What's in the Box?

PART NO.	QTY	DESCRIPTION
SDX-RX	1	SDX Receiver. DVI-D + RS232 + IR Receiver over CAT5/5e/6
SDX-TX	1	SDX Transmitter. DVI-D + RS232 + IR Transmitter over CAT5/5e/6
Power Supply	2	PS5VDC2A

Technical Specifications*

VIDEO	
Format	DVI-D Single Link
Maximum Pixel Clock	165 MHz
Input Interface (TX)	(1) DVI-D 29-pin (Female)
Output Interface (RX)	(1) DVI-D 29-pin (Female)
Resolution	Up to 1920 x 1200 @60Hz
DDC	5 volts p-p(TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
RS232	
Input Interface	DB9 (Female)
Output Interface	DB9 (Female)
Control	@ 115 Kbps
IR	
Frequency Response	30KHz to 80KHz
Input Interface (RX)	(1) 3.5 mm (Female)
Output Interface (TX)	(1) 3.5 mm (Female)
OTHER	
Power	External 100-240 VAC/5VDC2A
Dimensions	5.125 in W x 1 in H x 3.625 in D
Weight	0.5 lb
Operating Temp.	0-55 °C (32-131°F)
Storage Temp.	-20-85 °C (-4-185 °F)
Humidity	Up to 95%

ORDER INFO	
Part No.	Description
SDX-S	DVI-D + RS232 over a single CAT5 UTP Extender: Includes: [SDX-TX, SDX-RX, 2 X (PS5VD4A-WLLMNT)]
SDX-TXS	DVI-D + RS232 over a Single CAT5/5e/6 Transmitter. Includes: [SDX-TX, PS5VD4A-WLLMNT]
SDX-RXS	DVI-D + RS232 over a Single CAT5/5e/6 Receiver. Includes: [SDX-RX, PS5VD4A-WLLMNT]

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Rack Mountable Option

Our SmartRack is the perfect solution to allow virtually all SmartAVI devices to be custom mounted in a standard 19" server rack. The SmartRack is fully adjustable and can secure/organize several devices.

Smart-AVI
SMART AUDIO VIDEO INNOVATION

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Installation Manual

SDX

Super Range DVI-D, RS232 and IR Extender

Extend DVI-D video, RS232 and IR up to 330 feet (100m) over a single CAT5/5e/6 cable

www.smartavi.com

Introduction

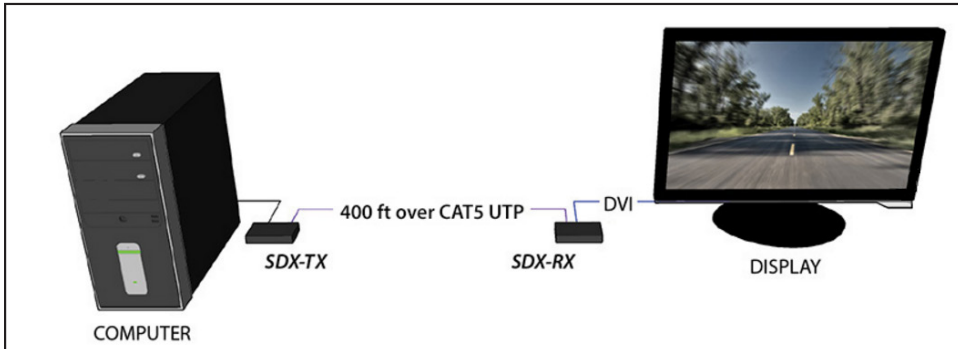
Using HDBaseT technology, the SDX DVI extender is capable of sending a DVI-D signal up to 330 feet over a single conventional and inexpensive CAT5/5e/6 cable. HDBaseT technology is superior to older DVI extenders that require special CAT6 sheilded cable to go a short distance. The SDX also has RS232 and IR extension, giving you the ability to control your displays or devices remotely.

Features

- Extends DVI-D up to 330 feet (100m) from the source
- Data recovery for digital video
- Supports up to 1920x1200 digital video resolution
- Automatic DDC Learning
- Uncompressed Video HDBaseT
- IR and RS232 extension allows for remote control of displays
- External power adapter for transmitter and receiver unit
- Plug and play

To reach maximum distances with HDBaseT technology, it is recommended to use the best possible quality cable available. CAT5e/6 shielded cabling is ideal for best performance.

Product - Installation Diagram



APPLICATIONS

- Security
- PC Networking
- Conference Center Systems
- Point of Sale
- Camera Surveillance
- Video Phone
- Control Room Systems
- Recording Studio
- PC KVM Extension

Connecting the SDX

1. Power off all devices.
2. Connect a DVI-D source (computer) to the DVI-D port on the rear of the SDX-TX.
3. Optionally connect RS232 and IR for control functions.
4. Connect the SDX-TX to the the SDX-RX with one CAT5 UTP (Unsheilded Twisted Pair) cable.
5. Connect a DVI-D compatible display to the DVI-D port on the rear of the SDX-RX.
6. Optionally connect RS232 and IR for control functions.
7. Connect the power to the SDX-RX and the SDX-TX.
8. Power on the display and then the computer.

The DDC of your display will be learned automatically.

SDX-TX Front

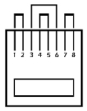
SDX-TX Rear

SDX-RX Front

SDX-RX Rear

The following is the wiring standard for terminating UTP/STP cable using RJ-45 connector:

Pair 1	Pins 1 & 2
Pair 2	Pins 3 & 6
Pair 3	Pins 4 & 5
Pair 4	Pins 7 & 8



Connectors:	RJ-45
Capacitance:	14 pf/ft (46.2 pf/m)
Conductor Gauge:	24 AWG
Impedance:	100 +/- 15 ohms