Technical Specifications

VCAT SPECIFICATIONS	
VGA Data	
Format	RGBHV, RGsB, YUV, Y/C, CVBS
Resolution	Up to 1600 x 1200 VGA, SVGA, XGA, SXGA
Connector Type	HD 15 socket
Power	
Requirements	5VDC 2A
Connector	2.1mm DC jack
Physical	
Dimensions	95 x 80 x 23mm
Weight	0.12 Kg

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 with out prior written consent from Smart-AVI.

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

Smart-AVI
Smart Audio Video Integration

User Manual

VCT-100
(VCAT)

800.AVI.2131

Tel: (818) 503-6200

Fax: (818) 503-6208

11651 Vanowen St.
North Hollywood, CA 91605

SmartAVI.com

Use a single CAT5 to broadcast high resolution SXGA up to 1000ft (300 m)

www.smartavi.com

Introduction   VCT-100 (VCAT)

The VCAT range of products allows the extension of a wide range of video formats via a single Category 5 Unshielded Twisted Pair (UTP) cable. Using a unique method of data transfer, the system allows a display device to be situated up to 1000ft (300 meters) from the source.

Features

- Output reaches up to 1,000 feet.
- Resolutions up to 1600 x 1200.
- Sends high-resolution UXGA power signals over single CAT5.
- 300 MHz Bandwidth.
- Compatible with VGA, XGA, Sun, MAC and SGI.
- Sync Format / Polarity Preservation.
- High ground loop immunity.
- Built-in lightning, power surge and transient protection.
- Remote Units come with Buffered Outputs.
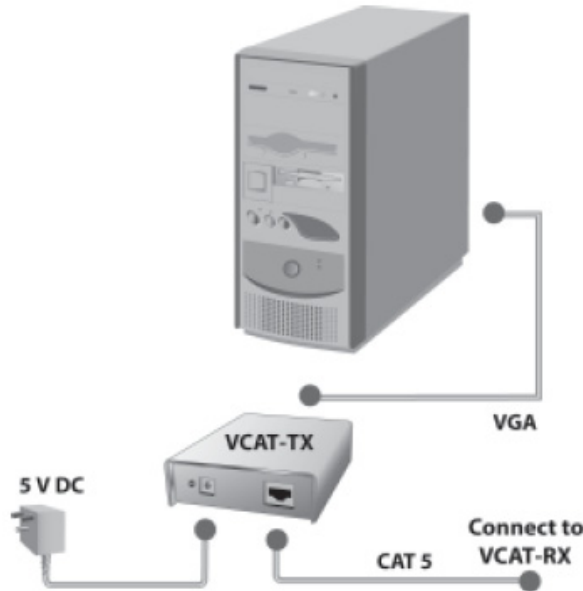- Designated trimmer in the remote unit to compensate for cable length.

What's in the box?

VCT-100 (VCAT)

Please check the contents of the package before beginning installation.

Qty	Items	Part No.
**SLX-100 Package Content**		
2	5VDC	PS-5VDC2A
1	VCAT Receiver Unit	VCAT-RX
1	VCAT Transmitter Unit	VCAT-TX
1	6ft HDD 15 male to male VGA cable	CC-SVGAMM-06

Installation Diagram

VCAT Transmitter Installation Diagram

VCAT Receiver 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.
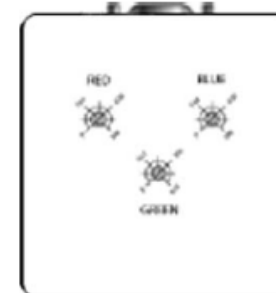3. Connect the power supply.

Connecting The Receiver

1. Connect CAT5 cable (coming from the transmitter) to the back of the receiver.
2. Connect the display monitor to the VGA out connector on the front of the receiver.
3. Connect the power supply.

Adjusting and Fine Tuning the Signal

In order to fine tune the signal, adjust the individual dials one at a time starting with GREEN, then BLUE, and lastly RED. As you turn the dials you will notice the colors slightly change as you increase or decrease the strength.

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