

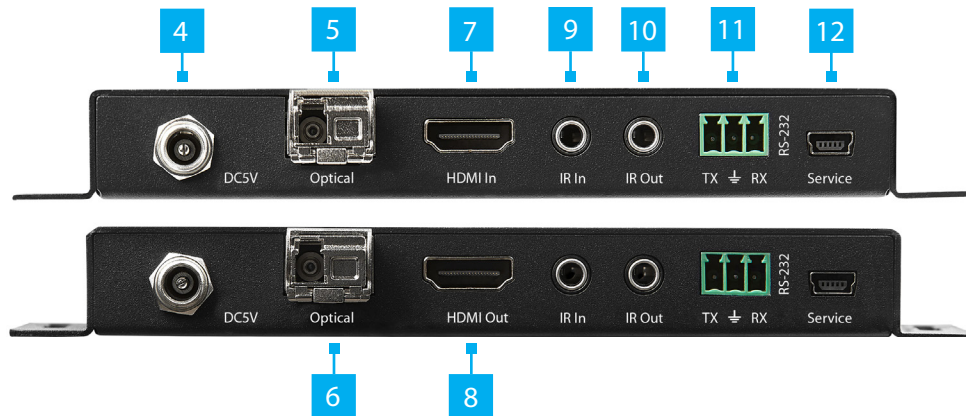
## HDMI over Fiber Optic Extender - 4K 60Hz

### Product Diagram (ST121HD20FXA)

Transmitter (Top) and Receiver (Bottom) Front View



Transmitter (Top) and Receiver (Bottom) Rear View



Component	Function
1 Power LED Indicator	• <b>Transmitter and Receiver: Solid Red</b> when the <b>Universal Power Adapter</b> is connected
2 Optical Signal LED Indicator	• <b>Transmitter and Receiver: Solid Green</b> when the <b>Transmitter and Receiver</b> establish an optical link

3	HDMI Signal LED Indicator	<ul style="list-style-type: none"> <li>• <b>Transmitter: Solid Green</b> when an <b>HDMI Source Device</b> is connected to the <b>HDMI Input Port</b></li> <li>• <b>Receiver: Solid Green</b> when an <b>HDMI Display Device</b> is connected to the <b>HDMI Output Port</b></li> </ul>
4	DC 5V Port	• <b>Transmitter and Receiver: Power the Transmitter and Receiver</b>
5	Optical Output Port	<ul style="list-style-type: none"> <li>• Connect to the <b>Receiver</b> with a <b>Single or Multi Mode Fiber Optic Cable</b></li> <li>• Removable</li> </ul>
6	Optical Input Port	<ul style="list-style-type: none"> <li>• Connect to the <b>Transmitter</b> with a <b>Single or Multi Mode Fiber Optic Cable</b></li> <li>• Removable</li> </ul>
7	HDMI Input Port	• Connect an <b>HDMI Source Device</b>
8	HDMI Output Port	• Connect an <b>HDMI Display Device</b>
9	IR Input Port	• Connect the <b>IR Blaster</b> or <b>IR Receiver</b> for bi-directional infrared control of the <b>HDMI Source and Display Devices</b>
10	IR Output Port	• Connect the <b>IR Blaster</b> or <b>IR Receiver</b> for bi-directional infrared control of the <b>HDMI Source and Display Devices</b>
11	Serial Terminal Block	• <b>Transmitter and Receiver: Connect a Serial Cable to the Terminal Block</b> for bi-directional <b>Serial Extension</b>
12	Service Port	• <b>Transmitter and Receiver: For manufacturer use only</b>

### Requirements

- HDMI Source Device x 1
- HDMI Display Device x 1
- HDMI M/M Cables (sold separately) x 2
- Single Mode Fiber Optic Cable up to 3300 Feet (sold separately) x 1
- Multi Mode Fiber Optic Cable up to 1000 Feet (sold separately) x 1
- (Optional) Adhesive Pads x 4

For the latest requirements and to view the full User Manual, please visit [www.startech.com/ST121HD20FXA](http://www.startech.com/ST121HD20FXA).

# Installation

**Note:** Ensure the **HDMI Display Device** and the **HDMI Source Device** are powered off before you begin the installation.

1. Connect an **HDMI Cable** (sold separately) to the **HDMI Output Port** on the **HDMI Source Device** and to the **HDMI Input Port** on the **Transmitter**.
2. Connect a **Single** or **Multi Mode Fiber Optic Cable** to the **Optical Output Port** on the **Transmitter** and to the **Optical Input Port** on the **Receiver**.
3. Connect an **HDMI Cable** (sold separately) to the **HDMI Output Port** on the **Receiver** and to an **HDMI Input Port** on the **HDMI Display Device**.
4. Connect the **Universal Power Adapter** to an available **Power Source** and to the **Power Adapter Port** on the **Transmitter** and the **Receiver**.
5. Power on the **HDMI Display Device** and the **HDMI Source Device**.

