VGA Extender

User Guide

w w w . m i n i c o m d i g i t a l s i g n a g e . c o m

International HQ
Dübendorf, Switzerland
Tel: +41 44 823 8000
ds@minicom.com

North American HQ
Linden, NJ, USA
Tel: + 1 908 486 2100
ds.usa@minicom.com

European HQ
Dübendorf, Switzerland
Tel: + 41 44 823 8000
ds.europe@minicom.com

Technical support - ds.support@minicom.com

5UM40184 V1 2/09

1. What is the VGA Extender?

The VGA Extender from Minicom extends video (VGA) signals up to 110m/360ft (depending on resolution).

2. Features

- Supports distances up to 110m/360ft
- Supports CAT5/5e/6/7 FTP/UTP cable
- Support resolution up to 1080p / 1920 x 1080 @ 60Hz (depending on cable length)
- Plug-and-play installation – no extra protocols needed
- Cascadable - add VDS Line Splitters to increase the number of Receivers
- 3 year warranty

3. System Components

- VDS Transmitter
- VDS Dual Screen (Receiver)
- Optional CAT5 VDS Line Splitter

4. Connecting the VGA Extender system

The figure below illustrates the VGA Extender system overview. Connect the Receiver to 1 or 2 screens, up to 110m/360ft away from the Transmitter (depending on resolution).

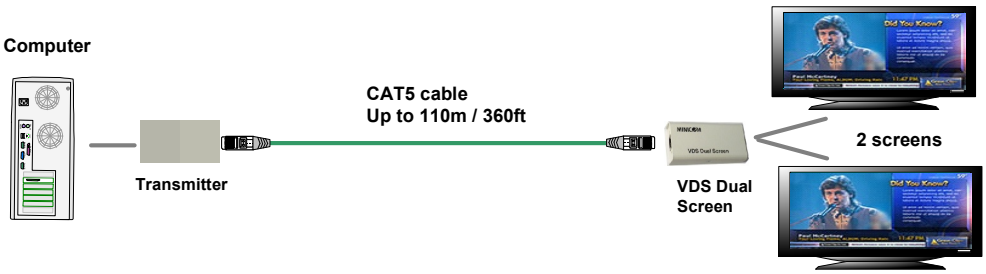
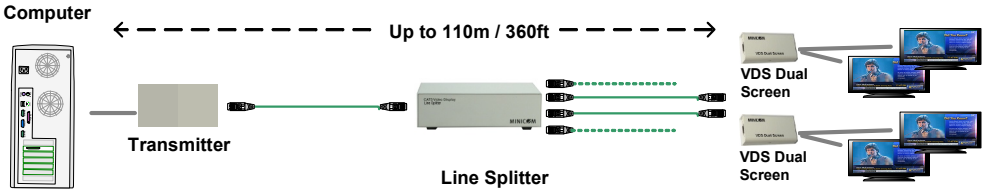


Figure 1 The VGA Extender system overview

The figure below illustrates the VGA Extender system with a connected Line Splitter adding up to 14 more screens to the system. (With cascading you can have a maximum of 64 screens).



5. Pre-installation guidelines

- Switch off the computer
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise

6. Connecting the Transmitter

Connect the Transmitter as illustrated in Figure 2.

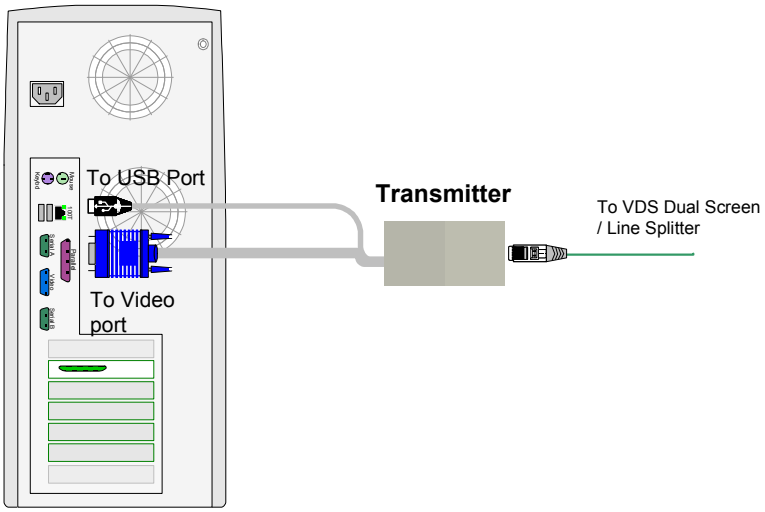


Figure 2 Transmitter connections

Note! Although we recommend connecting the Transmitter to a switched off computer, you can connect it to a switched on computer.
To do so, you must connect it in the following order:

1. USB connector.
2. Video connector.

7. Connecting the Receiver

Connect the VDS Dual Screen Receiver as illustrated below.

Figure 3 VDS Dual Screen connections

8. Connecting the CAT5/6/7 cable

A CAT5/6/7 cable connects to the RJ45 ports of the Transmitter and the VDS Dual Screen.

9. Power supply

Connect the supplied 5VDC Power adapter to the Receiver. The Transmitter receives its power from the connected computer or optional external power supply.

