

Technical Specifications

DVX PLUS SPECIFICATIONS	
Video Interface	Single Link Range
Video Data Rate	1.65 Gbps
Resolution	1920 x 1200 @ 60 Hz, Resolution up to 1280 x 1024 min. 75H
Power Supply	Universal Switch mode PSU (90-240V Input) 5VDC 1A
Input Interface	DVI-D
USB Data	
USB max data rate	12Mbps
USB compatibility	1.0 and 1.1
Connector Type	Type A (Transmitter) Type B (Receiver)

© Copyright 2008 Smart-AVI, All Rights Reserved

Notice

The information contained in this document is subject to change without notice. Smart-AVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for any particular purpose.

Smart-AVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced or translated into another language without prior written consent from Smart-AVI.

For the complete manual, visit www.smartavi.com.

Smart-AVI
SMART AUDIO VIDEO INNOVATION

User Manual

DVX Plus



**DVI-D and USB extension
via Twisted Pair**

Smart-AVI
2840 N. Naomi Ave.
Burbank, California 91504
Phone: (818) 565-0011
Facsimile: (818) 565-0020

www.smartavi.com

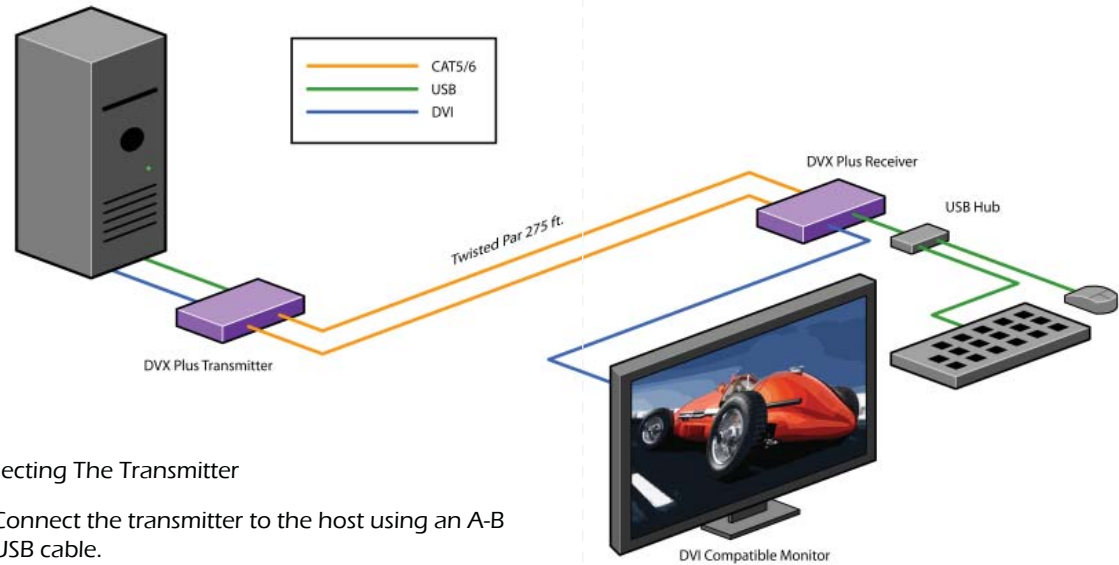
Introduction

DVX Plus extends Universal Serial Bus (USB 1.1) and Digital Visual Interface (DVI-D) signals via common twisted pair cable. Using a unique method of transparent data transfer, the system allows a USB peripheral and a DVI display to be located up to 275 feet from the CPU.

Features

- Extends USB and DVI-D signals up to 275ft from the computer.
- Uses easy to install, inexpensive twisted pair cable.
- Data recovery for digital video.
- Supports 1920x1200 digital video resolution.
- Fully compliant with USB 1.1 specifications.
- Supports 1.5 and 12 Mbps data rates.
- Compatible with all operating systems.
- External power adapter for transmitter and receiver unit.
- Fully transparent (does not use any emulation).
- Plug and play.

Installation Diagram



Connecting The Transmitter

1. Connect the transmitter to the host using an A-B USB cable.
2. Connect the transmitter to the host DVI-D using male to male DVI cable.
3. The A side of the USB connector would go to the computer host and the B side would be connected to the transmitter.
4. Check that power LED is lit. The TX/RX LED should not be flashing at this time.
5. In the back of the unit connect the CAT5 cable that will connect to the receiver (DVXU-RX).



Connecting The Receiver

1. Connect the receiver to the peripheral device using A-B USB cable. In this case the A side of the connector will go to the receiver unit and the B side of the connector will go the peripheral. Use a USB Hub if needed.
2. Connect the receiver unit to the monitor.
3. Join the DVX Plus units using shielded cable for DVI-D and standard CAT5/6 UTP cable for USB. Once connected check that the Power LED on both receiver and transmitter is on and the TX/RX LED is flashing, indicating that communication exists between the two units. If receiver LED is not on, make sure the power supply is connected.

Preparing & Connecting System CAT5 Cable

Following is the wiring standard for terminating CAT 5 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 4 - Pair

Operating Instructions

Once installation is completed verify that the power is present at all devices in the system. If computer was on during the set up it might be necessary to reboot the computer. The peripheral devices should be ready for use.

DVX Plus Package Content

Qty	Items	Part No.
1	DVX Plus Transmitter unit	DVXU-TX
1	DVX Plus Receiver unit	DVXU-RX
2	5 volt dc power supply	PS-5D1A-US