## 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 [A] est conforme à la norme NMB-003 du Canada.

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

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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## Warranty Information

This product is backed by a two-year warranty.

For further information on product warranty terms and conditions, please refer to [www.startech.com/warranty](http://www.startech.com/warranty).

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## Safety Measures

- If product has an exposed circuit board, do not touch the product under power.

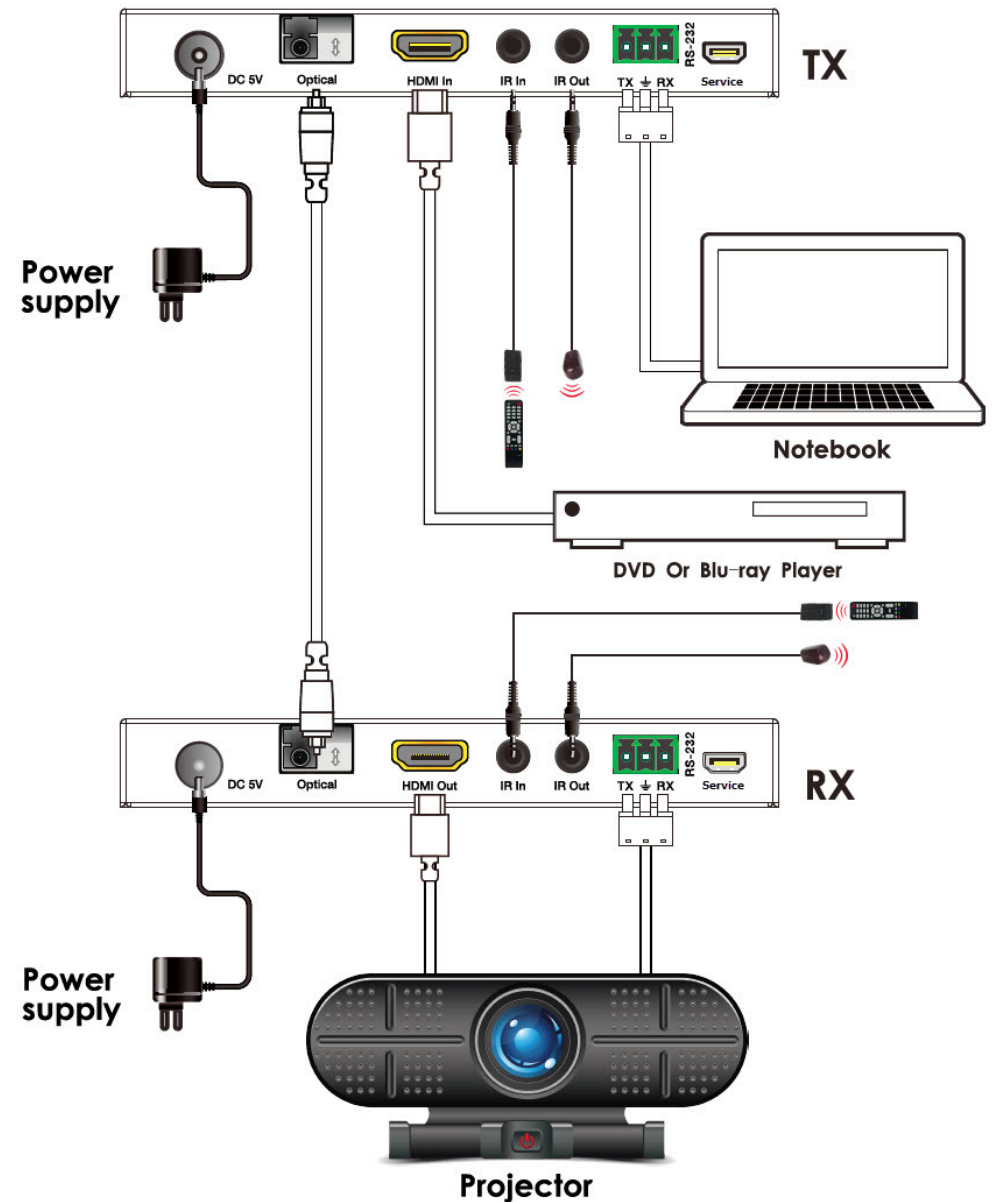
## Mesures de sécurité

- Si l'un des circuits imprimés du produit est visible, ne pas touchez le produit lorsqu'il est sous tension.

## 安全対策

- 製品に露出した状態の回路基盤が含まれる場合、電源が入っている状態で製品に触らないでください。

# Connection Diagram



## Misure di sicurezza

- Se il prodotto ha un circuito stampato visibile, non toccare il prodotto quando è acceso.

## Säkerhetsåtgärder

- Rör aldrig vid enheter med oskyddade kretskort när strömmen är påslagen.

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