Smart-AVI
SMART AUDIO VIDEO INNOVATION

Installation Manual

FDX-M2P
**Dual DVI-D Extender, with Audio
and USB Keyboard and Mouse**

Extends 2 DVI-D Signals, Audio and USB
Keyboard and Mouse up to 1,400 feet over
2 Fiber Optic Cables

Introduction

The FDX-M2P consists of a transmitter and receiver that extend two DVI-D outputs, with audio, USB 1.1 keyboard and mouse, and transparent RS-232. For exceptional quality and security, fiber optic extension is the best solution. The FDX-M2P can go the distance with multi-mode fiber optic cabling with a reach of up to 1,400 feet.
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 1,400 feet away.
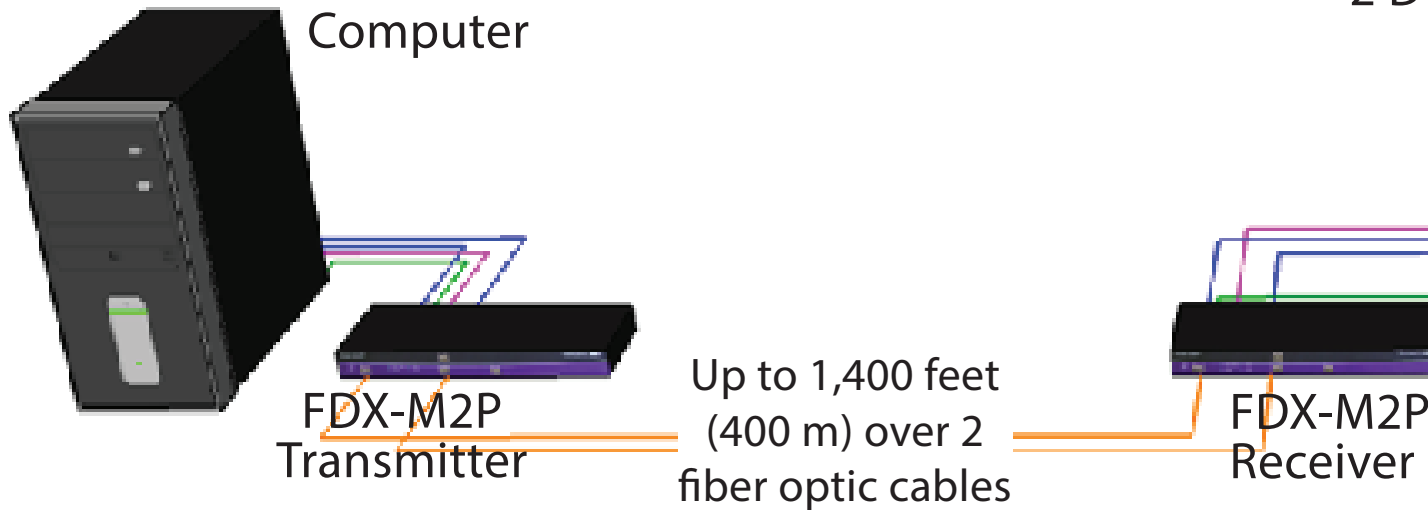
What's in the Box?

PART NO.	QTY	DESCRIPTION
FDX-M2PS	1	Point to Point Dual DVI-D, USB Keyboard & Mouse, Audio and RS232 Multimode Fiber Extender. Includes: [FDX-TX2MP, FDX-RX2MP]
User Manual	1	

Features

- Dual channel DVI-D, audio, USB keyboard and mouse, and transparent RS-232
- Top Signal Quality over Multimode Fiber (up to 1,400 feet)
- Video Resolutions up to 1920 x 1200 WUXGA at 60Hz
- Customizable/Programmable DDC Table for Mac/PC
- Supports all USB 1.1 Keyboards and Mice
- Fiber Plug Type LC
- Compatible With all Major KVM Switches
- Supports Mac, PC, and Linux DVI
- Uses universal DVI Single Link connectors
- Zero pixel loss with TMDS signal correction
- Rack Mountable Solution
- Plug-and-play

