

# Extends VGA up to 330 ft.

## Optional Accessories



CAT-5 Cables



VGA Cables

## Related Products



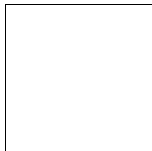
Component Video Extender



Composite Video Extender



1:8 VGA CAT5 Distribution S



2xVGA Extender

## VGA extender LR

**Extends any VGA or Component HD display using a Single CAT-5 cable up to 330 feet from your HD source**

The VGA Extender allows users to extend video signals beyond the A/V rack. The VGA Extender Series can be used to extend an analog signal to cover distances up to 330 feet. Industry standard Category 5e (CAT-5e) cable is used for the extension.

### How It Works

The VGA Extender LR sender unit connects to your source using the supplied cable. The receiver unit connects to your display - up to 330 feet away. One CAT-5 cable connects the sender and the receiver to each other, extending your video flawlessly.

**Note:** This is a new VGA Extender that goes double the distance of the previous version, and also has a trimpot for fine video adjustment.

### Features:

- Extends any VGA or high definition component display up to 330 feet (100 meters)
- One CAT-5e cable for extension
- Supports resolutions up to 1080p, 2K, and 1920 x 1200

### Specifications:

- Video Amplifier Bandwidth: 350 MHz
- Input Video Signal: 1.2 volts p-p
- Input Sync Signal: 5 volts p-p (TTL)
- Horizontal Frequency Range: 15-70 KHz
- Vertical Frequency Range: 30 - 170 Hz
- Video In: HD-15 male
- Video out: HD-15 female
- Link Connector: RJ-45 Shielded
- Power Supply: 5V DC
- Power Consumption: 5 watts (max.)
- Dimensions: 1"W x 1"H x 4"D
- Shipping Weight: 3 lbs.

### Package Includes:

- VGA Extender S Sender Unit
- VGA Extender R Receive Unit
- 6 foot VGA cable (M-F)
- One 5V external power supply



**1080P**  
PROGRESSIVE

EXT-VGA-141LR

# Gefen

## VGA Extender LR

EXT-VGA-141LR

User Manual



[www.gefen.com](http://www.gefen.com)

## ASKING FOR ASSISTANCE

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### Technical Support:

Telephone (818) 772-9100  
(800) 545-6900

Fax (818) 772-9120

### Technical Support Hours:

8:00 AM to 5:00 PM Monday thru Friday.

### Write To:

Gefen Inc.  
c/o Customer Service  
20600 Nordhoff St  
Chatsworth, CA 91311

[www.gefen.com](http://www.gefen.com)  
[support@gefen.com](mailto:support@gefen.com)

### Notice

Gefen Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

**VGA Extender LR** is a trademark of Gefen Inc.

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# INTRODUCTION

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Congratulations on your purchase of the VGA Extender LR. Your complete satisfaction is very important to us.

## **Gefen**

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

## **The Gefen VGA Extender LR**

The VGA Extender allows users to extend video signals beyond the A/V rack. The VGA Extender Series can be used to extend an analog signal to cover distances up to 330 feet. Industry standard Category 5e (CAT-5e) cable is used for the extension.

## **How It Works**

The VGA Extender LR sender unit connects to your source using the supplied cable. The receiver unit connects to your display - up to 330 feet away. One CAT-5 cable connects the sender and the receiver to each other, extending your video flawlessly.

Note: This is a new VGA Extender that goes double the distance of the previous version, and also has a trimpot for fine video adjustment.

## OPERATION NOTES

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### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE VGA EXTENDER LR

- Display information (EDID) is not sent back to the source. Standard VESA resolutions should be output by most computers without the need of an EDID. If using a non-VESA standard resolution or if EDID is needed, an EDID storage and relay device is necessary. Gefen recommends the use of a DVI Detective (part# EXT-DVI-EDID, EXT-DVI-EDIDN, or EXT-DVI-EDIDP) with two VGA to DVI adapters.
- Use industry standard Category-5 (CAT-5) cable to operate the VGA Extender LR system. CAT-5e cable is preferred.
- Please connect all the cables between the computer and the VGA Extender LR before powering up the VGA Extender LR unit.
- The VGA Extender LR units are housed in a metal box for better RF shielding.

# FEATURES

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## Features

- Extends any VGA or high definition component display up to 330 feet (100 meters)
- One CAT-5e cable for extension
- Supports resolutions up to 1080p, 2K, and 1920 x 1200

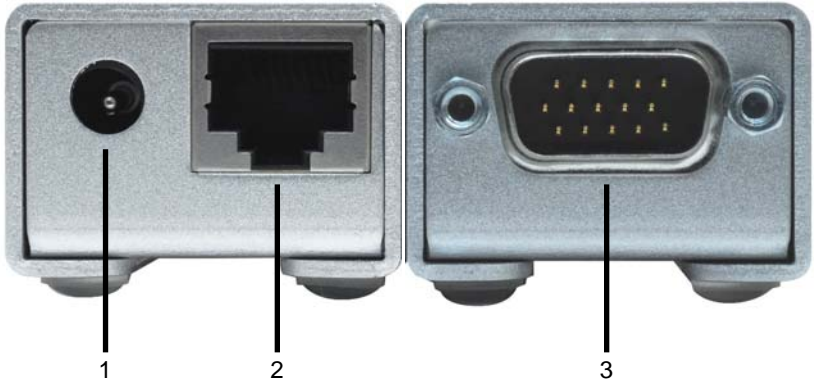
## Package Includes

- (1) VGA Extender S Sender Unit
- (1) VGA Extender R Receive Unit
- (1) 6 Foot VGA cable (M-F)
- (1) 5V external power supply
- (1) User's Manual

