

## TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI 1.4 and HDCP Compliant
HDTV Resolutions	480p, 720p, 1080i, 1080p @ 60 Hz/48bit, 4Kx2K @ 30 Hz
Standard TV Resolution	480i
Refresh Rate	Up to 130 Hz
Wavelength	850 nm
Bit Error Rate Performance	1.00E-12
Input Interface (TX)	HDMI Type A19-pin Female TMDS
Output Interface (RX)	HDMI Type A19-pin Female TMDS
Input Cable Length (TX)	Up to 40 ft.
Output Cable Length (RX)	Up to 40 ft.

AUDIO	
Format	Dolby TrueHD, DTS-HD MA
Input Interface	HDMI (Integrated)
Output Interface	HDMI (Integrated)

SYSTEM	
Interface	LC-Type Fiber Optic Cable Connector
Cable Requirements	Multimode, OM3
Maximum Length	1,000 feet (300 meters)
Laser Output Power	Class 1; EN 60825-1 2007; EN 60825-2 A2 2010

OTHER	
Power	External 5VDC2A @10W
Dimensions	1.125"H x 5"W x 4.125"D
Weight	1 lb
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131 °F (0-55 °C)
Storage Temp.	-4-185 °F (-20-85 °C)
Humidity	Up to 95%

# Touchboards

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Designed and Manufactured in the USA

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[SmartAVI.com](http://SmartAVI.com)

# Smart-AVI

SMART AUDIO VIDEO INNOVATION

## HFX



## 4K HDMI Extender over Fiber Optic Cables

Extend uncompressed HDMI signals up to  
 1,000 feet over multimode fiber optic  
 cabling, with resolutions up to 4K Ultra

[USER MANUAL](#)

## INTRODUCTION

For reliable, uninterrupted and long-distance HDMI extension, the HFX provides the best solution with its fiber optic extension capabilities. Users can bridge large gaps that they ordinarily could not with this compact device. The HFX includes the transmitter and receiver, for complete point-to-point signal extension, with no need for any other hardware or software.

The HFX delivers uncompressed HDMI signals up to 1,000 feet (300 meters). Supported resolutions go up to 4K Ultra HD (@30Hz), and 3D HD video is also supported. As with all HDMI connections, high-quality digital audio is also transmitted via the extender.

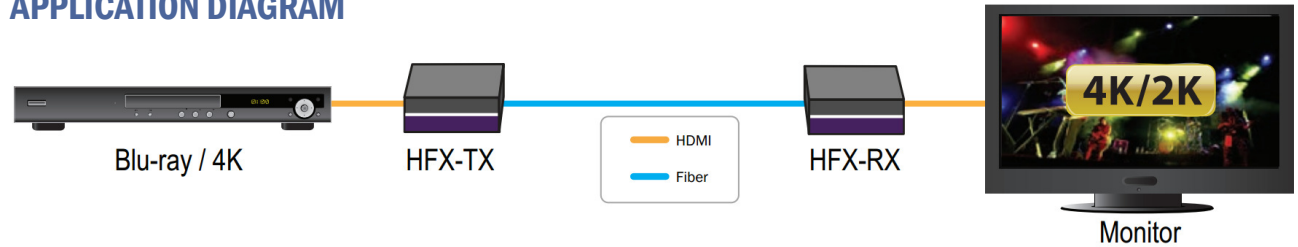
## FEATURES

- Supports HDMI 1.4a
- HDCP Compliant
- Extends HDMI signals up to 1,000 feet at 10.3Gbps with OM3 multimode duplex fiber optic cabling
- Supports resolutions up to 4K Ultra HD (@ 30Hz)
- Hot Pluggable
- EMI/RFI Resistant
- LC Type Fiber Optic Connector
- Plug-and-Play
- Quick and Easy Setup

## WHAT'S IN THE BOX?

PART NO.	DESCRIPTION
HFX-S	HDMI Point to Point Fiber Extender, Includes:[HFX-TX, HFX-RX, 2 x (PS5VD2A)]

## APPLICATION DIAGRAM



## APPLICATIONS

- Home Theater
- Corporate/Educational Presentations
- Call Centers
- Industrial (Long-Range Workstation Isolation)
- Information Terminals/Kiosks
- Airport Installations (Air Traffic Control/ Passenger Information)
- Educational Environments with Remote Displays
- Medical Campuses (Remote Operation Away from Sensitive/Magnetic Equipment)
- Recording Studios
- Financial (Remote Servers/User Control)

## CONNECTING THE HFX

1. Power off all devices including the HDMI source and display.
2. Connect an HDMI cable from the HDMI source to the HDMI port on the HFX-TX (transmitter).
3. Connect the HFX-TX to the HFX-RX (receiver) using a multimode duplex fiber optic cable (up to 1,000 ft.) with LC type connectors on both ends.
4. Connect an HDMI cable from the HDMI port on the HFX-RX to the HDMI Display.
5. Power on the HFX transmitter and receiver by plugging in their power adapters (5VDC2A).
6. Power on the HDMI source and the display.



**HFX (TX/RX) Front**



**HFX (TX/RX) REAR**