Technical Specifications

VCAT400 SPECIFICATIONS		
ITEM	**VCAT400**	**VCAT-RX**
Input and Local Output	HD15 female, Termination: 75 Ohm	
Output		2 x HD15 female
RGB Signal	Analogue signal 0.7v positive, 75 Ohm termination	
Sync	TTL compatible Horizontal Sync Range: 15 to 130 KHz Vertical Sync Range: 30 to 120 Hz	
Bandwidth	300 MHz @ -3 db	
Power Supply	5VDC	5VDC
System Connector RJ45	4,8 or 16 RJ45 twisted-pair EIA 568 Category 5 (UTP or FTP) Pairing: 1/2 3/6 4/5 7/8 (EIA 568 or AT&T 258A)	
Trimmer		Cable Compensation for cable length

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Smart-AVI
Smart Audio Video Integration

User Manual

VCAT400

Use a single box to broadcast to 4 remote monitors using a single CAT5

www.smartavi.com

Introduction

The VCAT400 allows transmission of AV signals over a standard CAT-5 UTP cable over distances of up to 500 ft. The transmitted signals are computer video signals in an RGBHV (Red, Green, Blue and Horizontal and Vertical Sync) analog formats.

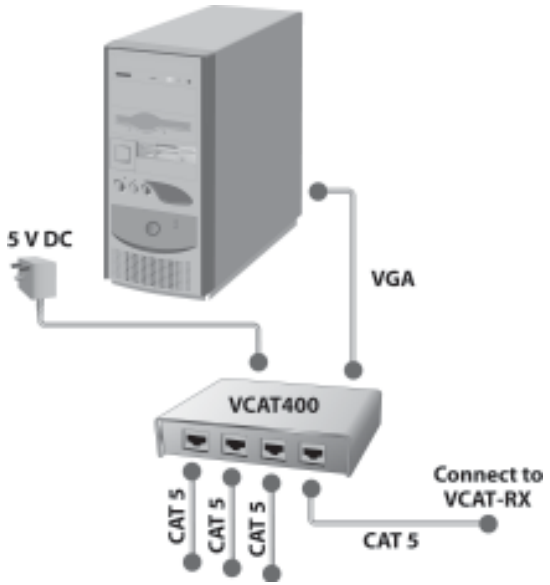
Features

- Uses easy to install, inexpensive CAT5.
- Output reaches up to 1,000 feet.
- Resolutions up to 1600x1200.
- 300 MHz Bandwidth.
- Sends high-resolution VGA signals from one source to up to 16 monitors.
- Broadcasts on up to 256 Video output devices through daisy chain capability.
- Compatible with VGA, XGA, Sun, MAC and SGI signals.
- Sync Format / Polarity Preservation.
- 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.
- External power supply.

What's in the box?

VCAT400 Package Content		
Qty	Description	Part Number
1	VCAT400 Transmitter	VCAT400
1	12VDC 1A Power Supply	PS-12D1A-US
1	VGA cable Male to Female	CC-VGAMM-06
Optional Accessories		
1	VCAT-RX Receiver Unit	VCT-RX
1	IR Eye	SM-EYE
1	IR Emitter	SM-LED
2	RS232 to RJ12 Adapters	RS-232
1	3.5 mm Stereo Audio Cable	CC-MMAMM-06

Installation Diagram



SLX-200 Transmitter Installation Diagram

SLX-200 Receiver Installation Diagram

Connecting The Transmitter

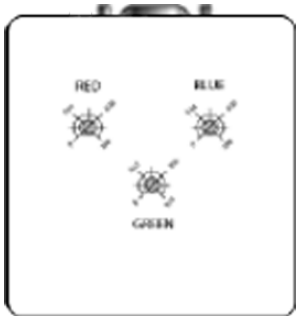
1. Connect the output of the computer video card to the video input of the transmitter using the included male to male video cable.
2. Connect local monitor to the VGA out of the transmitter.
3. In the back of the unit connect the CAT5 cable that will connect to the receiver unit.
4. Connect the power supply.

***NOTE: You can not use RS232 and IR at the same time.**

Connecting The Receiver

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

Adjusting and Fine Tuning the Signal

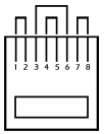


In order to fine tune the signal, adjust the individual dials one at a time starting with GREEN, then BLUE, and lastly RED. As you turn the dials you will notice the colors slightly change as you increase or decrease the strength.

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