

# What's in the Box?

PART NO.	QTY	DESCRIPTION
FDX-TX2000	1	FDX-2000 Transmitter Unit - DVI-D, Stereo Audio, PS/2 Keyboard/Mouse and RS-232 Extender over Fiber Optic Cable
FDX-RX2000	1	FDX-2000 Receiver Unit - DVI-D, Stereo Audio, PS/2 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
PS/2	
Signaling	PS/2 Keyboard and Mouse ONLY
Input Interface	(2) PS/2 Female
Output Interface	(2) PS/2 Female
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

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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.

**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

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**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# Installation Manual

## FDX-2000

DVI-D Video, Stereo Audio, PS/2  
Keyboard/Mouse and RS-232  
Extender over Fiber Optic Cable



The FDX-2000 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 1,400 feet over a single multimode fiber optic cable.

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## Introduction

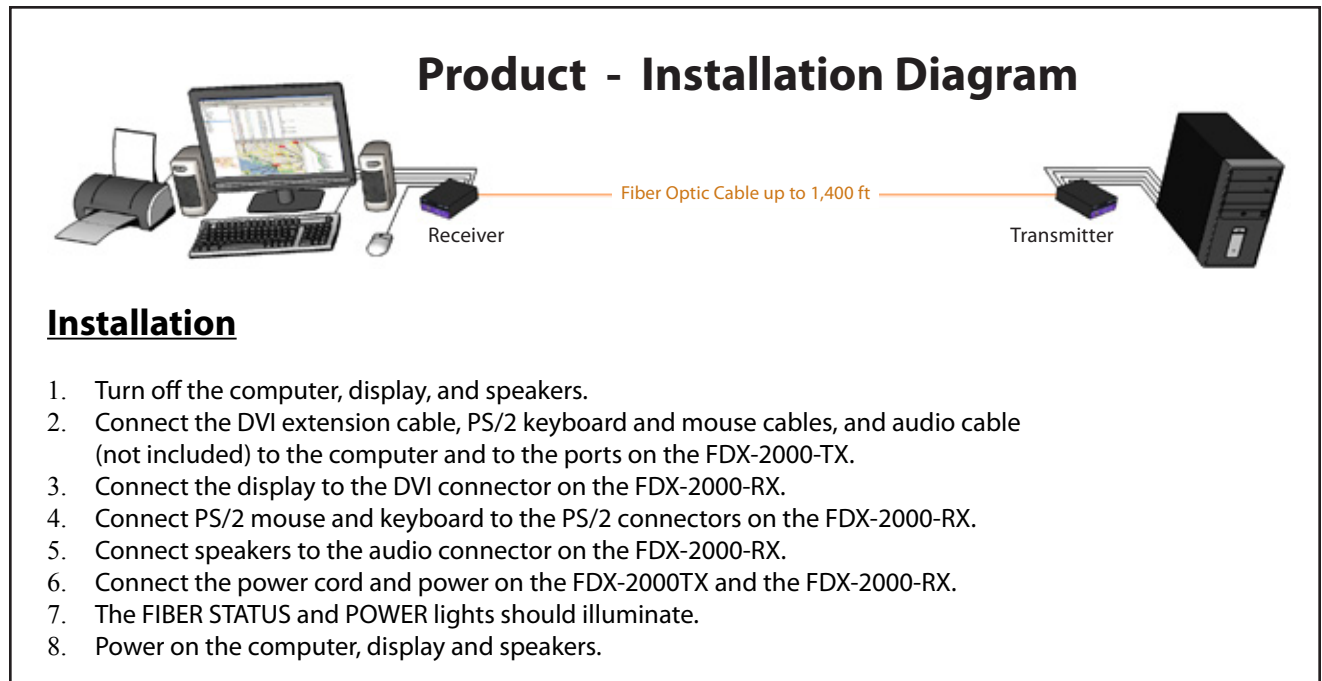
The FDX-2000 consists of a transmitter and receiver that extend KVM, DVI-D, audio and RS-232 signals. It is a professional quality KVM capable of extending signals up to 1,400 feet over a single multimode fiber optic cable.

## Features

- Top Signal Quality at Maximum Extension Over Multimode Fiber (1,400 ft)
- 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 PS/2 Keyboard/Mouse
- Supports Stereo Audio
- Supports DVI-D
- Supports RS-232 Control from 300bps to 115,000bps
- Supports all PS/2 Keyboards
- 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)



FDX-2000 Receiver Front



FDX-2000 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 receiver.
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 receiver.
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.