

CAT5 Audio/Video Display Quick Installation Guide



42U DirectNET
1-800-638-2638
www.42U.com

International HQ

Jerusalem, Israel

Tel: + 972 2 535 9666

minicom@minicom.com

North American HQ

Linden, New Jersey

Tel: + 1 908 4862100

info.usa@minicom.com

German Europe

Zurich, Switzerland

Tel: + 41 1 455 6220

info.german@minicom.com

Italy

Rome

Tel: + 39 06 8209 7902

info.italy@minicom.com

CAT5 AUDIO/VIDEO DISPLAY

1. What is the CAT5 Audio/Video Display system?

The CAT5 Audio/Video Display (AVDS) system from Minicom broadcasts real-time high-resolution video and mono audio signals to hundreds of remote display monitors and speakers.

The AVDS system consists of the following:

- Broadcaster unit p/n 1VS22018 + Control Unit
- Line Splitters unit p/n 1VS22019 to expand the system
- Remote Dongles unit p/n 1VS23011 connect to each remote screen/computer

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

Shielded CAT5 FTP cables connect the AVDS system. The Remote Dongles can be up to 110m/360ft away from the Broadcaster.

2. The multi-functional AVDS system

You can use the AVDS system in the following ways:

(A) Without the Control Unit

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

(B) With the Control Unit

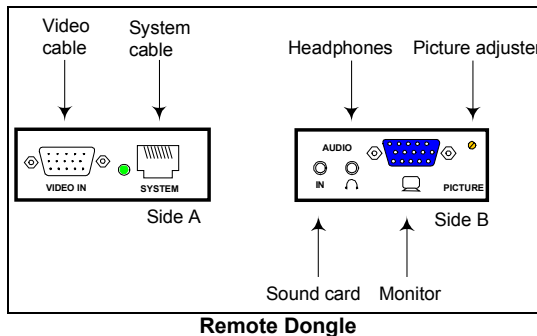
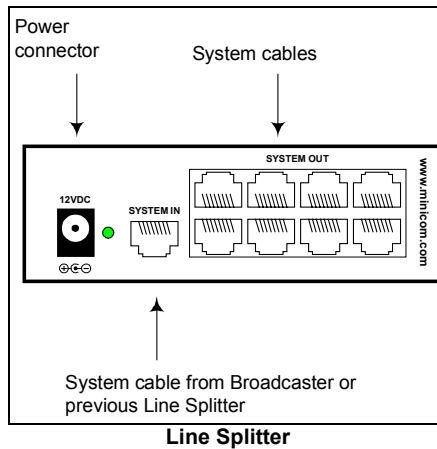
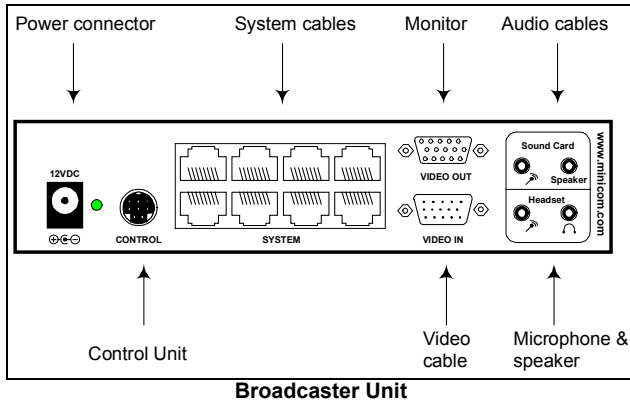
- Broadcast a computer screen with audio to all remote monitors/speakers
- Darken all remote screens (audio broadcast is unaffected)
- Release the remote screens to allow local monitor viewing (when remote computers are connected).

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

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

3. The AVDS units

The figures below illustrate the Broadcaster Unit, Line Splitter and Remote Dongles.



4. Expanding the AVDS system

You can expand the AVDS system to 512 Remote Dongles. This is done by having up to 2 levels of Line Splitters. Each Line Splitter on level 1 can have 8 Remote Dongles or Line Splitters connected to it. Each Line Splitter on level 2 can have 8 Remote Dongles connected to it. (See the configuration diagram on page 4).

