Technical Specifications

| Transmitter and receiver | | |
|--------------------------|---|--|
| Video | | |
| Bandwidth | 400MHz | |
| Analog signal Level | 1 volt | |
| Impedance | 75 ohms | |
| Connector | High density HD15 | |
| Format | VGA/SVGA/XGA/UXGA/RGBH/RGsB | |
| Sync | TTL horizontal SyncRange: 15 to 130 KHz Vertical Sync Range 30 to 120 Hz | |
| Audio | | |
| Bandwidth | 20 KHz | |
| Signal level | OdB | |
| Impedance | 10K ohms | |
| Connector | 3.5mm jack socket | |
| System Cable | | |
| Туре | Cat5 UTP EIA 568A | |
| Connector | RJ45 | |
| Power | | |
| Requirements | 5V DC @500mA | |
| Connector | 5x2.1 DC Jack | |

© Copyright 2017 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 with out prior written consent from Smart-AVI.

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



User Manual

VCA400



Use a single CAT5 to broadcast high resolution UXGA and stereo audio to 4 locations1000ft away

Smart-AVI

11651 Vanowen St. North Hollywood, CA 91605 Phone: (818) 503-6200 Facsimile: (818) 503-6208

www.smartavi.com

Introduction

The VCA400 allows transmission of high definition video and stereo audio signals over a standard CAT-5 UTP cable over distances of up to 1000 ft.

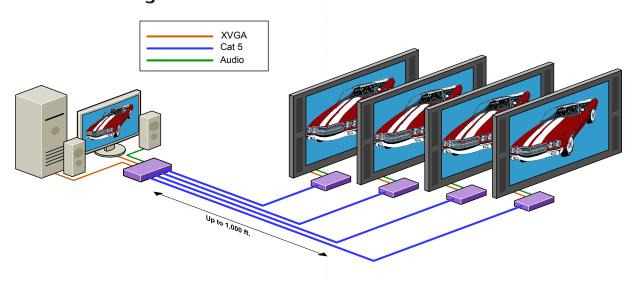
Features

- Uses easy to install, inexpensive CAT5.
- Output reaches up to 1,000 feet.
- Resolutions up to 1900x1200.
- 300 MHz Bandwidth.
- Sends high-resolution VGA and stereo audio signals from one source to up to 4 devices.
- 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?

| Description | Part Number | | |
|-----------------------------------|-------------|--|--|
| 4 port VCA UXGA/Audio Transmitter | VCA-TX400 | | |
| 5VDC 2A Power Supply | PS-5D2A-US | | |
| VGA cable Male to Female | CC-VGAMM-06 | | |
| Optional Equipment | | | |
| VCAT-RX Receiver Unit | VCA-RX100 | | |

Installation Diagram



Connecting The Transmitter

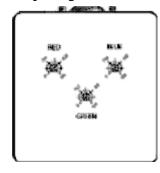
- Connect the output of the computer video card to the video input of the transmitter using the included male to male video cable.
- 2. Connect local monitor to the VGA out of the transmitter.
- 3. Connect the audio output cable from the computer to the transmitter
- 4. In the back of the unit connect the CAT5 cable that will connect to the receiver unit.
- 5. 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 speakers to the audio out connectors on the front of the receiver unit.
- 4. 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 CableFollowing 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

ST ST



Connectors:
Capacitance:

pacitance: 14 pt

Conductor Gauge: Impedance:

14 pf/ft (46.2 pf/m)

24 AWG 100 +/- 15 ohms

4 - Pair

RJ-45