MINICOM
ADVANCED SYSTEMS

CAT5 Video Display

Quick Installation Guide

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CAT5 VIDEO DISPLAY

1. What is the CAT5 Video Display system?

The CAT5 Video Display (VDS) system from Minicom broadcasts real-time high-resolution video signals to hundreds of remote display monitors.

The VDS system consists of the following:

- Broadcaster + Control Unit
- Line Splitters to expand the system
- Remote Dongles that connect to each remote monitor/computer

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

This Quick Installation Guide illustrates the VDS system and explains how to install and operate it.

2. The multi-functional VDS system

You can use the VDS system in the following ways:

(A) Without the Control Unit

The VDS system constantly broadcasts a computer screen to all remote monitors.

(B) With the Control Unit

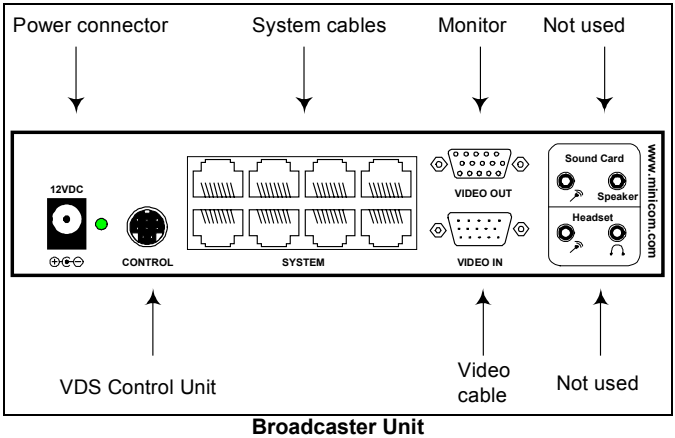
- Broadcast a computer screen to all remote monitors
- Darken all remote screens
- Release the remote screens to allow local monitor viewing (when remote computers are connected).

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

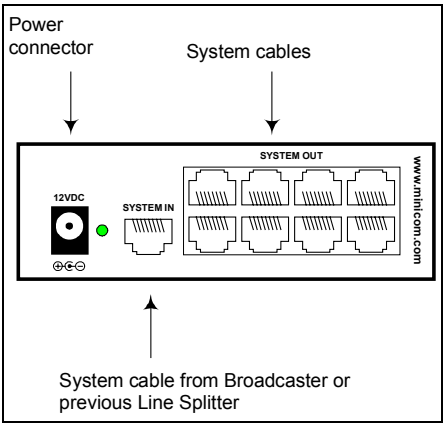
With both applications broadcast the video up to resolutions of 1600 x 1200 @ 75Hz depending on the cable length.

3. The VDS units

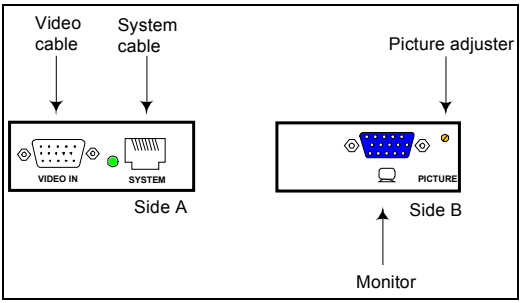
The figures below illustrate the Broadcaster Unit, Line Splitter and Remote Dongles.



Broadcaster Unit



Line Splitter



Remote Dongle

4. Expanding the VDS system

You can expand the VDS 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).

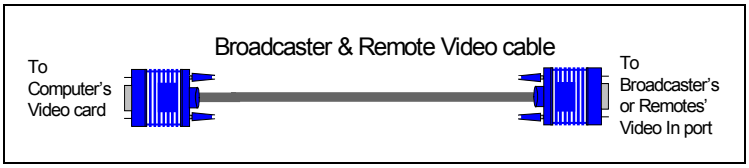
5. Pre-installation instructions

Note! In the VDS system the CAT5 UTP or FTP 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 cable.

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

6. The VDS cables

The VDS cables are illustrated below.



