TECHNICAL SPECIFICATIONS

VIDEO	
Input Interface	(2) DVI-D 29-Pin Female
Output Interface	(2) DVI-D 29-Pin Female
Max Resolution	1920x1200 @ 60Hz
DDC	Internal Table; Can be reprogrammed
Format	DVI-D Single-Link

AUDIO	
Input Interface	3.5 mm Stereo Audio
Output Interface	3.5 mm Stereo Audio
Signal Type	Stereo Audio
Frequency Response	20 Hz to 20 KHz
Impedance	600 Ω

OTHER	
RS-232	Data up to 115200bps
USB	USB Keyboard and Mouse ONLY
Fiber Extender	Fiber • 225m @ Single mode 62,5µ • 450m @ Single mode 50µ • Fiber-Plug type LC
Dimensions	4.5”x5.5”x1.70”
Weight	1 lb.
Power	Internal 100-240 VAC

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.

We only use the highest quality fiber optic transceivers

Designed and Manufactured in the USA

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

FDX-S2U

Dual DVI-D Fiber Extender with Audio and USB Keyboard and Mouse

Extends two DVI-D Signals, Audio and USB Keyboard & Mouse up to 10 miles over two Fiber Optic Cables

USER MANUAL

INTRODUCTION

The SmartAVI FDX-S2U is capable of supporting two DVI-D monitors, with USB 1.1 keyboard and mouse, stereo audio with serial (RS-232) control. The system includes a transmitter and receiver, which are connected by two fiber optic cables. The transmitter connects to the user's computer with the necessary cables, while the receiver connects to the remote interface devices up to 10 miles away.

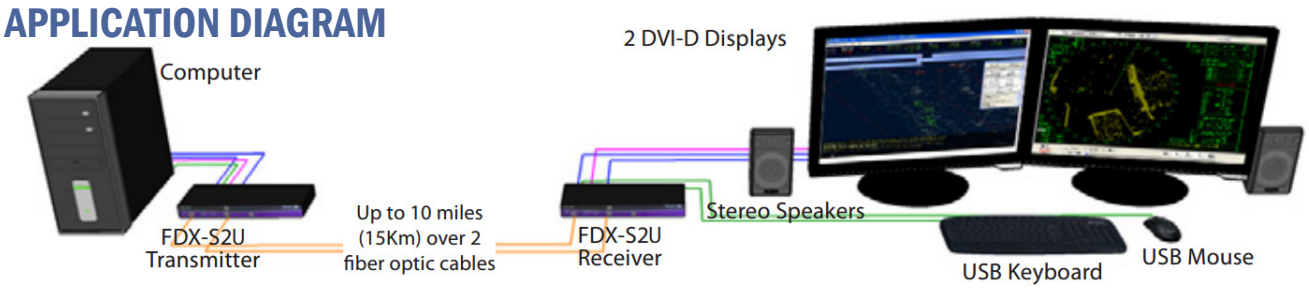
FEATURES

- Dual channel DVI-D, audio, and USB keyboard and mouse with RS-232 control.
- Top Signal Quality at Maximum Extension Over Single mode Fiber (up to 10 miles)
- Superior Image Quality at all Resolutions
- Video Resolutions up to 1920 x 1200 at 60Hz
- (1280 x 1024 at 75Hz)
- Customizable/Programmable DDC Table
- Supports USB Keyboard/Mouse
- Supports Stereo Audio
- Supports DVI-D
- Supports RS-232 Control from 300bps to 115200bps
- Fiber Plug Type LC
- Compatible With all Operating Systems

WHAT'S IN THE BOX?

PART NO.	DESCRIPTION
FDX-TXS2U	FDX-S2U Single mode Transmitter
FDX-RXS2U	FDX-S2U Single mode Receiver
CCPWR06USA	AC Power Cable

APPLICATION DIAGRAM



CONNECTING THE FDX-S2U

1. Turn off all devices.
2. Connect the two DVI-D cables, USB cable, and audio cable (not included) from the computers to their respective ports on the **FDX-S2U Transmitter (TX)**.
3. Connect the two monitors to the DVI-D outputs of the **FDX-S2U Receiver (RX)**.
4. Connects the USB keyboard and Mouse to the USB ports on the RX. Note that only keyboard and mouse may be connected to the FDX-S2U).
5. Connect the stereo speakers to the audio port on the RX.
6. Connect two **single mode** fiber optic cable with LC type connectors between the TX and RX (maximum cable length is 1,400 ft.). Please make sure that Link 1 on the TX is connected to Link 2 on the RX.
7. Connect the power cable to both the TX and RX and turn both units on.
8. Power on all devices.

EDID LEARNING

FDX-S2U is also fully capable of "learning" and remembering what type of display monitor is connected to it.

1. Ensure that the units (TX and RX) are both powered off.
2. Power on the displays being learned and connect them to the RX using DVI cables.
3. Connect the two single mode fiber optic cable between the TX and RX. **DO NOT** connect the computer to the transmitter at this point.
4. Power on the TX and the RX.
5. Wait for approximately 30 seconds. Then *Data* and *Video* LEDs on both the TX and RX should blink on and off continuously for about 10 seconds. Then the *Video* LED will turn on (solid) for a few seconds and then turn off, indicating that the EDID of your monitor has been learned. *Note:* If the LEDs do not stop blinking on and off, then the EDID is not learned properly; thus, re-learning is required.
6. Plug the computer into the transmitter. If the computer did not automatically detect the TX, go to the *Screen Resolution Settings* on your computer and click *Detect*.
7. Once the EDID of the monitor is learned, the EDID information will be stored in the internal memory of the transmitter. Therefore, learning the monitor's EDID again is not required. However, when using *another* monitor that has a different native resolution or EDID information than the first monitor, then learning is required.