

IMPORTANT:
Go to www.extron.com for the complete user guide, installation instructions, and specifications.

XTP FT HD 4K and XTP FR HD 4K • Setup Guide

CLASS 1 LASER PRODUCT, see the *XTP FT HD 4K and XTP FR HD 4K User Guide* at www.extron.com.

The XTP FT HD 4K is an XTP® transmitter and the XTP FR HD 4K is an XTP receiver for video, audio, bidirectional control, and Ethernet transmission over a fiber optic cable. This guide provides instructions for an experienced installer to install and connect the XTP FT HD 4K and XTP FR HD 4K.

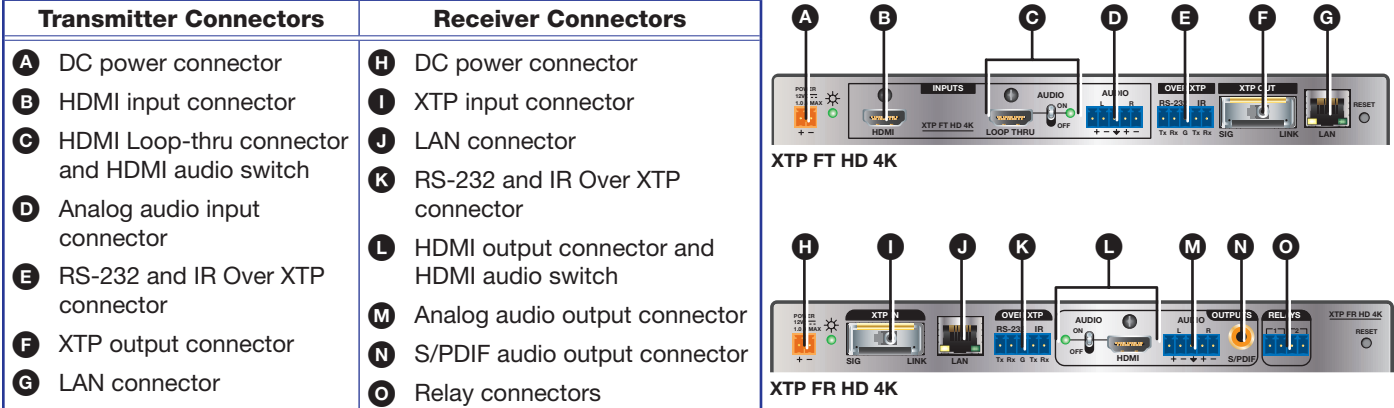


Figure 1. Rear Panel Connectors

Installation

Step 1 – Mount the Devices

Turn off or disconnect all equipment power sources and mount the transmitter and receiver on a tabletop or in a rack.

Step 2 – Connect Inputs

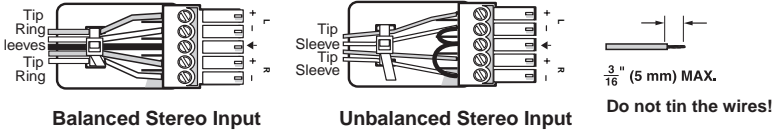
- a. Connect a digital video source to the female HDMI connector (see figure 1, **B**) on the transmitter. It accepts HDMI, DVI (with an appropriate adapter), or dual mode DisplayPort video signals.

NOTES:

- Use an Extron LockIt® lacing bracket to secure HDMI cables to the rear panel connectors.
- Video input from a DisplayPort source must be a dual mode DisplayPort source.

- b. Connect a digital video display to the HDMI Loop-thru connector (**C**) on the transmitter to locally display the input source. A display that is not HDCP-compliant displays a green screen when HDCP-encrypted content is sent to it.

- c. Connect balanced or unbalanced stereo audio to the 3.5 mm, 5-pole captive screw connector (**D**).



Step 3 – Connect Throughput Devices

- a. Connect a fiber optic cable between the XTP connectors on the transmitter (**F**) and receiver (**I**).

WARNING: Potential risk of severe injury. The XTP FT HD 4K and XTP FR HD 4K output continuous invisible light (class 1 rated), which may be harmful to the eyes; use with caution.

AVERTISSEMENT : Risque potentiel de blessure grave ou de mort. Le XTP FT HD 4K et XTP FR HD 4K émet une lumière invisible en continu (conforme à la classe 1) qui peut être dangereux pour les yeux, à utiliser avec précaution.

- Do not look into the fiber optic cable connectors or into the fiber optic cables themselves.
- Ne regardez pas dans les connecteurs de câble fibre optique sur le ou dans les câbles fibre optique eux-mêmes.
- Plug the attached dust caps into the optical transceivers when the fiber optic cable is unplugged.
- Branchez la protection contre la poussière dans l'ensemble émetteur/récepteur lorsque le câble fibre optique est débranché.

