

## Technical Specifications

### VDX SPECIFICATIONS

<b>Video</b>	
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
<b>RS232</b>	
Connection	Bi-directional Transmit Receive Only, RXD, TXD
<b>System Cable</b>	
Type	CAT5 UTP EIA 568A
Connector	RJ45
<b>Power</b>	
Requirements	5V DC @ 1A
Connector	5x2.1 mm DC jack
<b>Weight</b>	.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

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## 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.

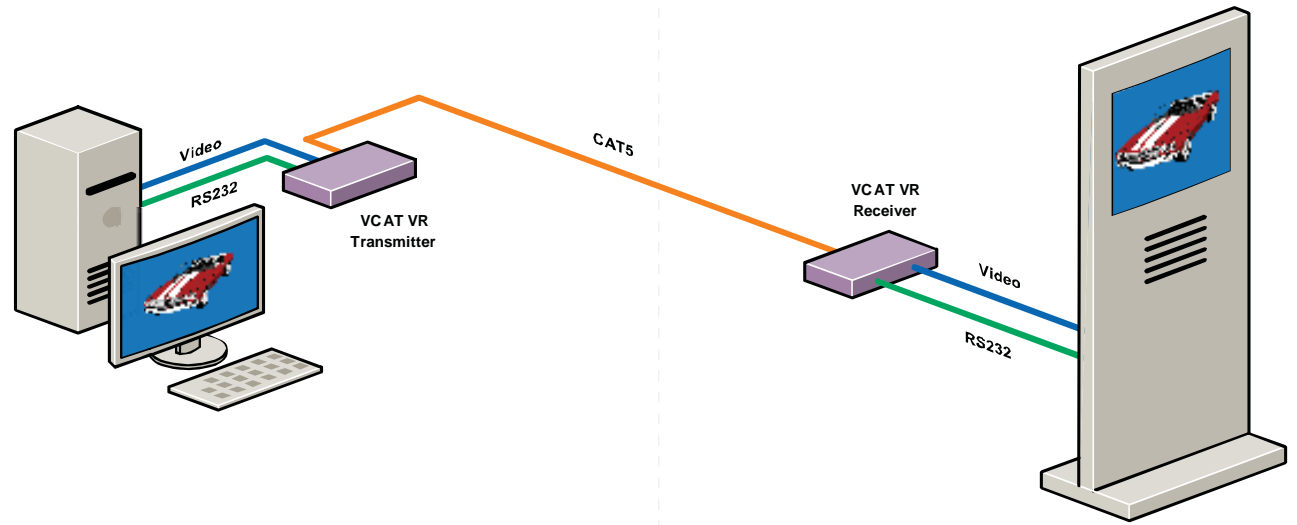
## Features

- 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

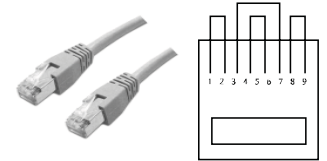
1. Connect the output of the computer video card to the video input of the transmitter using the included male to male video cable.
2. Connect the CAT5 cable that will connect to the receiver unit.
3. Connect a cable from the serial output to the RS232 input on the transmitter unit.
4. Connect the power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