CAT5 AVDS Transmitter

Quick Installation Guide

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5UM40123 V1.2 2/06

1. Introduction

The AVDS Transmitter system from Minicom, broadcasts real-time high-resolution video and mono audio signals to hundreds of remote display monitors and speakers.

The AVDS Transmitter system consists of the following components:

- Transmitter Unit P/N 1VS22031 + Control Unit
- Line Splitters P/N 1VS22019 to expand the system
- Remote units P/N 1VS23011
- Power Remote units P/N 1VS22036 – for enhanced audio signals

Warning! Do NOT connect units with the above part numbers to units of earlier AVDS Transmitter systems that have different part numbers. Part numbers are located on the back of each unit.

2. The 2 types of Remote units

Note! Any reference to Remote units refers to both Remote and Power Remote units unless stated otherwise

Both types of Remote units can be up to 110m/360ft away from the Transmitter.

The difference between the 2 Remote unit types is as follows:

The Remote units:

- Do not need a separate power supply they receive power from the connected CAT5 FTP cable
- Must be connected with Shielded CAT5 FTP cables

The Power Remote units:

- Need a separate power supply (provided)
- Can be connected with CAT5 UTP or Shielded CAT5 FTP cables
- Produce better quality audio signals

3. The multi-functional AVDS Transmitter system

You can use the AVDS Transmitter system in the following ways:

(A) Without the Control Unit

The AVDS Transmitter system constantly broadcasts a computer screen with audio to all remote monitors/speakers.

(B) With the Control Unit

- Broadcast a computer screen with audio to all remote monitors/speakers
- Darken all remote screens (audio broadcast is unaffected)
- Release the remote screens to allow local monitor viewing (when remote computers are connected).

The screen dark function is useful when carrying out maintenance, changing the broadcast program or in a classroom environment to grab students' attention.

(C) RS232 Serial control

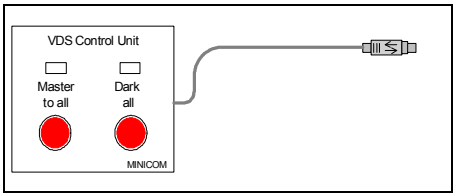
Connect the RS232 cable (illustrated below) and control the system via RS232 Serial control.

Screen resolutions

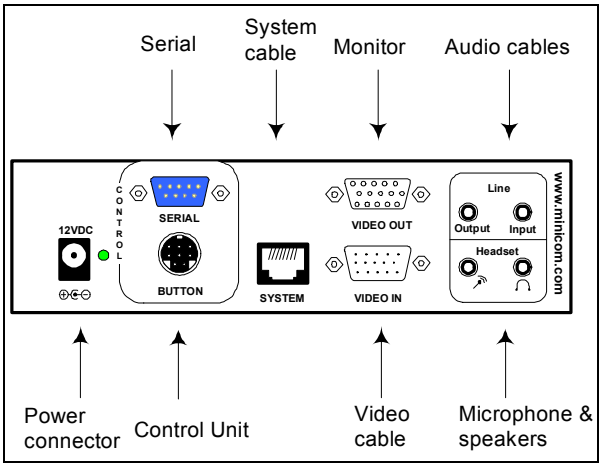
All the above applications broadcast video up to resolutions of 1600 x 1200 @ 75Hz depending on the cable length.

4. The AVDS Transmitter units

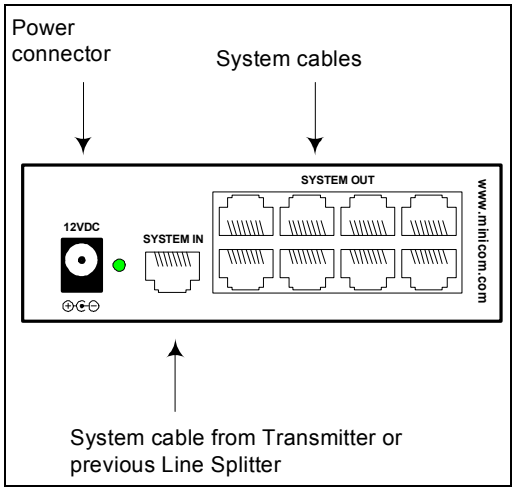
The figures below illustrate the Control unit, Transmitter Unit, Line Splitter and the Remote units.



