Release the reset button, and reconnect the power adapter.
4. Your source video image will now appear on the remote video display.

Specifications

Local Unit Connectors		1x HDMI® (19 pin) Female 1x Fiber Optic SC Female 1x IrDA (Infrared) Female
Remote Unit Connectors		1x HDMI® (19 pin) Female 1x Fiber Optic SC Female 1x IrDA (Infrared) Female
Maximum Data Transfer Rate		HDMI® - 1.656G x 3
Max Distance		800 m / 2600 ft. (1080p)
Maximum Digital Resolutions		1080p @ 60Hz, 24-bit
Resolution Performance		50 / 125 Multimode - 800 m at 1080p 1200 m at 1080i
		62.5 / 125 Multimode - 350 m at 1080p 450 m at 1080i
Audio Specifications		Supports Dolby® TrueHD, DTS-HD MA
General Specifications		IR Interface: Uni-directional 20K~60K / $\pm 10^\circ$ / 5M
Power Adapter	Input Voltage	DC 9~12V
	Output Current	1.5A A
	Center Tip Polarity	Positive
	Plug Type	M

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** and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit **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.

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