

## TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI2.0
Video Resolution	Resolution: high definition 3840 x 2160 Color Depth: 24-bit color depth Latency: less than 1 ms
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	Supports bandwidths up to 18 Gbps
USB	
Input Interface (TX)	(1) USB Type B
Output Interface (RX)	(2) USB 1.1 Type A for KM Devices;
AUDIO	
Format	Stereo
Input Interface	3.5 mm Jack Socket (female)
Output Interface	3.5 mm Jack Socket (female)
SYSTEM	
Extension Type	Fiber (LC-LC Single)
Cable Requirements	Single Fiber
Maximum Length	Single mode: 2 km (1.2 miles)
OTHER	
Power	100-240 VAC/ 12VDC @ 3A/15W
Dimensions	6.4" W x 1.1" H x 3.9" D
Weight	2.65 lbs (1.43 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% (No Condensation)
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-KM-S	1	HDMI, USB, Audio via Single Fiber Extender. Includes: [HFX-KM-TX-S, HFX-KM-RX-S, 2 X (PS12VD1A-DSKTP)]
HFX-KM-TX-S	1	HDMI, USB, Audio via Single Fiber Transmitter. Includes: [HFX-KM-TX-S, PS12VD1A-DSKTP]
HFX-KM-RX-S	1	HDMI, USB, Audio via Single Fiber Receiver. Includes: [HFX-KM-RX-S, PS12VD1A-DSKTP]
PS12VDC2A	1	12VDC 2A (minimum) power adapter with center-pin positive polarity.
Quick Start Guide	1	

## NOTICE

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**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# HFX-KM

## HDMI 2.0 KVM fiber



**Extend HDMI 2.0 4k@60hz  
with USB KM, audio and  
serial up to 2 km over single  
mode fiber uncompressed**

## Quick Start Guide

A full Manual can be downloaded from  
[www.smartavi.com/HFX-KM](http://www.smartavi.com/HFX-KM)

## ABOUT

The HFX-KM is a Single Head HDMI 2.0 (3840 x 2160), USB keyboard-mouse and stereo audio extender, sending signals up to 2 km (1.2 miles) away over a single conventional and inexpensive single fiber cable. This new technology is superior to older HDMI extenders that require a special single fiber shielded cable to go a short distance.

The HFX-KM is the leading extender on the market to feature 3840 x 2160 @ 60 Hz, USB and full KVM extension and emulation on one cohesive system and is optimized for UHD 4K@60Hz monitors with crystal-clear picture; excellent for detail driven work.

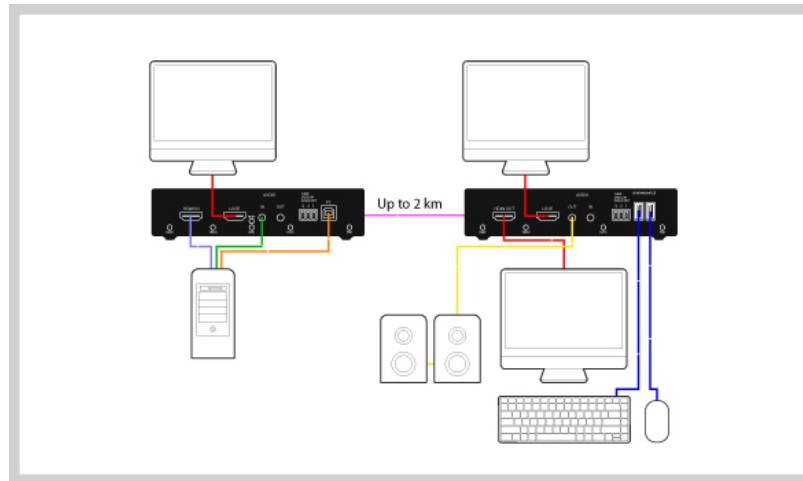
The HFX-KM extends keyboard-mouse signals for remote workflow management and offers uninterrupted emulation from the user's transmitter unit. This uninterrupted emulation prevents accidental disconnection or deactivation issues during mission critical operations. The HFX-KM's unparalleled KVM extension technology makes it the perfect solution for extending servers in applications ranging from data processing to interactive conferencing.

## FEATURES

- Supports resolutions up to 4K Ultra HD (@ 60 Hz)
- USB Keyboard and Mouse extension and emulation
- External power adapter for transmitter and receiver unit
- Supports Stereo Sound
- Compatible with Windows, Mac and Linux Operating Systems
- RS232 Serial Extension
- SmartAVI Ultra Low Latency

## 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-KM-TX and the HFX-KM-RX.
3. Use a HDMI cable to connect the HDMI output port from each computer to the corresponding HDMI Input port of the HFX-KM-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-KM-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-KM-TX.
6. Connect a monitor to the HDMI Out console port of the HFX-KM-RX using a HDMI cable.
7. Connect a USB keyboard and mouse and the USB devices in the four USB ports of the HFX-KM-RX.
8. Optionally connect stereo speakers to the Audio Out port of the HFX-KM-RX.
9. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and then turn on all the computers.



**HFX-KM-TX Front**



**HFX-KM-TX Back**



**HFX-KM-RX Front**



**HFX-KM-RX Back**