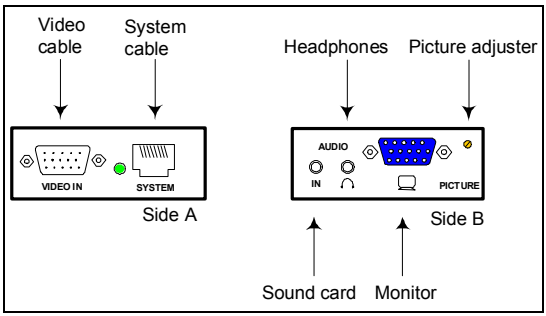
Control Unit



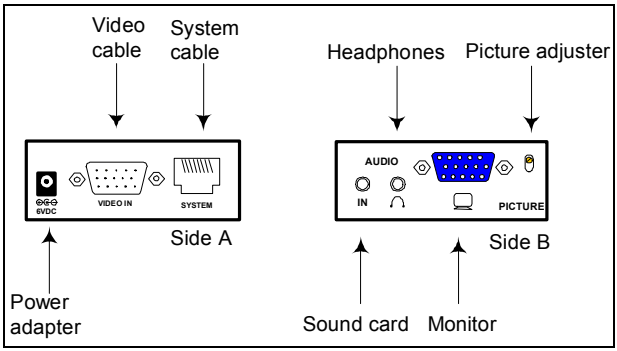
Transmitter Unit



Line Splitter



Remote unit



Power Remote unit

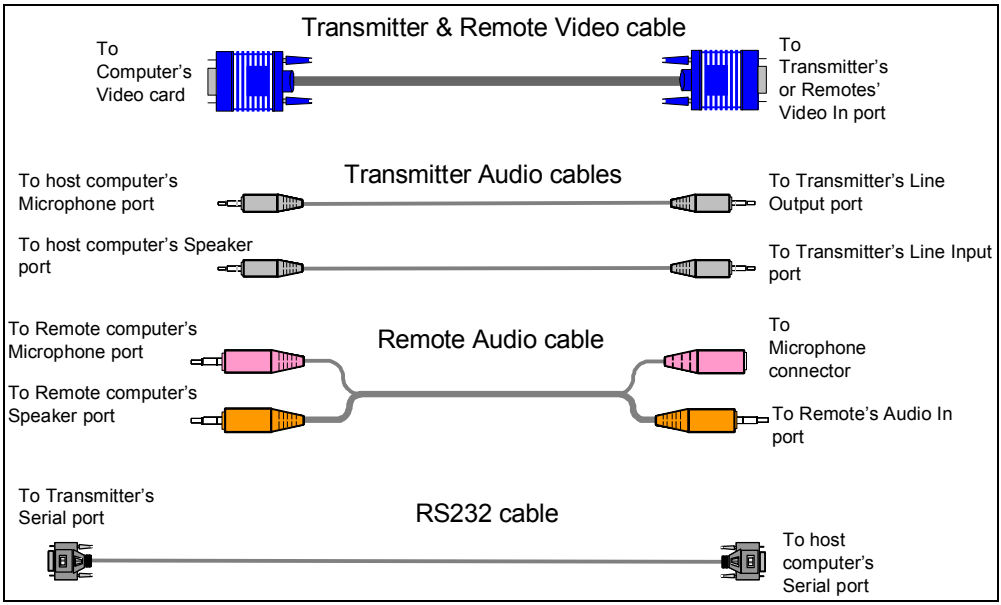
5. Pre-installation instructions

Note! In the AVDS Transmitter system the CAT5 cables carry electrical power. Therefore do **NOT** connect them to any other device. To avoid this we recommend you attach the stickers provided to the ends of each CAT5 cable.

Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

6. The AVDS Transmitter cables

The AVDS Transmitter cables are illustrated below.



7. Connecting an optional remote computer

You have the option to connect the Remote units to a computer, which can be worked on locally. The Remote Video and Audio cables are only used when the Remote unit is connected to a computer.