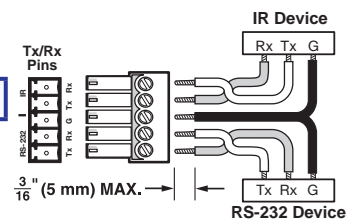
Signal LED indicator — Lights green on the transmitter when it is transmitting a video signal or test pattern. Lights green on the receiver when it receives an active XTP input signal from a transmitter or matrix switcher.

Link LED indicator — Lights yellow when a valid link between an XTP input and output is established.

- b. To pass bidirectional serial, infrared, or other control signals, connect a control device or a device to be controlled to the RS-232 and IR Over XTP connector (E and K).

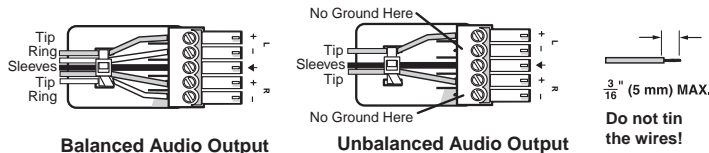
NOTE: RS-232 and IR data can be transmitted simultaneously. The ground pole is shared.

- c. Connect a host device or control LAN or WAN to the LAN RJ-45 connector (G and J) for pass-through 10/100 Ethernet communication. The LEDs indicate link and activity status.



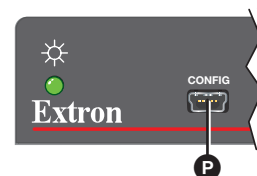
Step 4 – Connect Outputs

- a. Connect a digital video display to the HDMI output connector (L) on the receiver.
- b. Connect a balanced or unbalanced, stereo or mono audio device to the 3.5 mm, 5-pole captive screw connector (M) on the receiver for 2-channel stereo analog audio.
- c. Connect an audio device to the female orange RCA connector (N) for digital S/PDIF audio output.



Step 5 – Connect Control Devices, Relays, and Power

- a. Connect a host device, such as a computer, to the front panel female USB mini-B connector (see P to the right) of the transmitter or receiver to configure the device or update firmware.
- b. Connect the equipment controlled via momentary or latching contact, like projector screens or lifts, to these normally open relays (O). Do not exceed 24 V at 1 A for each port.
- c. Connect the provided external power supply to the 2-pole captive screw connector (A and H).



Operation

After all transmitters, receivers, and connected devices are connected and powered on, the system is fully operational.

NOTE: Use the Extron XTP System Configuration Software or SIS commands to configure the transmitter or receiver (see the *XTP FT HD 4K and XTP FR HD 4K User Guide* on the Extron [website](http://www.extron.com)).

HDMI Audio Switch

On either device, move and hold (for about 1 second) the HDMI audio switch (C and L) up to enable embedded audio on a display connected to the associated HDMI connector or down to disable it. The switch returns to the middle position after it has been released. The associated LED lights when audio is enabled and remains unlit when audio is disabled.

Indicators

Power LED – Lights on the front and rear panel when power is applied to the device.

Transmitter indicators

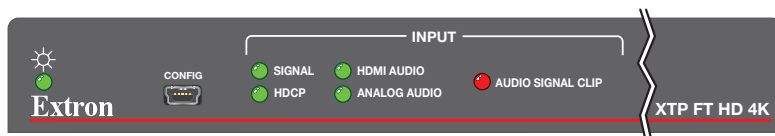
Signal LED – Lights when an active TMDS clock signal is detected from the source.

HDCP LED – Lights when the input signal is encrypted.

HDMI Audio LED – Lights when the HDMI input audio is selected in auto-switch mode or through SIS commands.

Analog Audio LED – Lights when the analog audio input is selected in auto-switch mode or through SIS commands.

Audio Signal Clip LED – Lights red when the analog audio input signal remains above -3 dBFS. It remains lit for 200 ms after the signal falls below -3 dBFS.



Receiver indicators

Signal LED – Lights when an active XTP signal is received.

HDCP LED – Lights when the input XTP signal is encrypted.

HBR LED – Lights when the embedded audio signal is high bit rate audio.

HDMI LED – Lights when the input audio format is multi-channel, LPCM-2Ch, or Hi-Def audio.

Bitstream LED – Lights when the input audio signal is Dolby Digital, DTS audio format and 2-ch Dolby.

S/PDIF LED – Lights when the input audio format is multi-channel (except HBR) or LPCM-2Ch.

LPCM LED – Lights when the input audio signal is LPCM-2Ch.

Analog LED – Lights when the input audio format is analog audio.

