

HFX-UX-PRO

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



USER MANUAL



Designed and Manufactured in the USA

Smart-AVI
SMART AUDIO VIDEO INNOVATION

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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
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
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)

WHAT'S IN THE BOX?

PART NO.	Q-TY	DESCRIPTION
HFX-UX-PRO-S	1	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]
PS12VDC2A	1	12VDC 2A (minimum) power adapter with center-pin positive polarity.

FRONT AND BACK



HFX-UX-PRO-TX Front



HFX-UX-PRO-RX Front



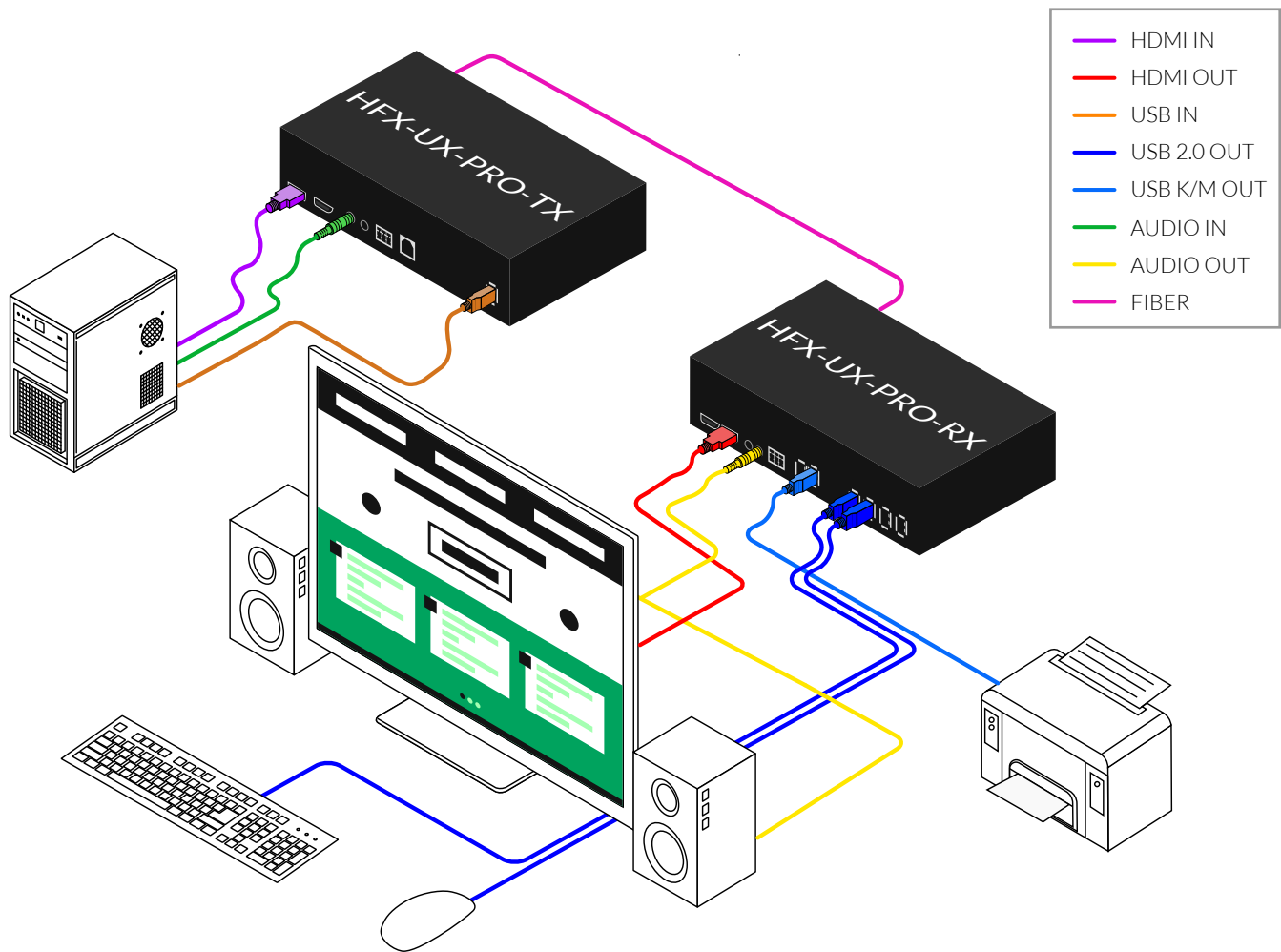
HFX-UX-PRO-TX Back



HFX-UX-PRO-RX Back

INSTALLATION

Refer to the following steps and diagram to set up your KVM extender installation.



1. Ensure that power is turned off or disconnected from the units and the computers.
2. Use a 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 5VDC power supply to the power connector, and then turn on all the computers.

TROUBLESHOOTING

No Power

- Make sure that the power adapter is securely connected to the power connector of the unit.
- Check the output voltage of the power supply and make sure that the voltage value is around 12VDC.
- Replace the power supply.

No Video

- Check if all the video cables are connected properly.
- Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
- Restart the computers.

Keyboard is not working

- Check if the keyboard is properly connected to the unit.
- Check if the USB cables connecting the unit and the computers are properly connected.
- Try connecting the USB on the computer to a different port.
- Make sure that the keyboard works when directly connected to the computer.
- Replace the keyboard.

Mouse is not working

- Check if the mouse is properly connected to the unit.
- Try connecting the USB on the computer to a different port.
- Make sure that the mouse works when directly connected to the computer.
- Replace the mouse.

No Audio

- Check if all the audio cables are connected properly.
- Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
- Check the audio settings of the computer and verify that the audio output is through the speakers.

TECHNICAL SUPPORT

For product inquiries, warranty questions, or technical questions, please contact info@smartavi.com.

LIMITED WARRANTY STATEMENT

A. Extent of limited warranty

SmartAVI, Inc. warrants to the end-user customers that the SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.

SmartAVI limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- a. Improper or inadequate maintenance or modifications
- b. Operations outside product specifications
- c. Mechanical abuse and exposure to severe conditions

If SmartAVI receives, during applicable warranty period, a notice of defect, SmartAVI will at its discretion replace or repair defective product. If SmartAVI is unable to replace or repair defective product covered by the SmartAVI warranty within reasonable period of time, SmartAVI shall refund the cost of the product.

SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

SmartAVI limited warranty is valid in any country where the covered product is distributed by SmartAVI.

B. Limitations of warranty

To the extent allowed by local law, neither SmartAVI nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the SmartAVI product, and specifically disclaim implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

C. Limitations of liability

To the extent allowed by local law the remedies provided in this warranty statement are the customers sole and exclusive remedies.

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will SmartAVI or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

D. Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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