8. Power supply

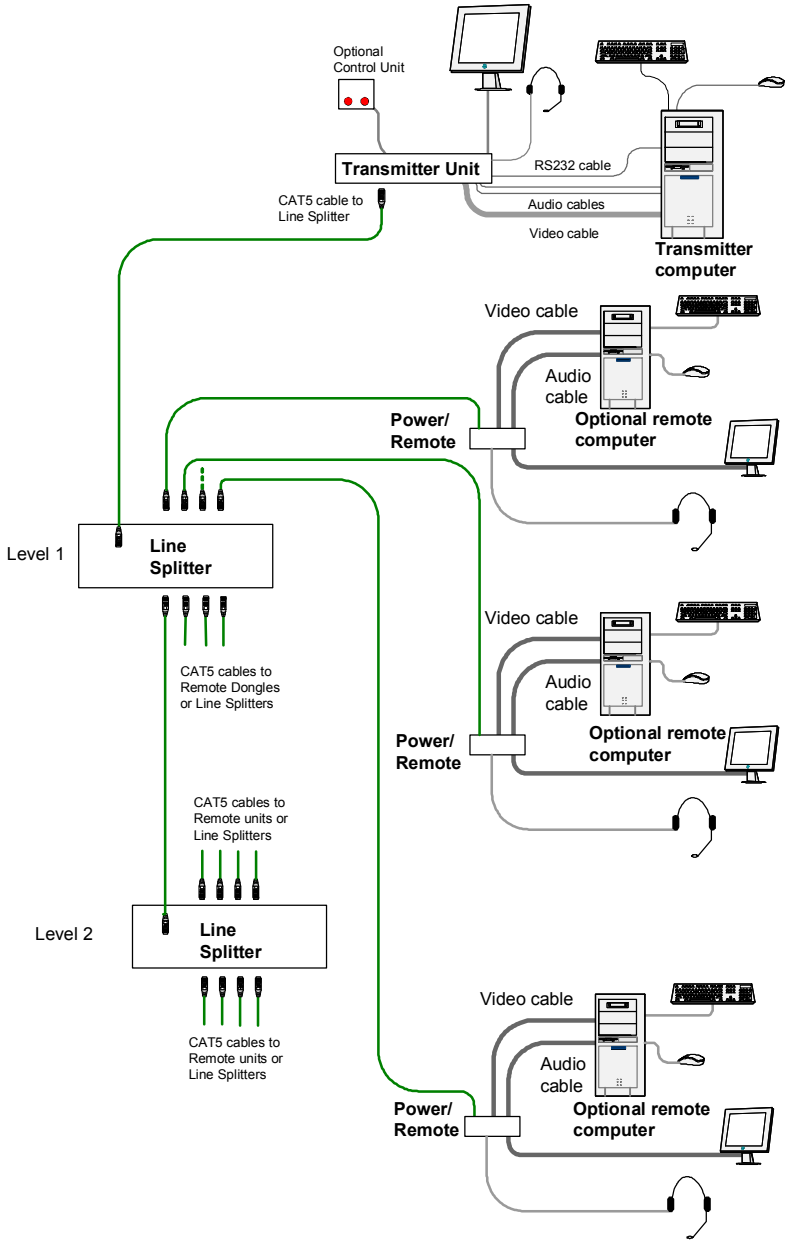
Connect the Transmitter and Line Splitters to the power supply with 12 VDC, from the AC/DC adapter provided.
Connect the Power Remotes to the power supply with 6 VDC, from the AC/DC Power adapter provided.
The Remote units receive 12 VDC, 160 mA via the CAT5 cables from the Line Splitter.

9. Expanding the AVDS Transmitter system

You can expand the AVDS Transmitter system to 512 Remote units by having up to 3 levels of Line Splitters. The Line Splitters on levels 1 and 2 can have 8 Remote units or Line Splitters connected to it. Each Line Splitter on level 3 can connect to 8 Remote units. (See the configuration diagram on page 6).

