

VIDEO EXTENDER



USER MANUAL

VE-120

Read this guide thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the units and/or any devices that connect to them.

This package contains:

- 1 VE-120L Video Extender (Local Unit)
- 1 VE-120R Video Extender (Remote Unit)
- 1 VGA Cable
- 2 Power Adapters
- 1 User Manual

If anything is damaged or missing, contact your dealer.

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Manual Part No. PAPE - 1141-200
Printed in Taiwan 07/2008

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Subpart J of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ Reorient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- ◆ Consult the dealer or an experienced radio/television technician for help.



OVERVIEW

The VE-120 Video Extender System allows you to extend the distance between the computer system unit and the display monitor by up to 130 meters (430 feet). It accomplishes this by means of a local transmitting unit (VE-120L), and remote receiving unit (VE-120R), connected by Category 5 twisted pair Ethernet cable.

The VE-120 Video Extender System is ideal for factory and construction sites, or any installation where the display needs to reside in a harsh setting, but you want the system equipment kept in an environmentally friendly location.

The Extender System is also useful for control and security purposes, where you can have the system unit in a secure area at the same time that you put the display in an area that is convenient for viewing.

Other useful applications for the Video Extender system include:

Financial: The remote display of stock market information.

Education: The remote display of lectures and lessons to lecture halls and classrooms.

Business: The remote display of addresses to overflow rooms; video conferencing; and demos.

FEATURES

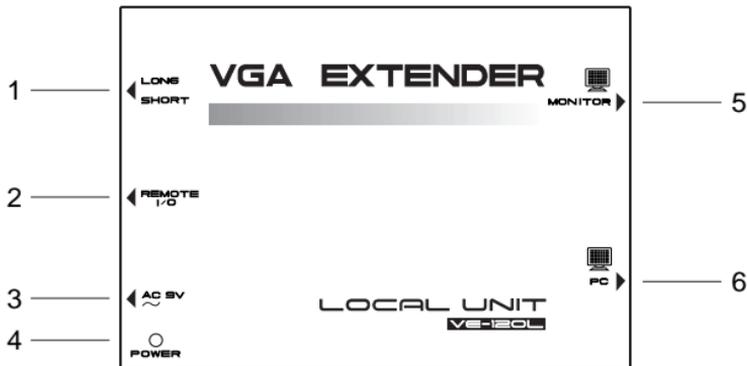
- ◆ Uses economical, reliable, Category 5 Ethernet cable to connect the local and remote units
- ◆ Easy installation - connecting cables is all it takes
- ◆ High resolution video - up to 1024 x 768
- ◆ Supports VGA, SVGA, and Multisync Monitors
- ◆ Long distance transmission - up to 130m (430')

SYSTEM REQUIREMENTS

- ◆ A PC compatible computer with a VGA output port
- ◆ A VGA, SVGA, or Multisync monitor

COMPONENTS

THE LOCAL UNIT (VE-120L)



1. Range Switch

Slide the switch to the **Long** position if the Remote Unit is located a long distance away; slide the switch to the **Short** position if the Remote Unit is located a short distance away.

2. Remote I/O

The Category 5 twisted pair cable that connects to the Remote Unit plugs in here.

3. AC 9V Power Jack

The AC 9V power adapter's cable plugs in here.

4. Power LED

Lights to indicate that the unit is receiving power.

5. Monitor

The local monitor's VGA cable plugs in here.

6. PC

The VGA cable (supplied with this package) that connects to the computer's VGA port plugs in here.

THE REMOTE UNIT (VE-120R)



1. Remote I/O

The Category 5 twisted pair cable that connects to the Remote Unit plugs in here.

2. AC 9V Power Jack

The AC 9V power adapter's cable plugs in here.

3. Power LED

Lights to indicate that the unit is receiving power.

4. Monitor

The local monitor's VGA cable plugs in here.

