TECHNICAL SPECIFICATIONS

VIDEO	
Input Interface	DVI-D Female (Single Link)
Output Interface	DVI-D Female (Single Link)
Max Resolution	1920x1200 @ 60Hz
DDC	Internal Table; Can be reprogrammed
Laser Output Power	Class 1; EN 60825-1 2007; EN 60825-2 A2 2010

OTHER	
RS-232	9600 bps only
USB	USB Keyboard and Mouse ONLY
Fiber Extender	• 738 Feet @ Multimode 62,5µ • 1400 Feet @ Multimode 50µ • Fiber-Plug type LC
Dimensions FDX-MINI-TX	W 4.75” x D 6.25” x H 1.06”
Dimensions FDX-MINI-RX	W 4.75” x D 6.25” x H 1.06”
Weight FDX-MINI-TX	.35 lbs
Weight FDX-MINI-RX	.55 lbs.
Power FDX-MINI-TX	External 100-240 VAC/ 5VDC@4A @ 20W
Power FDX-MINI-RX	External 100-240 VAC/ 5VDC@4A @ 20W

WHAT’S IN THE BOX?

PART NO.	DESCRIPTION
FDX-MINI-TX	FDX-MINI Multimode Transmitter
FDX-MINI-RX	FDX-MINI Multimode Receiver
PS5VD4A	Power Supply 5V 4A (2)

FDX-MINI Receiver

FDX-MINI Transmitter

NOTICE

20160613

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Smart-AVI

SMART AUDIO VIDEO INNOVATION

FDX-MINI

KVM DVI-D Fiber Optic Extender

For the Extension of any DVI-D, USB Keyboard, Mouse, and RS-232 Signal up to 1,400 Feet

USER MANUAL

Designed and Manufactured in the USA

INTRODUCTION

For reliable, uninterrupted and long-distance DVI-D KVM extension, the FDX-Mini provides the best solution with its fiber optic extension capabilities. FDX-MINI enables long-distance transmission of high-resolution DVI-D, USB Keyboard and Mouse, and RS-232 over a conventional and inexpensive multimode fiber optic cable. Users can bridge large gaps that they ordinarily could not with this compact device.

FEATURES

- Top Signal Quality at Maximum Extension Over Multimode Fiber (1,400 ft.)
- Superior Image Quality at all Resolutions
- Video Resolutions up to 1920x1200 at 60Hz Programmable EDID
- Supports USB Keyboard & Mouse
- Supports HDMI Input and Output (with an adapter)
- Supports DVI Output
- Supports RS-232 Control (9600 bps only)
- Fiber Plug Type LC
- Compatible With all Operating Systems
- Compact Metal Casing

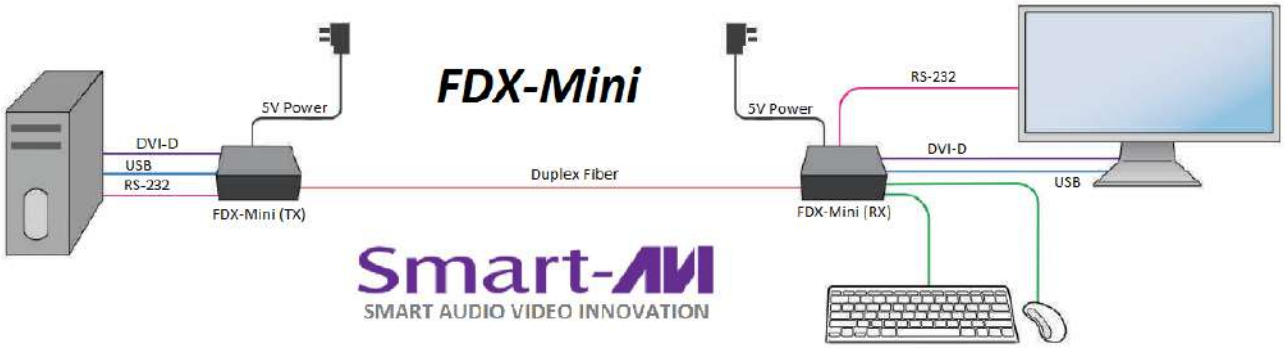
WHY FIBER OPTIC?

SmartAVI has created a full line of fiber optic extender products, understanding that this technology is superior to traditional cabling.

Fiber optic cables are:

- Capable of transmitting over very long distances with no signal loss.
- Immune to electromagnetic interference. In situations where there is considerable interference, fiber optic cabling is the only solution.
- Much more secure because they cannot be easily tapped. For this reason, military and law enforcement agencies use fiber optic cables for the transmission of sensitive data.
- Relatively inexpensive and small enough to be routed through small spaces.

APPLICATION DIAGRAM



CONNECTING THE FDX-MINI

1. Turn off all devices.
2. Connect a multimode fiber optic cable between the **TX** and **RX** (maximum cable length is 1,400 ft.).
3. Connect the DVI-D cable, RS-232 cable (optional), and USB cable from the computer to their appropriate ports on the **TX .**
4. Power on the computer and connect the provided 5VDC power supply to the **TX.**
5. Connect a USB keyboard and Mouse to the USB ports on the **RX**. Note: Only a keyboard and a mouse may be connected to these ports. Connecting other devices to these USB ports may cause damage to the unit. Optionally connect an RS-232 control-enabled device to the DB9 connector on the **RX**.
6. Connect the monitor or display to the DVI-D out of the **RX** and power on the monitor only.
7. Connect the supplied 5VDC power supply to the **RX**.

NOTE: The FDX-MINI is HDMI compatible. (With DVI to HDMI Adapters)

EDID (Monitor Settings) LEARNING

FDX-MINI is capable of “learning” and remembering what type of display monitor is connected to it. Once everything is connected, during power up, if the EDID stored in the memory of the FDX-MINI does not match the EDID of the monitor connected on the RX, the EDID learning process will start automatically. The learning process may take a few seconds. During this process, the *Status* LEDs on the TX & RX will rapidly flash. Once the LEDs have stopped flashing, the EDID has been learned and stored.

If EDID learning fails or you connect a different monitor to the RX and need to learn a new EDID:

1. Cycle power on the RX. (Un-plug and plug in) This should force EDID learning.
2. If learning still fails, unplug the power for the TX and RX units and connect the monitor to the DVI input port of the TX unit. Power on the monitor. Power on the TX & RX units. The TX Status LEDs should rapidly flash as the EDID is learned and stored. Now re-connect the computer to the TX DVI port and re-connect the monitor to the RX DVI port.