What's in the Box?

PART NO.	QTY	DESCRIPTION
FDX-TX3500	1	FDX-3500 Transmitter Unit - DVI-D, Stereo Audio, USB Keyboard/Mouse and RS-232 Extender over Fiber Optic Cable
FDX-RX3500	1	FDX-3500 Receiver Unit - DVI-D, Stereo Audio, USB Keyboard/Mouse and RS-232 Extender over Fiber Optic Cable
Power Supply	2	PS5VDC4A

Technical Specifications

VIDEO	
Format	DVI-D Single Line
Maximum Pixel Clock	165 MHz
Input Interface	(1) DVI-D 29-pin female
Output Interface	(1) DVI-D 29-pin female
Resolution	Up to 1920 x 1200 @60Hz
DDC	Internal
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
AUDIO	
Frequency Response	20 Hz to 20 KHz
Impedance	600 ohm
Nominal Level	0-1.0 V
Common Mode	Rejection at 60dB
Input Interface	(1) 3.5 mm Stereo Audio
Output Interface	(1) 3.5 mm Stereo Audio
USB	
Signaling	USB Keyboard and Mouse ONLY
Input Interface	(1) USB Type B
Output Interface	(2) USB Type A
OTHER	
Power	External 100-240 VAC/5VDC4A @20W
Dimensions	4.5"W x 5.375"H x 1.75"D
Weight	1 lb.
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131°F (0-55 °C)
Storage Temp.	-4-185 °F (-20-85 °C)
Humidity	Up to 95%
RS-232	Data up to 115,000 bps

NOTICE

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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.

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

Installation Manual

FDX-3500

DVI-D Video, Stereo Audio, USB Keyboard/Mouse and RS-232 Extender over Fiber Optic Cable

The FDX-3500 consists of a transmitter and receiver that extend KVM, DVI-D, audio and RS-232 signals. It is a professional quality KVM capable of extending signals up to 15 kilometers over a single singlemode fiber optic cable.

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Introduction

The FDX-3500 consists of a transmitter and receiver that extend KVM, DVI-D, audio and RS-232 signals. It is a professional quality KVM capable of extending signals up to 15 kilometers over a single singlemode fiber optic cable.

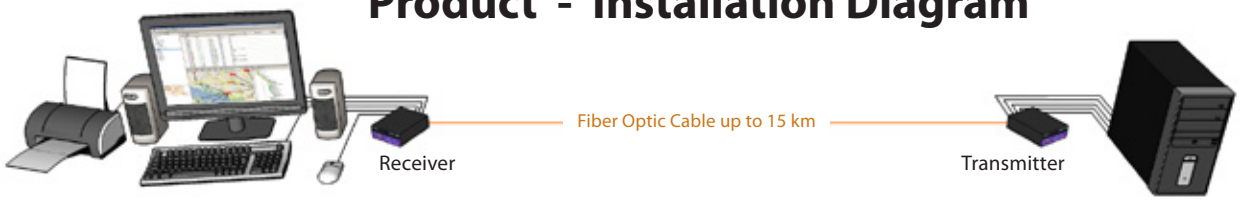
Features

- Top Signal Quality at Maximum Extension Over Singlemode Fiber (15 km.)
- 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 115,000bps
- Supports all USB Keyboards Fully Transparent
- Fiber Plug Type LC
- Compatible With all Operating Systems
- Compatible With all Major KVM Switches
- Compact Metal Casing

Applications

- Corporate or Educational Presentations
- Financial (Remote Servers/User Control)
- Call Centers
- Industrial (Long-Range Workstation Isolation)
- Information Terminals/Kiosks
- Airport Installations (Air Traffic Control/Passenger Information)
- KVM Extension where Exceptional Quality of Signal is Crucial
- Medical (Remote Operation Away from Sensitive/ Magnetic Equipment)
- Recording (for Large Studios where Editing/Mixing Stations are Compact and/or Require Complete Silence)

Product - Installation Diagram



Installation

1. Turn off the computer, display, and speakers.
2. Connect the DVI extension cable, USB cable, and audio cable (not included) to the computer and to the ports on the FDX-3500-TX.
3. Connect the display to the DVI connector on the FDX-3500-RX.
4. Connect USB mouse and keyboard ONLY to the USB connectors on the FDX-3500-RX.
5. Connect speakers to the audio connector on the FDX-3500-RX.
6. Connect the power cord and power on the FDX-3500TX and the FDX-3500-RX.
7. The FIBER STATUS and POWER lights should illuminate.
8. Power on the computer, display and speakers.

FDX-3500 Receiver Front

FDX-3500 Receiver Rear

Learning the DDC

1. Plug in the fiber connection.
2. ***DO NOT*** connect the computer to the transmitter.
3. Power on the transmitter and recevier.
4. Verify the FIBER STATUS and POWER lights are illuminated.
5. Power off the transmitter and receiver.
6. Power on the display and plug it into the recevier.
7. Power on the receiver.
8. Power on the transmitter and wait for approximately 30 seconds. The VIDEO light on the transmitter will blink on and off for approximately 10 seconds indicating the DDC has been learned.
9. Plug the computer into the transmitter and power it on.

ABOUT DDC

DDC provides plug-and-play capability to your displays. When you plug a display into your computer, the DDC table in the display tells the computer the optimal resolution to use. In order to preserve this plug-and-play capability, we have integrated DDC learning into all of our DVI Solutions.