

# HFX 100

## HDMI FIBER OPTIC EXTENDER

- ▶ Transmits HDMI video and embedded multi-channel digital audio signals up to 300 meters (984 feet) over one multimode fiber optic cable
- ▶ Supported HDMI specification features include data rates up to 6.25 Gbps, 12-bit Deep Color, HD lossless audio formats, & CEC
- ▶ HDCP compliant
- ▶ All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, and HDTV 1080p/60 and 2K
- ▶ Supports DDC transmission
- ▶ Integrated ultra-flexible HDMI cable
- ▶ 1U high, one-eighth rack width metal enclosures
- ▶ Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- ▶ Compatible with 2LC OM4 MM P pre-terminated fiber optic cable assemblies from Extron



The Extron HFX 100 Fiber Optic Extender is a transmitter and receiver set that provides extension of HDCP-compliant HDMI and embedded multi-channel digital audio signals long distances over one fiber optic cable. Housed in compact enclosures, the HFX 100 is ideal for discreet installation into a wide range of applications that require long distance transmission of high resolution content with the highest quality.



**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

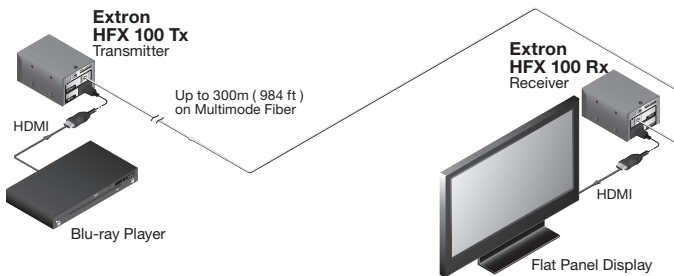
The Extron **HFX 100** Fiber Optic Extender is a compact transmitter and receiver set that provides extension of HDCP-compliant HDMI signals long distances over one fiber optic cable. Engineered for reliability and exceptional high resolution image performance, it uses all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60 and 2K. The HFX 100 extends HDMI signals up to 300 meters (984 feet) over one multimode fiber optic cable.

The transmitter and receiver are housed in 1U high, one-eighth rack width enclosures for convenient, discreet installation. To simplify integration, attached ultra-flexible HDMI cables allow for direct connection to source and display. The transmitter and receiver feature industry standard LC-type connectivity for fiber connections. Pre-terminated multimode fiber optic cable assemblies from Extron are available in a variety of lengths from one meter (3.3 feet) to 60 meters (197 feet).

## FEATURES

- ▶ Transmits HDMI video and embedded multi-channel digital audio signals up to 300 meters (984 feet) over one multimode fiber optic cable
- ▶ Supported HDMI specification features include data rates up to 6.25 Gbps, 12-bit Deep Color, HD lossless audio formats, and CEC
- ▶ HDCP compliant
- ▶ All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60 Deep Color & 2K
- ▶ Supports DDC transmission

## APPLICATION DIAGRAM



## SPECIFICATIONS

**NOTE:** These devices are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21 CFR 1040.10, and FDA 21 CFR 1040.11

OPTICAL FIBER INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER		
Number/type	1 fiber optic, multimode (OM3 or OM4 fiber recommended)	
Connectors	1 LC connector	
Operating distance	300 m	
Nominal peak wavelength	850 nm (multimode)	
Data rate	6.25 Gbps	
Transmission power		
Multimode	-5 dBm, typical	
Maximum receiver sensitivity		
Multimode	-12 dBm, typical	
Optical loss budget		
Multimode	8 dB, maximum	
VIDEO		
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz pixel for pixel @ 36 bit color depth	
Formats	RGB, YCbCr, and xvYCC digital video	
EDID	Pass through from Rx unit to Tx unit	
HDCP	Pass through	
Standards	DVI 1.0, HDMI, CEA-861E	
VIDEO INPUT — TRANSMITTER		
Number/signal type	1 single link HDMI	
VIDEO OUTPUT — RECEIVER		
Number/signal type	1 single link HDMI	
GENERAL		
Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts	
Power consumption		
Transmitter	12 VDC, 220 mA, 2.5 W	
Receiver	12 VDC, 175 mA, 2.1 W	
Cooling	Convection, no vents	
Thermal dissipation		
Transmitter	8.0 BTU/Hr	
Receiver	6.8 BTU/Hr	
Enclosure type	Metal	
Enclosure dimensions	1.7" H x 2.2" W x 3.0" D (1 U high, one-eighth rack wide) (4.2 cm H x 5.6 cm W x 7.6 cm D) (Depth excludes connectors.)	
Regulatory compliance		
Safety	CE, c-UL, UL	
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI	
Environmental	Complies with the appropriate requirements of RoHS, WEEE	
Warranty	3 years parts and labor	
<b>NOTE:</b> All nominal levels are at $\pm 10\%$ .		
Model	Version Description	Part number
HFX 100 Tx	HDMI Fiber Optic Transmitter	60-1277-12
HFX 100 Rx	HDMI Fiber Optic Receiver	60-1277-13

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

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