What’s in the Box?

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<th>DESCRIPTION</th>
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<td>FDX-AVPRO-TX</td>
<td>1</td>
<td>FDX-AVPRO Transmitter Unit - HD DVI-D and RS-232 Extender over Fiber Optic Cable</td>
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<tr>
<td>FDX-AVPRO-RX</td>
<td>1</td>
<td>FDX-AVPRO Receiver Unit - HD DVI-D and RS-232 Extender over Fiber Optic Cable</td>
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<td>Power Supply</td>
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Technical Specifications

**VIDEO**
- Format: DVI-D Single Line
- Maximum Pixel Clock: 165 MHz
- Impedance: 100Ω
- Maximum Data Rate: 6.75 Gbps
- Resolution: Up to 1920 x 1080 @60Hz
- Fiber Interface: LC Connector
- Fiber Type: Single-mode fiber
- Wavelength: Single-mode 1310nm
- Transmission Distance: 10km (standard)

**AUDIO**
- Interface: 3.5mm earphone seat
- Signal Type: Stereo
- RS-232 (Optional)
  - Signal Direction: Unidirectional
  - Max Baud Rate: 115200bps (Self-adaptive)
  - Data Bits: 8

**OTHER**
- Power: External 100-240 VAC/5V-12V@20W
- Dimensions: 4.5"W x 1.7"H x 5.5"D
- Weight: 2 lb.
- Approvals: UL, CE, ROHS Compliant
- Operating Temp.: 32-131°F (-5-70 °C)
- Operating Humidity: 5-90%

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Why Fiber Optic?

SmartAVI has created a full line of fiber optic extender products superior to traditional cabling.

Fiber optic cables are:
- capable of transmitting across vast 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.

The FDX-AVPRO includes a transmitter (TX) and receiver (RX) that extend DVI-D and audio signals up to 10km.

*RS-232 Optional

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The FDX-AVPRO consists of a transmitter (TX) and receiver (RX) unit that extend DVI-D and audio signals up to 10km with optional RS-232 support.

**Features**

- Transmit HD DVI signals over 10km with one fiber optic cable
- Resolutions up to 1080p (1920x1080 @ 60Hz)
- Stereo Audio support
- Optional RS-232 support
- DVI 1.0 and HDCP 1.2 standard compliance
- Highly compatible, Learns EDID
- Auto-enhanced and optimized picture quality
- Secure design

**Applications**

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

**Installation**

1. Turn off the computer, display, and speakers.
2. Connect the DVI extension cable to your computer and to the FDX-AVPRO-TX.
3. Connect stereo audio cable from your computer to the FDX-AVPRO-TX.
   **Optional**: Connect RS-232 cable to FDX-AVPRO-TX.
4. Connect the display to the DVI connector on the FDX-AVPRO-RX.
5. Connect speakers to the audio connector on the FDX-AVPRO-RX.
   **Optional**: Connect RS-232 cable to FDX-AVPRO-RX.
6. Connect fiber cable between TX and RX.
7. Connect the power cord and power on the FDX-AVPRO-TX and the FDX-AVPRO-RX.
8. The FIBER STATUS and POWER lights should illuminate.

**EDID Learning**

1. Plug in fiber cable.
2. Plug in monitor cable to FDX-AVPRO-TX input connector.
3. Plug in power supply to both the TX and RX units.
4. Press and hold the EDID button on the TX unit.
5. When the TX video LED flashes, release the EDID button.
6. Remove the monitor cable and install onto the RX unit.
7. Connect the DVI-D input source to the TX unit.
8. Remove and reconnect power supply for both TX and RX.