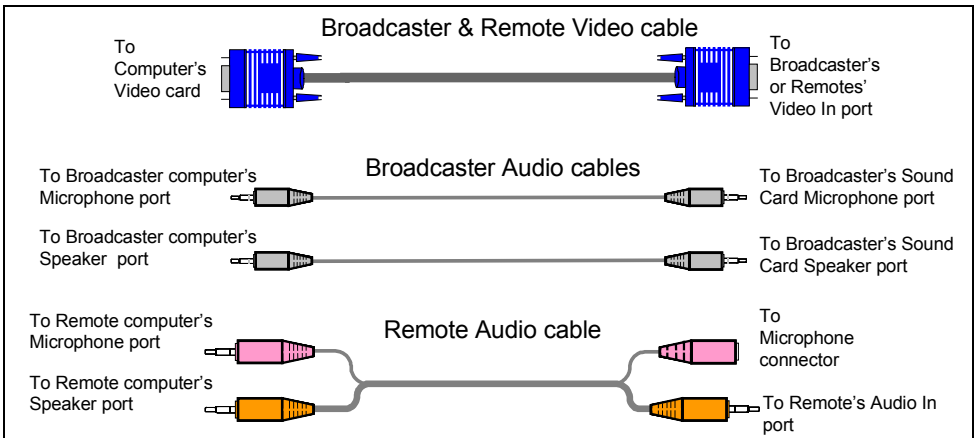
5. Pre-installation instructions

Note! In the AVDS 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 cables

The AVDS cables are illustrated below.



The Remote Video and Audio cables

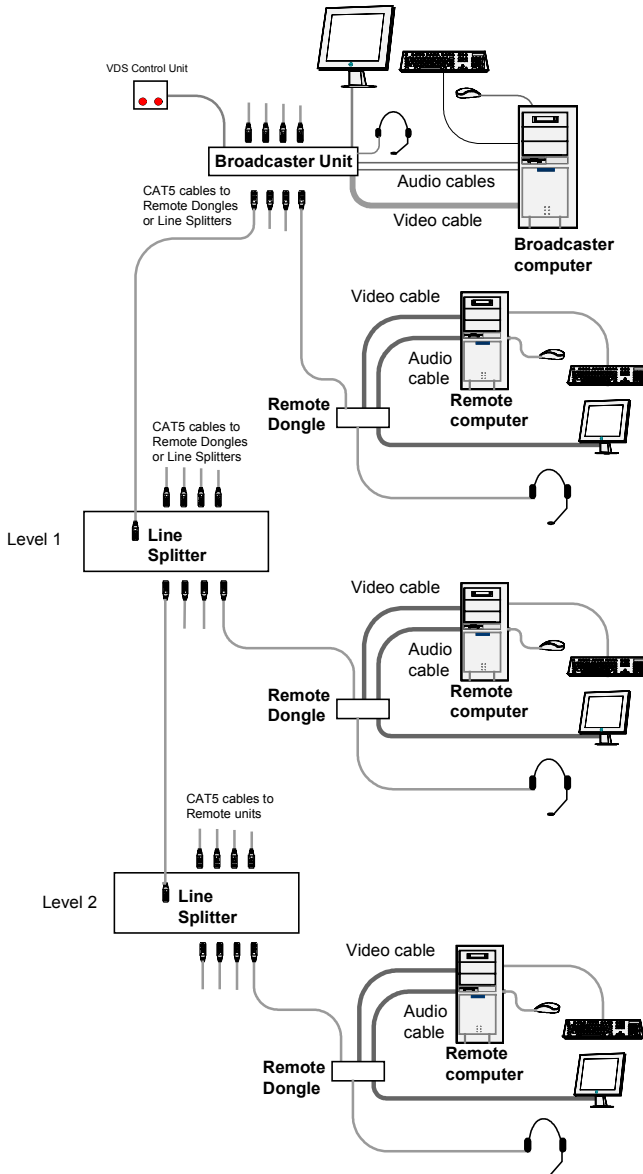
The Remote Video and Audio cables are only used with the Remote Dongle when the Dongle is connected to a computer.

