

# FXT-460

## 4K HDMI 2.0 Fiber Optic Extender



**Sender**



**Receiver**

- 4K x 2K @ 60 Hz 4:4:4 / 18.2 Gbps / HDCP 2.2
- Extends up to 33,000 ft (10 Km) over single mode or 1000 ft (300 M) Multi-Mode
- Bi-Directional RS-232 and EDID Management
- Can pass original HDMI audio or embed/substitute audio from external inputs
- "HDMI Audio Bridging"
- HDMI Loop Output on Sender
- De-embedded HDMI audio available at both ends (Sender and Receiver)
- EDID Emulation with LEARN function

The Hall Research FXT-460 is a compact and high-performance extender for full-bandwidth HDMI 2.0 audio/video with HDR, up to 10 Kilometers, over a single strand of LC-terminated fiber-optic cable. The product supports 18.2 Gbps of bandwidth and 600 MHz TMDS Clock frequency and can extend 4K / 60 Hz video with multi-channel audio and RS232.

The system provides advanced capabilities such as embedding and de-embedding audio, 4K UHD video (4:4:4 with HDR), HDCP 2.0, bidirectional RS-232 and EDID management.

# Specifications

Video Standards	DVI (single link) HDMI 1.4 and HDMI 2.0b including 12 bit color depth, 3D video and HDCP 2.2
Connectors	FXT-460-S (1) HDMI Input (1) HDMI Output (1) 3.5 mm L/R Audio Output (1) TOSLINK Audio Output (1) Fiber Optic Simplex LC Bidirectional SFP Transmitter  FXT-460-R (1) HDMI Output (1) 3.5 mm L/R Audio Output (1) TOSLINK Audio Output (1) Fiber Optic SFP Simplex LC Bidirectional SFP Receiver
Resolutions	DVI signal      VGA (640x480) thru WUXGA (1920x1200) HDTV signal    480p through 4K 60 Hz 4:4:4
Audio Formats	LPCM 2 CHN Audio (32, 44.1 and 48 KHz sample rate) Digital Audio multi-channel 2.1, 5.1, 7.1
Other Signals	RS-232 (1) RX, TX and GND on Terminal Strip RS-232 Baud Rate: 115200, N, 8, 1
General	Power Supply    100 VAC to 240 VAC, 47-63 Hz, External; 12 VDC 1.0 ADC Temp/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing
Enclosure type	Metal (Steel)
Dimensions	Device (ea.):    0.9" H x 5.4" W x 3.1" D (23 mm H x 136 mm W x 79 mm D) 4.0" H x 12.0" W x 10" D (102 mm H x 305 mm W x 254 mm D)
Shipping:	Device (ea.)    0.75 lb (0.34 Kg)
Product weight	2.10 lb (0.95 Kg)
Shipping (ea.)	CE
Safety	CE, FCC Class A
EMI/EMC	90,000 hours (estimate)
MTBF	