The Remote Video cable

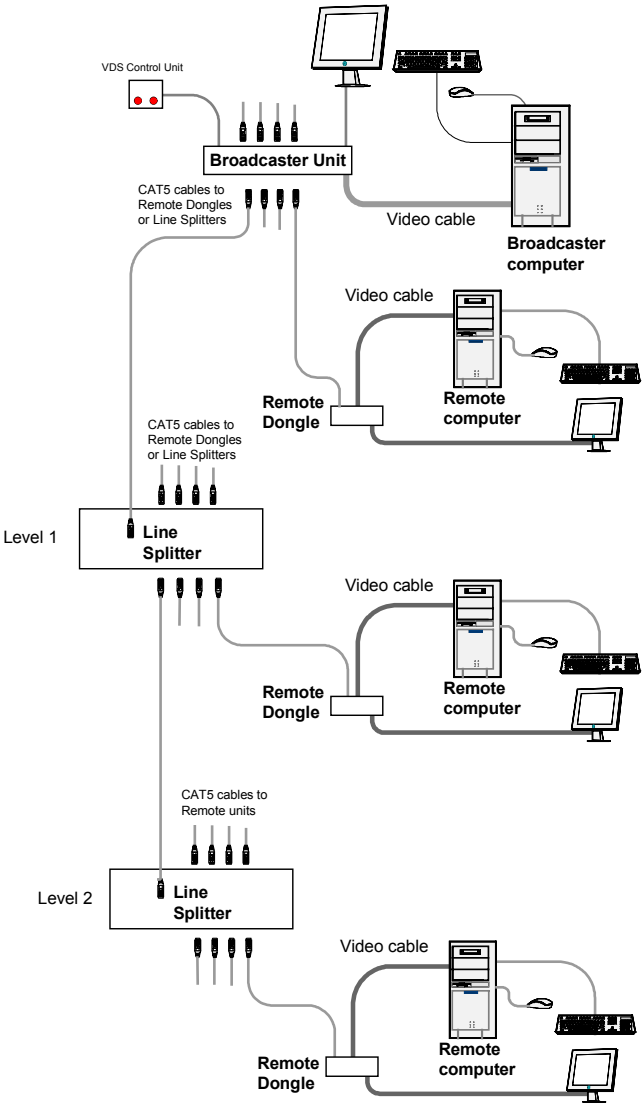
The Remote Video cable is only used with the Remote Dongle when the Dongle is connected to a computer.

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.

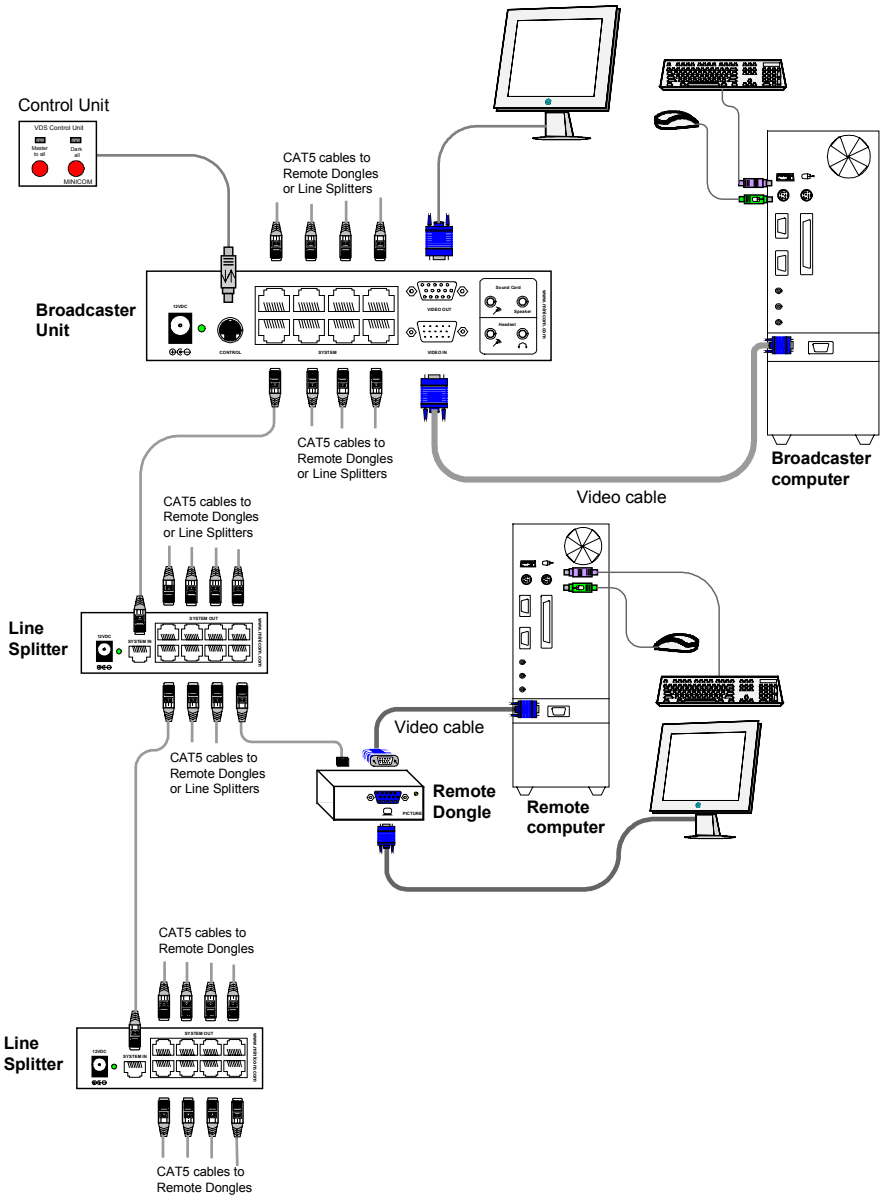
7. The VDS configuration for a CBT application