Power supply

Connect the Broadcaster and Line Splitters to the power supply with the 12 VDC, 2A from the AC/DC adapter provided. The Remote Dongles receive 12 VDC, 160 mA via the CAT5 cables from the Broadcaster or Line Splitter.

7. The AVDS configuration for a CBT application

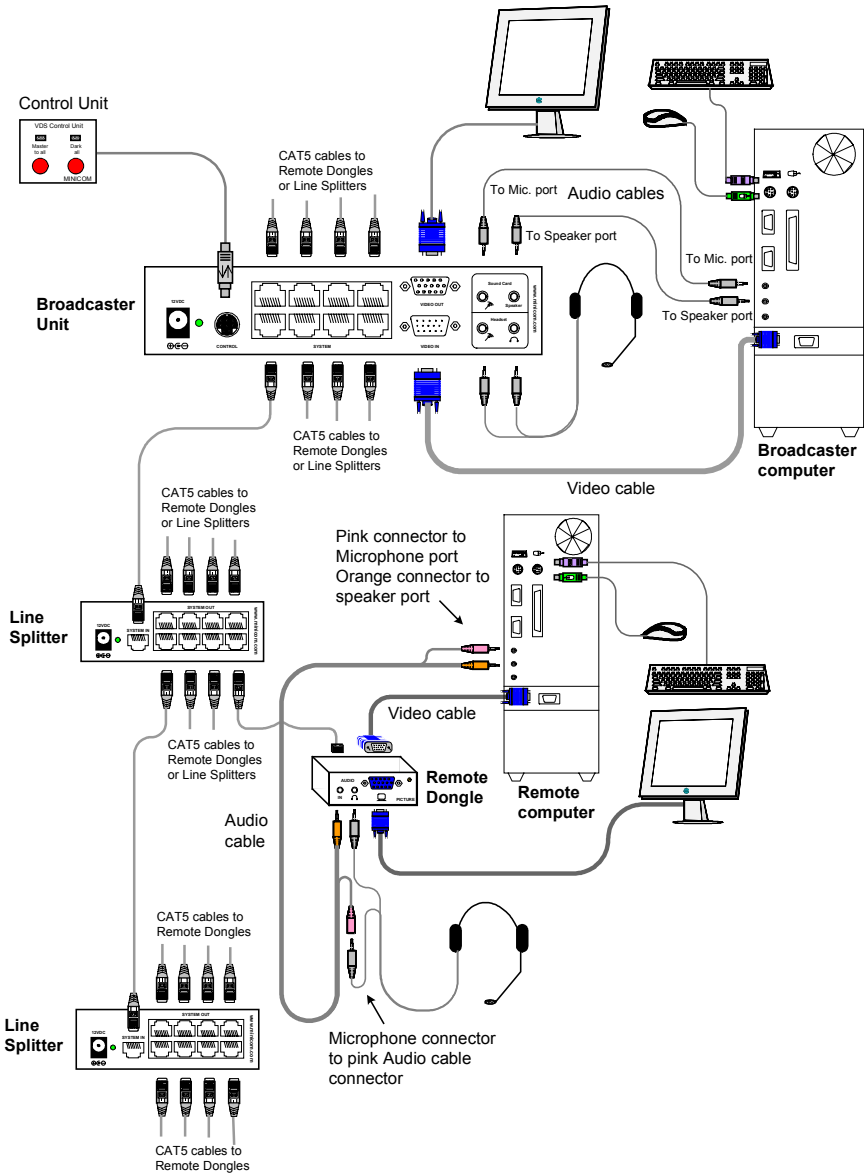
The figure below illustrates the AVDS configuration with the AVDS Control Unit and the optional remote computers.



