

HFX-UX-PRO

UHD 4K60 HDMI FIBER EXTENDER
WITH KM, USB 2.0, SERIAL, AND
BIDIRECTIONAL AUDIO



**EXTEND DIGITAL VIDEO HDMI 4K@60HZ, USB 2.0, USB KEYBOARD/MOUSE, RS-232,
SERIAL AND BIDIRECTIONAL AUDIO UP TO 2 KM OVER A SINGLE FIBER UNCOMPRESSED**

KEY FEATURES

- Supports HDMI video up to 3840 x 2160 @ 60 Hz
- Uncompressed Video
- Supports EDID Emulation
- Transparent USB 2.0 Extension
- Separate USB KM Extension with Emulation
- Supports Bidirectional Stereo Audio
- Supports Single-Mode (2km) and Multimode Fiber 1000ft
- Compatible with Windows, Mac and Linux Operating Systems

APPLICATIONS

- Data Center Server Management
- Remote Server Administration
- Network Operations Control
- IT Infrastructure Management
- Lab and Test Environments
- Broadcast and Media Control
- Cloud Services Maintenance
- High-Performance Computing Management
- Security and Surveillance Centers

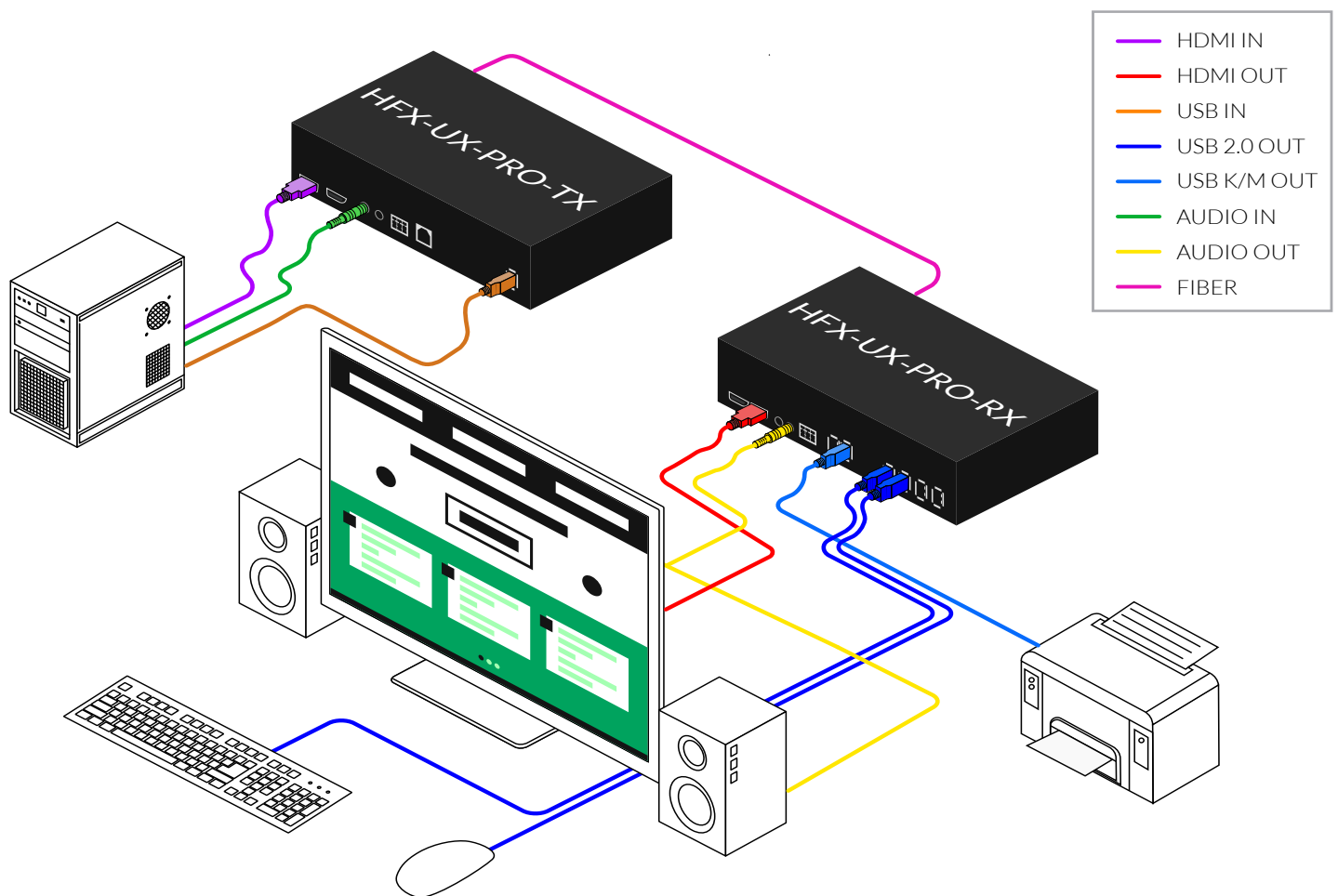


Designed and Manufactured in the USA

OVERVIEW

The HFX-UX-PRO revolutionizes high-definition signal extension by delivering UHD 4K60 (3840 x 2160) video, full USB 2.0, keyboard-mouse, serial, and bidirectional audio over significant distances up to 2 km (1.24 miles) via a single-mode fiber. This is achieved through an innovative single fiber cable connection, surpassing the limitations of traditional HDMI extenders that demand specialized dual fiber cables.