10. Connecting the Line Splitter

Connect up to 64 screens by adding up to 2 levels of CAT5 Video Display Line Splitters to the VGA Extender system. Figure 4 illustrates the ports of the Line Splitter and Figure 5 illustartes the detailed connections of the system sincluding the Transmitter, the Recievers and a Line Splitter. For the Line Splitter connect the supplied 12VDC Power adapter.

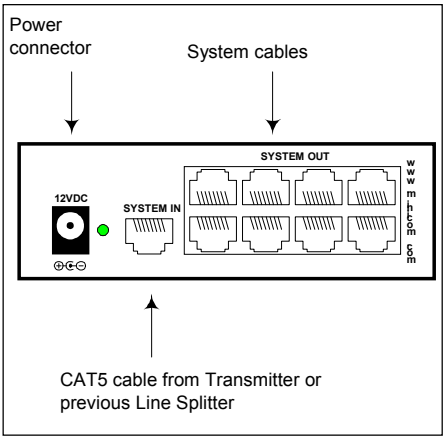


Figure 4 Line Splitter

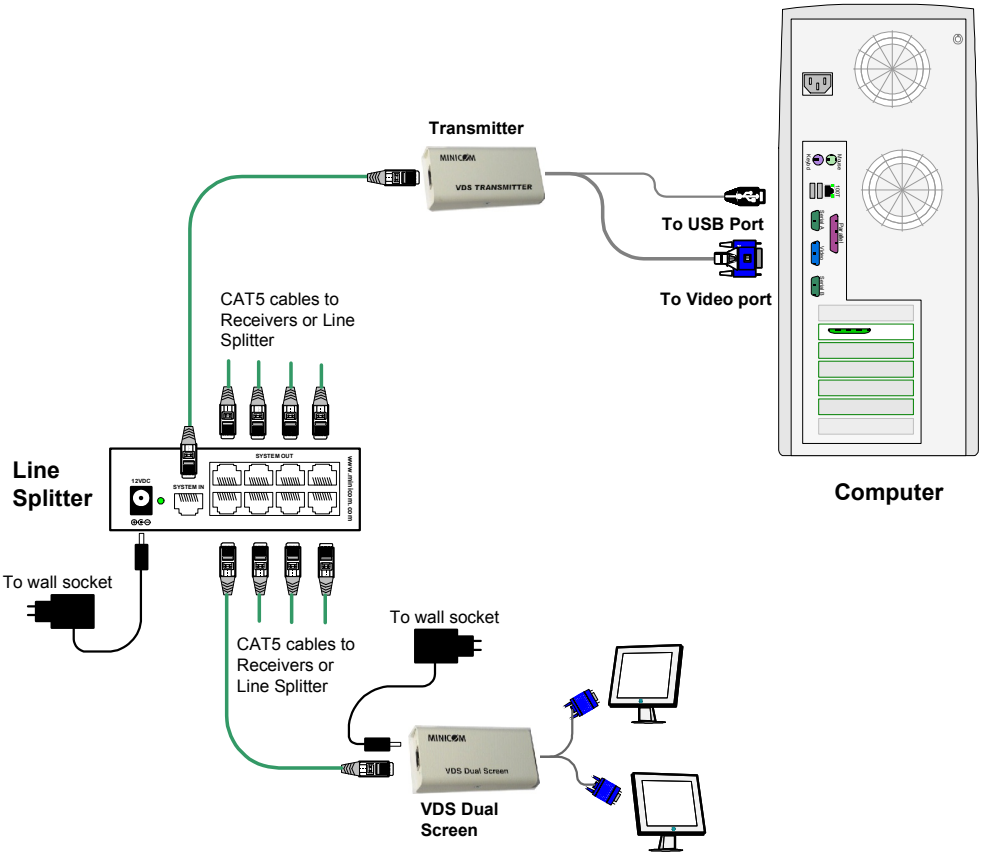


Figure 5 Detailed connections

11. LED indicators

Both the Transmitter and Receiver have 2 LEDs above the RJ45 port.

The green LED indicates power is on. The flashing yellow LED indicates the system is connected.

12. Switching on

Before switching on the computer connect the Transmitter. When fully connected, the VGA Extender system is ready to transmit video signals.

13. Picture adjuster

To get a clear projected image, use a screwdriver to turn the picture adjuster on the VDS Dual Screen Receiver unit. Note: To see a difference you have to turn the picture adjuster several times.

14. Technical specifications

System

System cable	CAT5/6/7 cable 2x4x24 AWG Solid Wire
Maximum distance	110m/360ft
Screen resolution	Up to 1920X1080 @ 60Hz (depending on cable length)
Warranty	3 years
Operating temp.	0ºC to 40ºC/32ºF to 104ºF
Storage temp.	-40°C to 70°C/-40ºF to 158ºF
Humidity	80% non condensing relative humidity

	Transmitter	**Receiver**
Cables & Connectors	VGA – HDD15M System – RJ45	2x VGA – HDD15F System – RJ45
Power supply	From connected computer	External switching power adapter 5V DC 110/240
Dimensions	89 x 46 x 25.3mm / 3.5 x 1.8 x 0.9”	
Shipping weight	552g/1.21lb	