CAT5 AUDIO/VIDEO DISPLAY

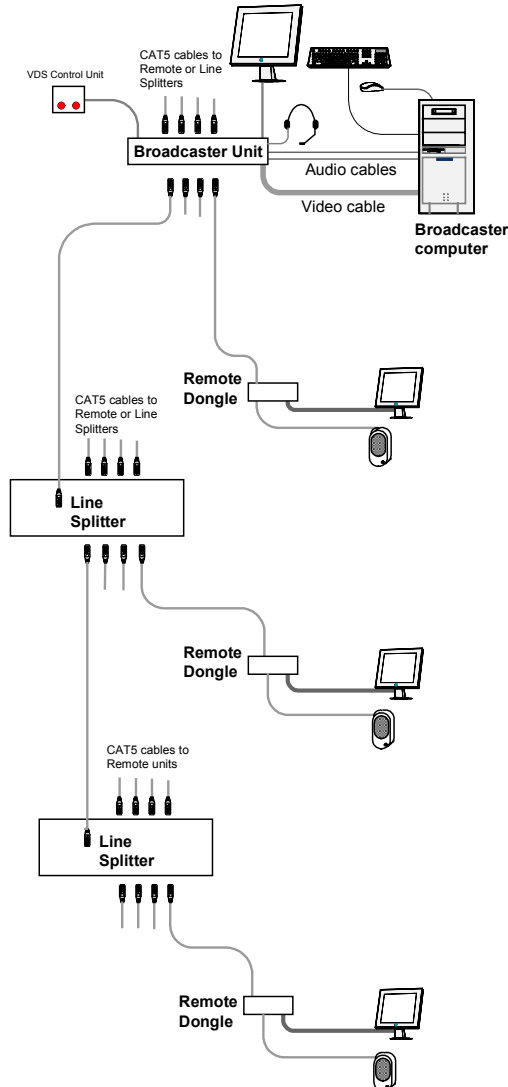
8. AVDS detailed connections

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

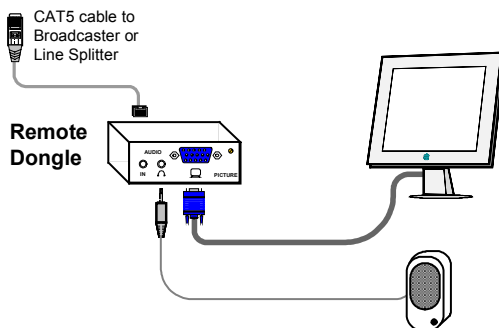


9. The AVDS configuration without remote computers

The figure below illustrates the AVDS configuration without optional computers connected to the Remote Dongles. Connect the Broadcaster and Line Splitters as in the figure on page 5. The figure on page 7 illustrates the detailed connections of the Remote Dongle.



CAT5 AUDIO/VIDEO DISPLAY



10. Operating the AVDS system

Once connected the AVDS system broadcasts to all remote monitors/speakers.

The Control Unit

The Control Unit is illustrated below.



With the Control Unit carry out the following functions:

Master to all

Press the **Master to all** button to send the broadcaster'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.

Dark all

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

Press the button again to release the remote screens.

11. Adjusting the picture quality

Use a small screwdriver to turn the Picture adjuster on the Remote Dongle to adjust the picture quality.

12. Technical specifications

SYSTEM

Resolution	Up to 1600x1200 @ 75 Hz
System cable	Shielded CAT5 FTP cable
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	Up to 50°C/122°F
Storage Temperature	-40°C to 70°C/-40°F to 158°F
Audio frequency response	150Hz-20kHz
Humidity	80% non condensing relative humidity
Warranty	3 Years

	BROADCASTER	LINE SPLITTER	REMOTE
Cables & Connectors	VGA In - HDD15M	System In - RJ45	System In - RJ45
	VGA Out - HDD15F	System Out - RJ45	CPU VGA - HDD15M
	System Out - 8 Ports RJ45		Screen - HDD15F
	Mic/Headphone/Sc In/Out – Jack		Audio In/Out - Jack
	Controller - MiniDin8F		
Dimensions	175 x 96 x 42mm	118 x 96 x 42mm	78 x 62 x 32mm
Power supply	AC/DC Power Adapter 12VDC 2A	AC/DC Power Adapter 12VDC 2A	From previous unit
Order Number	0VS22011	0VS22012	0VS23004

42U DirectNET
1-800-638-2638
www.42U.com