Marking a significant leap forward, the HFX-UX-PRO is the premier extender in its class to integrate 4K60 video resolution support, full USB 2.0, and comprehensive KVM functionality into a unified system. This system is tailored for UHD displays, ensuring a pristine, ultra-high-definition experience ideal for precision tasks.



EXTEND FOR ANY APPLICATION IN ANY ENVIRONMENT

The HFX-UX-PRO enhances remote workstation management by extending keyboard and mouse signals, facilitating seamless and efficient workflow management. Its local output capability on both the transmitter and receiver ensures flexible installation and monitoring options. Moreover, this extender maintains continuous emulation at the transmission point, safeguarding against unintended disconnections or disruptions critical in operations demanding high reliability.

Featuring transparent USB 2.0 extension and SmartAVI Ultra Low Latency technology, the HFX-UX-PRO is engineered for immediate responsiveness and compatibility with various operating systems, including Windows, Mac, and Linux. Whether for extending control in data centers, facilitating high-quality video in broadcasting, or enabling collaborative environments in conference rooms, the HFX-UX-PRO stands as the optimal solution for extending HDMI and USB over long distances with unmatched clarity and performance.

EXTENDER UNITSMENT



HFX-UX-PRO-TX Front



HFX-UX-PRO-RX Front



HFX-UX-PRO-TX Back



HFX-UX-PRO-RX Back

TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI2.0
Video Resolution	Resolution: UHD 3840 x 2160 @ 60Hz Color Depth: 24-bit color depth
Video Bandwidth	Single-link 340 MHz (10.2 Gbps)
Input Interface (TX)	(1) HDMI 19-pins (female) (1) HDMI 19-pins (female) (LOOP)
Output Interface (RX)	(1) HDMI 19-pins (female) (1) HDMI 19-pins (female) (LOOP)
Max Output Distance	Up to 10 ft
Equalization	Automatic
Input TMDS Signal	1.2 Volts [peak-to-peak]
Input DDC Signal	5 Volts [peak-to-peak, TTL]
Data Rate	1.65 Gbps per color

AUDIO	
Format	Integrated HDMI Audio / Bidirectional Audio
Input Interface	Integrated HDMI / 3.5mm Bidirectional Audio
Output Interface	Integrated HDMI / 3.5mm Bidirectional Audio

USB	
Input Interface (TX)	(1) USB Type B
Output Interface (RX)	(2) USB 1.1 Type A for KM Devices; (4) USB 2.0 Type A Transparent
Keyboard and mouse	Keyboard and mouse emulation

SYSTEM	
Fiber Interface & Type	Single-Mode LC-LC Fiber
Cable Requirements	Single LC Fiber
Maximum Length	Single mode: 2 km (1.2 miles) Multi mode: 300 m (1000 feet)

OTHER	
Power	100-240 VAC / 12VDC @ 3A/15W
Dimensions	9.5" W x 1.7" H x 8.6" D
Weight	3.6 lb (1.8 lbs per unit)
Approvals	UL, CE, ROHS Compliant
Environmental Operating Temperature	+32 to +104°F (0 to +40°C)
Environmental Operating Humidity	20% to 80% (non condensing)
Storage Temperature	-4 to 140°F (-20 to +60°C)
Storage Humidity	Up to 95% (No Condensation)
Compliance EMC	FCC (Class A), CE (Class A), ICES-003
Environmental Compliance	RoHS2 (CE)
Support Warranty	1-year

PART NO.	DESCRIPTION
HFX-UX-PRO-S	HDMI, KM, USB 2.0, Audio, & Serial via Single Fiber Extender. Includes: [HFX-UX-PRO-TX-S, HFX-UX-PRO-RX-S, 2 X (PS12VD3A)]
HFX-UX-PRO-TX-S	HDMI, KM, USB 2.0, Audio, & Serial via Single Fiber Transmitter. Includes: [HFX-UX-PRO-TX-S, PS12VD3A-WLLMNT]
HFX-UX-PRO-RX-S	HDMI, KM, USB 2.0, Audio, & Serial via Single Fiber Receiver. Includes: [HFX-UX-PRO-RX-S, PS12VD3A-WLLMNT]