INSTALLATION



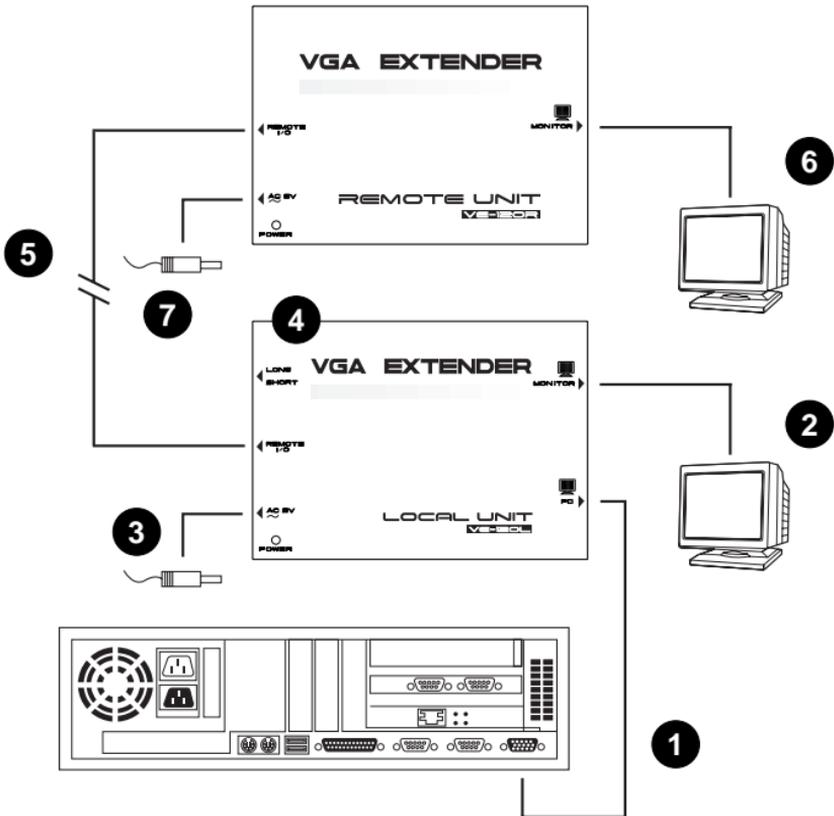
1. Make sure that power to all the devices you will be connecting up has been turned off. If your computer has the *Keyboard Power On* function, you must unplug its power cord.
2. To prevent damage to your installation, make sure that all devices are properly grounded.

Setting up the Video Extender System is simply a matter of plugging in the cables. Refer to the diagram below as you perform the following installation procedures. The numbers in the diagram correspond to the numbers of the steps:

1. Plug the male end of the VGA cable (supplied with this package) into the computer's video output port; plug the female end of the cable into the Local Unit's PC port.
2. Plug the local monitor's VGA cable into the Local Unit's Monitor port.
3. Plug one of the power adapters (supplied with this package) into an AC source; plug the adapter's power cable into the Local Unit's AC 9V Power Jack.
4. Slide the Local Unit's Range Switch (see p. 3) to the **Long** position if the Remote Unit location is a long distance away; slide the switch to the **Short** position if the Remote Unit location is a short distance away.
5. Plug either end of a Category 5 cable into the Local Unit's Remote I/O port; plug the other end of the Category 5 cable into the Remote Unit's I/O port.

- Note:**
1. Category 5 cable is not supplied with this package. It requires a separate purchase. The cable can be up to 130m long.
 2. See the Cable Length table, p. 7, for typical resolution/refresh rate/distance ratios.

6. Plug the remote monitor's VGA cable into the Remote Unit's Monitor port.
7. Plug the second power adapter (supplied with this package) into an AC source; plug the adapter's power cable into the Remote Unit's Power Jack.
8. Power On the computer and monitors.



APPENDIX

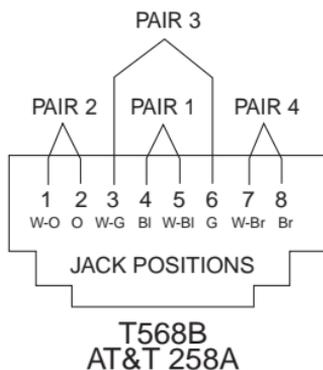
CABLE LENGTH TABLE

Resolution	Distance (meters)		
	@ 60Hz	@ 75Hz	@ 85Hz
640 x 480	130	100	
800 x 600	100		
1024 x 768	100		

TP PIN ASSIGNMENTS

Pin	Assignment
1	V OUT G
2	/V OUT G
3	V OUT B
4	V OUT R
5	/V OUT R
6	/V OUT B
7	GND
8	GND

TP WIRING DIAGRAM



TROUBLESHOOTING

Symptom	Action
No Video	Make sure that all cables are securely plugged into their sockets.

SPECIFICATIONS

Function		VE-120L	VE-120R
Connectors	Input	15 pin HDB male	RJ-45 Socket
	Output	15 pin HDB female RJ-45 Socket	15 pin HDB female
LEDs		1 Power	
Video Resolution		640 x 480 @ 130m - 1024 x 768 @ 100m	
Signal Type		VGA, SVGA, Multisync	
Cable	Type	Category 5 STP	
	Length	130m (430')	
Power Consumption		AC 9V 130mA (max)	AC 9V 180mA (max)
Housing		Metal	
Weight		.24Kg	.22Kg
Dimensions (L x W x H)		11.9 x 8.6 x 5.8 cm	

LIMITED WARRANTY

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or update. For further inquiries, please contact your direct vendor.

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