TECHNICAL SPECIFICATIONS

VIDEO

Format	HDMI2.0
Video Resolution	Resolution: UHD 3840 x 2160 @ 60Hz Color Depth: 24-bit color depth
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

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

AUDIO

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

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
Operating Temp.	+32 to +104°F (0 to +40°C)
Storage Temp.	-4 to 140°F (-20 to +60°C)
Operating Humidity	20% to 80% (non condensing)
Storage Humidity	Up to 95%
Compliance EMC	FCC (Class A), CE (Class A), ICES-003
Environmental Compliance	RoHS2 (CE)
Support Warranty	1-year

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
HFX-UX-PRO-S	1	HDMI, KM, USB 2.0, Audio, & Serial via Single Fiber Extender
HFX-UX-PRO-TX-S	1	HDMI, KM, USB 2.0, Audio, & Serial via Single Fiber Transmitter
HFX-UX-PRO-RX-S	1	HDMI, KM, USB 2.0, Audio, & Serial via Single Fiber Receiver
PS12VDC2A	1	12VDC 2A (minimum) power adapter with center-pin positive polarity.
Quick Start Guide		

NOTICE

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

HFX-UX-PRO

UHD 4K60 HDMI Fiber

UHD 4K60 HDMI Fiber Extender
with KM, USB 2.0, serial, and Bidirectional Audio

Quick Start Guide

A full Manual can be downloaded from www.smartavi.com/HFX-UX-PRO

ABOUT

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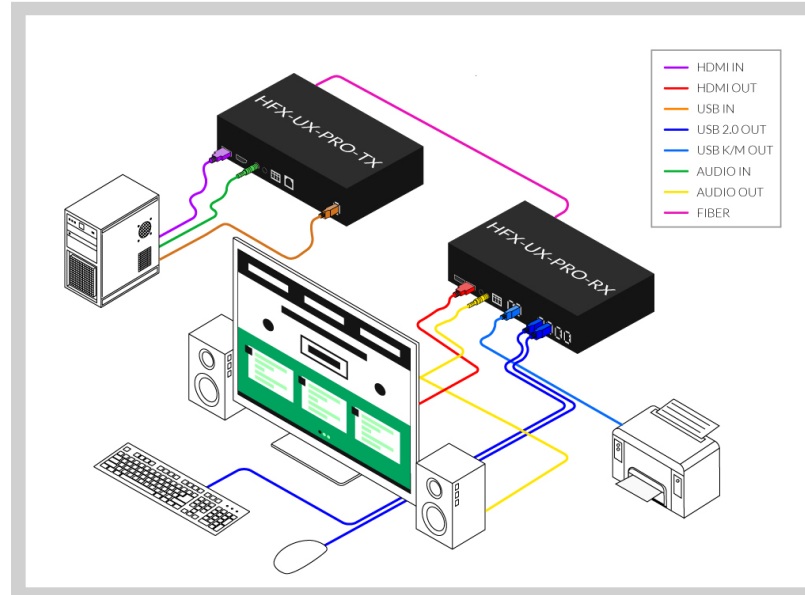
Marking a significant leap forward, the HFX-UX-PRO is the premier extender in its class to integrate 4K60 video resolution support, full USB 2.0, and comprehensive KVM functionality into a unified system. This system is tailored for UHD displays, ensuring a pristine, ultra-high-definition experience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

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

HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the units and the computers.
2. Use an fiber optic cable to connect between the RS232 ports of the HFX-UX-PRO-TX and the HFX-UX-PRO-RX.
3. Use a HDMI cable to connect the HDMI output port from each computer to the corresponding HDMI Input port of the HFX-UX-PRO-TX.
4. Use a USB cable (Type-A to Type-A) to connect a USB port on each computer to the respective USB port of the HFX-UX-PRO-TX.
5. Optionally connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the Audio Input port of the HFX-UX-PRO-TX.
6. Connect a monitor to the HDMI Out console port of the HFX-UX-PRO-RX using a HDMI cable.
7. Connect a USB keyboard and mouse and the USB devices in the four USB ports of the HFX-UX-PRO-RX.
8. Optionally connect stereo speakers to the Audio Out port of the HFX-UX-PRO-RX.
9. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

—	HDMI IN
—	HDMI OUT
—	USB IN
—	USB 2.0 OUT
—	USB K/M OUT
—	AUDIO IN
—	AUDIO OUT
—	FIBER

HFX-UX-PRO-TX Front

HFX-UX-PRO-TX Back

HFX-UX-PRO-RX Front

HFX-UX-PRO-RX Back