

Technical Specifications

VDX SPECIFICATIONS

Video	
Bandwidth	400 MHz
Analog Signal Level	1 Volt
Impedance	75 ohms
Connector	High Density HD15
Format	VGA/SVGA/XGA/UXGA/ RGBH/RGBsB
Sync	TTL horizontal SyncRange: 15 to 130 KHz Vertical Sync Range 30 to 120 Hz
RS232	
Connection	Bi-directional Transmit Receive Only, RXD, TXD
System Cable	
Type	CAT5 UTP EIA 568A
Connector	RJ45
Power	
Requirements	5V DC @ 1A
Connector	5x2.1 mm DC jack
Weight	.5 lb (0.3 Kg)

ORDER INFORMATION

Model	Description
VDX	Extends Video and RS232 up to 1000ft using cat5

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Smart-AVI
SMART AUDIO VIDEO INTEGRATION

User Manual

VDX



Use a single CAT5 to broadcast
high resolution UXGA and RS232
1000ft away

Smart-AVI
SMART AUDIO VIDEO INTEGRATION

3111 Winona Ave., Suite 101
Burbank, California 91504
Phone: (818) 565-0011
Facsimile: (818) 565-0020

www.smartavi.com

Introduction

The VDX allows the extension of High Definition Video and RS232 control signals via a single Category 5 twisted pair cable up to 1000ft using a unique method of transparent data transfer.

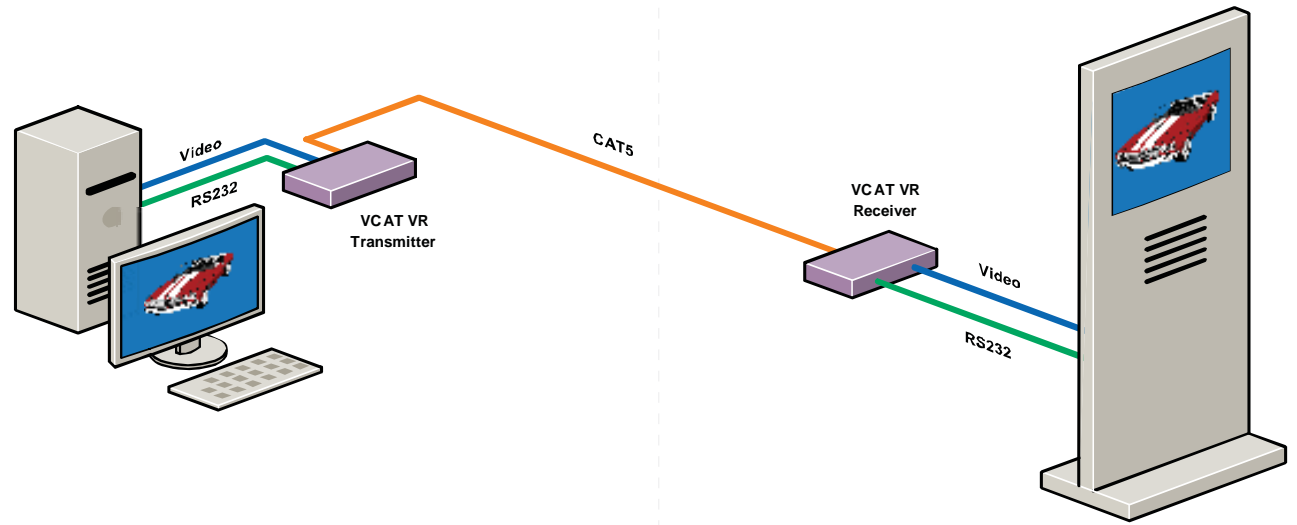
Features

- Uses easy to install, inexpensive CAT5/5e/6/7/8.
- Output reaches up to 1,000 feet (300 m).
- Supports high resolution clear video up to 1900x1200
- HDTV compatible (720p, 1080i, 1080p)
- 300 MHz Bandwidth.
- Sends high-resolution XVGA and RS232 signals.
- Compatible with VGA, XGA, Sun, MAC and SGI
- Sync Format / Polarity Preservation.
- Bidirectional serial RS-232 (Tx/Rx) control.
- High ground loop immunity.
- Built-in lightning, power surge and transient protection.
- Designated trimmer in the remote unit to compensate for cable length.
- Compact metal case enclosure.
- Remote units come with buffered outputs.

What's in the box?

VDX Package Contents		
Qty	Description	Part Number
1	VCA UXGA/Audio Transmitter	VDX-TX
1	VCA UXGA/Audio Receiver	VDX-RX
2	5VDC 1A Power Supply	PS-5D1A-US

Installation Diagram



Connecting The Transmitter

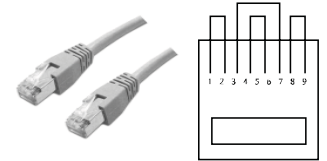
1. Connect the output of the computer video card to the video input of the transmitter using the included male to male video cable.
2. Connect the CAT5 cable that will connect to the receiver unit.
3. Connect a cable from the serial output to the RS232 input on the transmitter unit.
4. Connect the power supply.

Connecting The Receiver

1. Connect CAT5 cable (coming from the transmitter) to the back of the receiver.
2. Connect the RS232 connector to the display device.
3. Connect the display monitor to the VGA out connector on the front of the receiver.
4. Connect the power supply.
5. Observe LED lighting up indicating power present.

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:
Capacitance:
Conductor Gauge:
Impedance:

RJ-45
14 pf/ft (46.2 pf/m)
24 AWG
100 +/- 15 ohms
4 - Pair