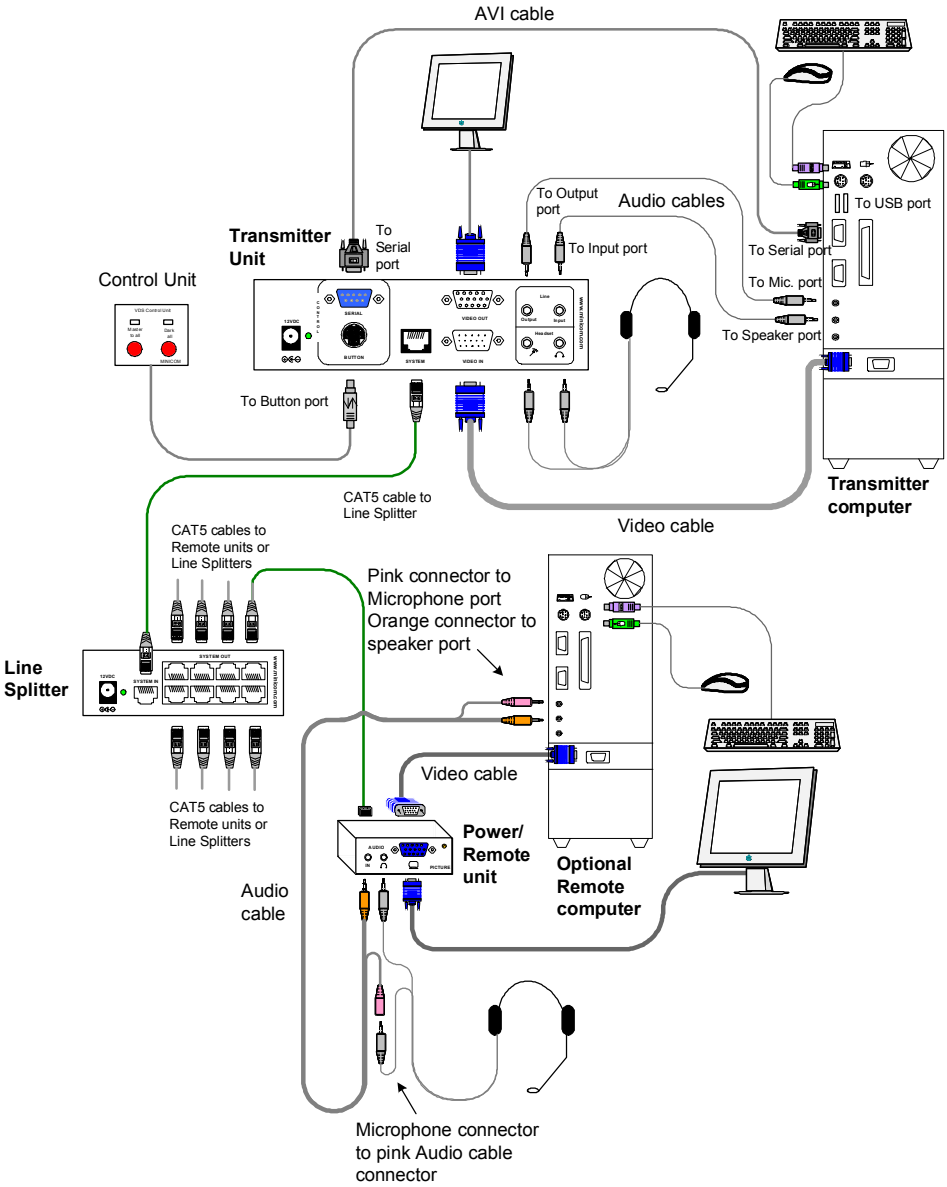
10. The AVDS Transmitter configuration for a CBT application

The figure below illustrates the AVDS Transmitter configuration.