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



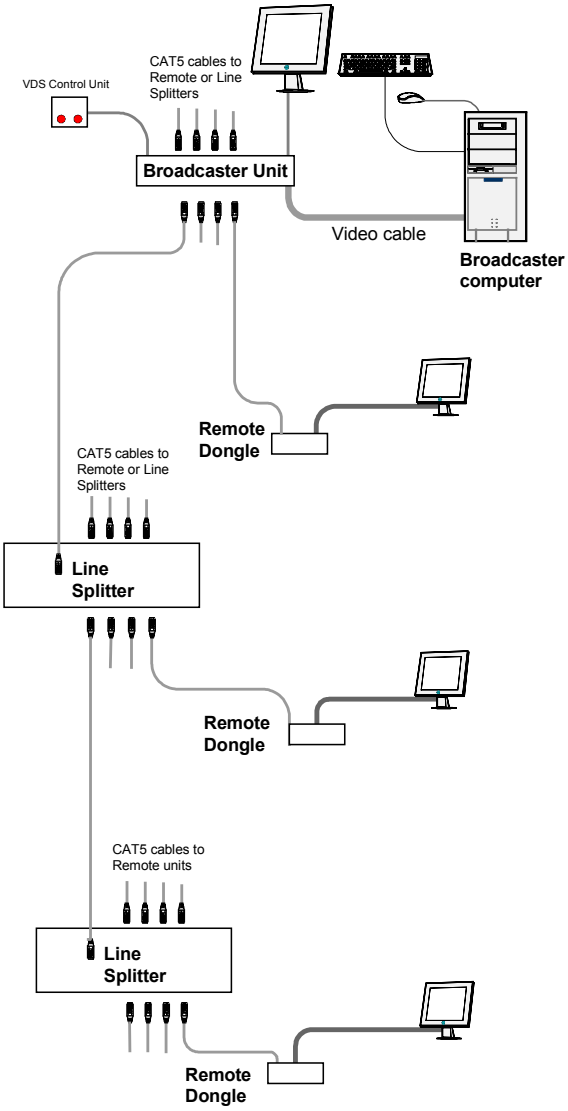
8. VDS detailed connections

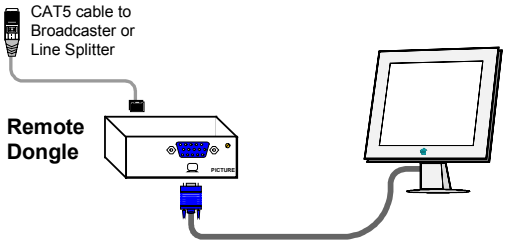
The figure below illustrates the detailed connections of the VDS units.



9. The VDS configuration without remote computers

The figure below illustrates the VDS 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.



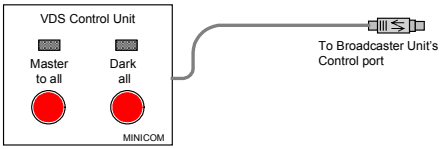


10. Operating the VDS system

Once connected the VDS system broadcasts to all remote monitors.

The VDS Control Unit

The VDS Control Unit is illustrated below.



With the VDS Control Unit carry out the following functions:

Master to all

Press the **Master to all** button to send the broadcaster's screen to all remote monitors. The LED above the button lights up.

Press the button again to release the remote monitors.

Dark all

Press the **Dark all** button to darken all remote monitors. The LED above the button lights up.

Press the button again to release the remote monitors.

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	CAT5 UTP or FTP 2x4x24 AWG Solid Wire Conductor 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
Operating temperature	0ºC to 40ºC/32ºF to 104ºF
Storage temperature	-40ºC to 70ºC/-40ºC to 158ºF
Humidity	80% non condensing relative humidity
Warranty	3 Years

	BROADCASTER	LINE SPLITTER	REMOTE
Cables & Connectors	VGA In - HDD15M VGA Out - HDD15F System Out - 8 Ports RJ45 Control - MiniDin8F	System In - RJ45 System Out - RJ45	System In - RJ45 CPU VGA - HDD15M Screen - HDD15F
Dimensions	175 x 96 x 42mm/ 0.57 x 0.38 x 0.14ft	118 x 96 x 42mm/ 0.39 x 0.38 x 0.14ft	78 x 62 x 23mm/ 0.31 x 0.26 x 0.07ft
Power supply	External Power Adapter 12VDC 2A	External Power Adapter 12VDC 2A	From previous unit through CAT5 cable
Order Number	0VS22011	0VS22012	0VS23004