Product - Installation Diagra

2 DV

Computer

FDX-M2P
Transmitter

Up to 1,400 feet
(400 m) over 2
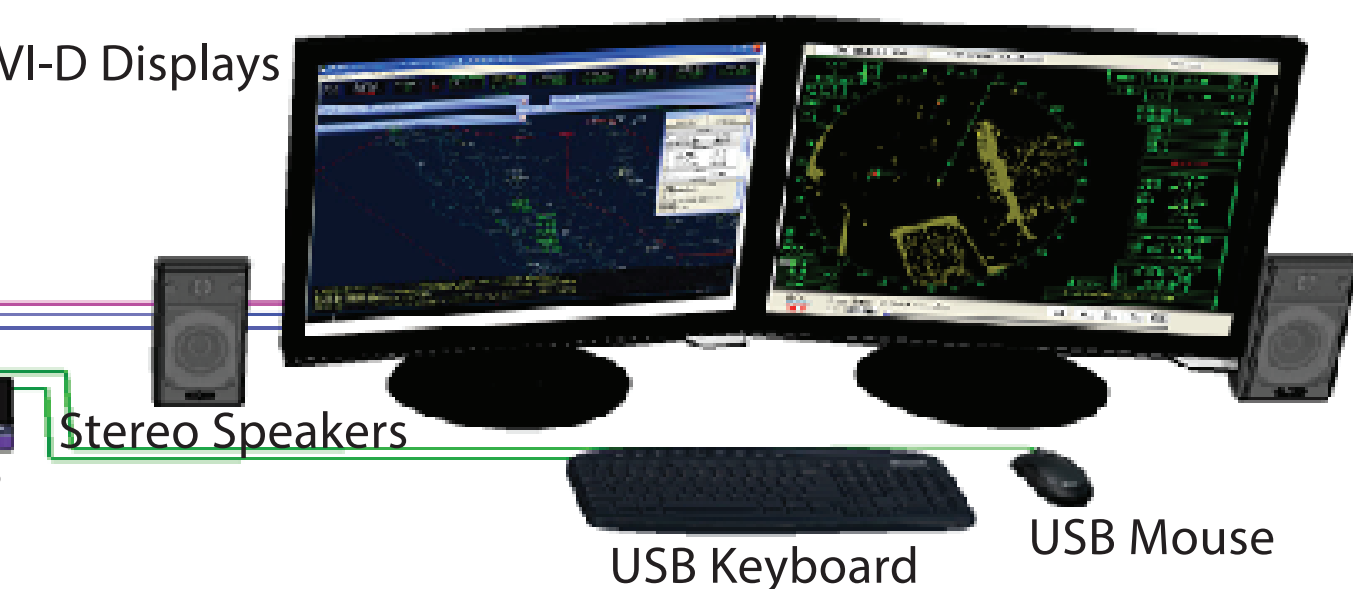fiber optic cables

FDX-M2P
Receiver

Installation

1. Power off the computer, displays and speakers.
2. Connect the DVI Video, Audio and USB cables from the computer to the FDX-M2P transmitter.
3. Connect the FDX-M2P transmitter to the FDX-M2P receiver using 2 fiber optic cables.
4. Connect the DVI displays, speakers and USB keyboard and mouse to the FDX-M2P receiver.
5. Power on the FDX-M2P transmitter and receiver.
6. Power on the computer, displays and speakers.

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VI-D Displays

Stereo Speakers

USB Keyboard

USB Mouse

Fiber Optic Cable Specifications

• **Multimode:** Two fibers 50µm or 62.5µm. For example: I-V(ZN)H 2G50 (In house patch cable)or I-V(ZN)HH 2G62,5 (In house Breakout cable) or I/AD(ZN)H 4G50 (in house OR outdoor Breakout cable, stress resistant) or A/DQ(ZN)B2Y 4G62,5 (outdoor cable, stress resistant with protection against animal biting) All notations acc. VDE specification.

• **Singlemode:** Two fibers 9µm. For example: I-V (ZN)H 2E9 (In house patch cable) or IV(ZN)HH 2E9 (In house Breakout cable) or I/AD(ZN)H 4E9 (in house OR outdoor Breakout cable, stress resistant) or A/DQ(ZN)B2Y 4G9 (outdoor cable, stress resistant with protection against animal biting) All notations acc. VDE specification. A point to point connection is required. Having one or more patch panels in the line is possible and allowed. Telecommunications or network equipment may not be connected to the fiber optic connectors, doing so may cause damage to the device.

Applications

- Home Theater Integration
- Digital Signage Deployment
- Information Kiosks/Displays
- Film/Recording Studios

In the medical or industrial field, where it may not be practical (or safe) to have one or more CPUs in the general vicinity, the FDX-M2P is the perfect solution, allowing for either PC or Mac signals to be extended up to 1,400 feet.

Another practical use for the FDX-M2P would be for media recording studios, where soundproofing and space issues come into play. Using an extender eliminates the inherent "hum" of a powered CPU and gives you the freedom of using your keyboard, mouse and monitor without having to find room for the computer itself in the same workspace.

Technical Specifications

VIDEO	
Format	DVI-D Single Link
Maximum Pixel Clock	165 MHz
Input Interface (TX)	(2) DVI-D 29-pin female
Output Interface (RX)	(2) DVI-D 29-pin female
Resolution	Up to 1920 x 1200 @60Hz
DDC	Programmable Internal Table 5 volts p-p(TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
AUDIO	
Signal Type	Stereo Audio
Bandwidth	15MHz, 0dB
Impedance	10K Ohm
Connector	3.5mm Stereo Mini Female
USB	
Signal Type	USB 1.1
Input Interface (TX)	(1) USB Type B (Female)
Output Interface (RX)	(2) USB Type A (Female) Keyboard/Mouse
OTHER	
RS-232	Data up to 115,000bps
Fiber Extender	Fiber • 225m @ Multimode 62,5µ • 450m @ Multimode 50µ Fiber-Plug type LC
Power	Internal 110-240 VAC
Dimensions	17 in W x 7 in H x 1.75 in D
Weight	8 lb
Operating Temp.	0-55 °C (32-131°F)
Storage Temp.	-20-85 °C (-4-185 °F)
Humidity	Up to 95%

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