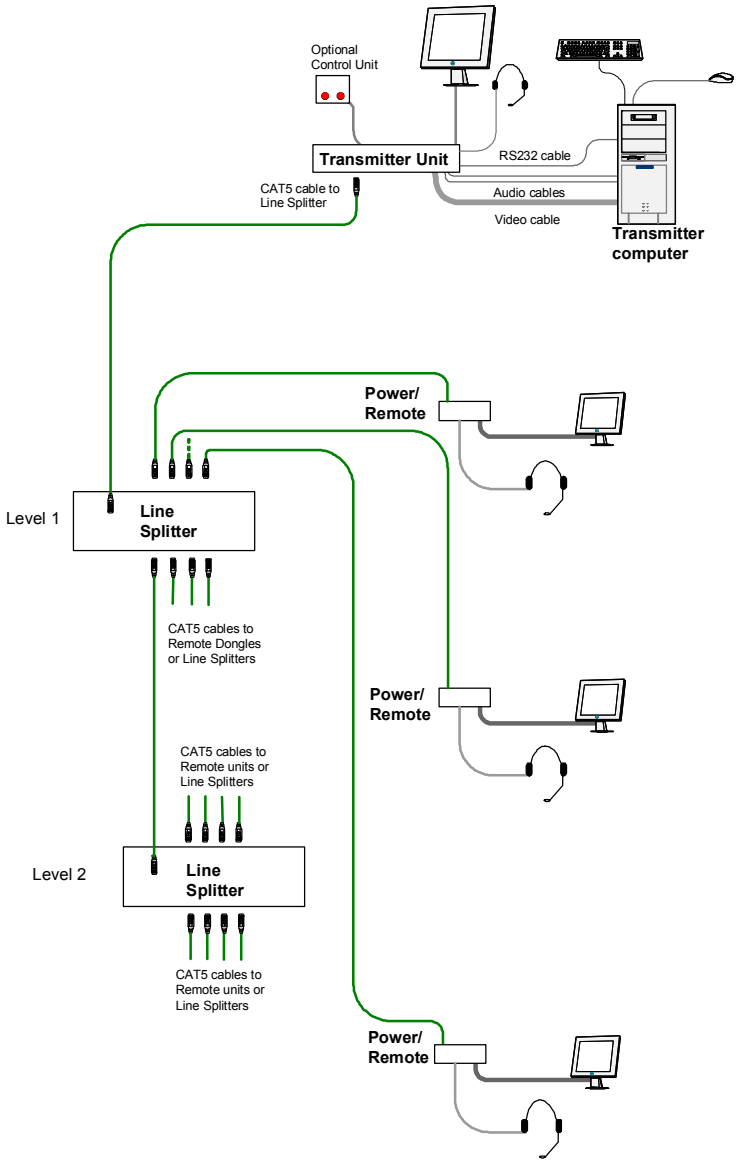
11. AVDS Transmitter detailed connections

The figure below illustrates the detailed connections of the AVDS Transmitter units.



12. Configuration without remote computers

The figure below illustrates the AVDS Transmitter configuration without optional computers connected to the Remote units. The connections are the same as above minus the Remote Video and Audio cables.



13. Operating the AVDS Transmitter system

Operate the AVDS Transmitter system with the Control Unit or RS232 Serial control.

The Control Unit performs the following functions:

Master to all

Press the **Master to all** button to send the host computer's screen with audio to all remote screens /speakers. The LED above the button lights up.

Press the button again to release the remote screens/speakers, allowing local monitor viewing (when remote computers are connected).

Dark all

Press the **Dark all** button to darken all remote screens. The LED above the button lights up. (**Dark all** does not affect audio broadcasting).

Press the button again to release the remote screens.

14. Adjusting the picture

When the broadcast screen needs adjusting, use a small screwdriver to turn the Picture adjuster on the Remote unit.

15. Technical specifications

SYSTEM	
Resolution	Up to 1600x1200 @ 75 Hz
System cable	Shielded CAT5 FTP 2x4x24 AWG Solid Wire Conductor cable (+UTP for Power Remote)
Max distance	110m/360ft
Input/Output Video Signals	Analog signal red, green, blue 0.7v p-p 75 Ohm
Sync.	TTL compatible
Horizontal/Vertical Sync. Polarity	Positive/Negative
Audio	Mono
Operating Temperature	0ºC to 40ºC/32ºF to 104ºF
Storage Temperature	-40ºC to 70ºC/-40ºF to 158ºF
Warranty	3 Years

	TRANSMITTER	LINE SPLITTER	REMOTE
Cables & Connectors	VGA In - HDD15M VGA Out - HDD15F System Out - RJ45 Mic/Headphone/Sc In/Out – Jack Controller - MiniDin8F Power jack	System In - RJ45 System Out - RJ45 Power jack	System In - RJ45 CPU VGA - HDD15M Screen - HDD15F Audio In/Out – Jack **Power Remote -** Power jack
Dimensions (HxWxD)	4.2 x 15 x 9.4 cm/ 1.6 x 5.9 x 3.7 in	4.2 x 11.8 x 9.6cm/ 1.4 x 3.9 x 3.1 in	3.2 x 7.8 x 6.2 cm/ 1.3 x 3.1 x 2.4 ”
Power supply	AC/DC Power Adapter 12VDC 2A	AC/DC Power Adapter 12VDC 2A	**Remote** 12 VDC, 160 mA from Broadcaster or Line Splitter **Power Remote -** AC/DC Power Adapter 6VDC 2A

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