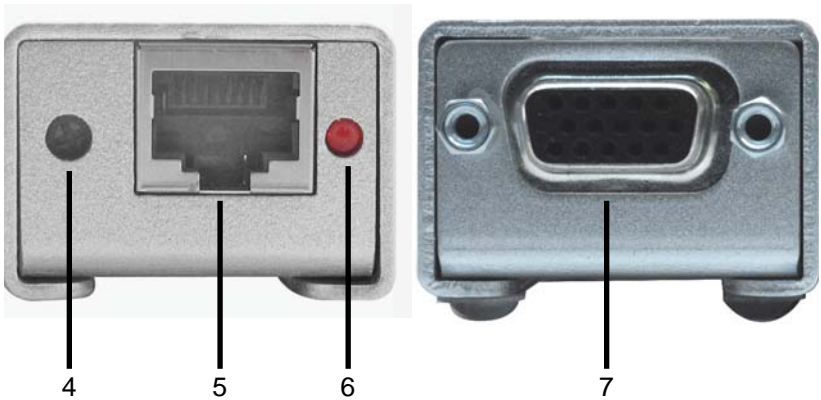
# PANEL LAYOUT

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## Sender Unit Panel



## Receiver Unit Panel



## PANEL DESCRIPTIONS

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### **1 5V DC Power Supply Input**

Connect the included 5V DC power supply to this input. Power for the receiving unit will be provided over the CAT-5e cable that connects the sending and receiving units together.

### **2 Sender RJ-45 Input**

Connect a CAT-5e cable (terminated according to the TIA/EIA-568-B specification. Please see page 7) between the sending and receiving units.

### **3 VGA Input**

Connect the VGA source to this input. EDID is not transmitted from the display through the VGA Extender LR units. If the display has a non-standard VESA resolution, please purchase an EDID storage device (part# EXT-DVI-EDIDN) to record and transmit the displays EDID back to the source.

### **4 Focus Trim Pot**

Adjusting this Trim Pot will sharpen/blur the output video. Please see page 6 for more details.

### **5 Receiver RJ-45 Input**

Connect a CAT-5e cable (terminated according to the TIA/EIA-568-B specification. Please see page 7) between the sending and receiving units.

### **6 Power LED**

This LED will become active once the included power supply is connected and a properly connected CAT-5e cable is joining the sending and receiving units.

### **7 VGA Output**

Connect the VGA display to this output port.

# **CONNECTING AND OPERATING THE VGA EXTENDER LR**

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## **How to Connect the VGA Extender LR**

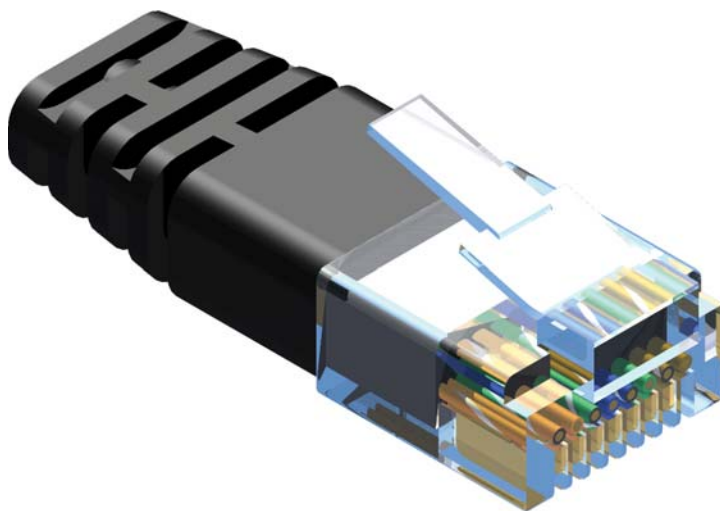
1. Connect the VGA Extender LR sender unit to the VGA output on the back of your computer. The six foot M-F VGA cable connects the CPU and sender unit together.
2. Connect the VGA Extender LR receiver unit to your monitor with the VGA cable that is attached to your monitor.
3. Connect the CAT-5e cable between the VGA Extender LR sender and receiver's CAT5 input.
4. Plug the 5V DC power supply into the sender unit. The VGA Extender LR receiver will draw power from the sender.

## **BRIGHTNESS AND FOCUS TRIM POTS**

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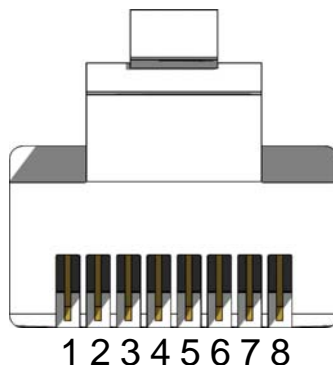
Focus adjustments are found on the receiver unit and will help compensate for issues that can be introduced by outside interference and cable variances. If there is a ghosting or blurring effect on the image, the focus trim pot can be used to eliminate these artifacts. Insert a small flat head device, such as a small screw driver into the focus Trim Pot hole. Turn the Trim Pot in millimeter increments in either a clockwise or counterclockwise direction. Once the desired focus setting has been reached, simply remove the adjustment device from the Trim Pot hole.

## NETWORK CABLE WIRING DIAGRAM



Gefen has specifically engineered their products to work with the TIA/EIA-568-B specification. Please adhere to the table below when field terminating cable for use with Gefen products. Failure to do so may produce unexpected results and reduced performance.

Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown



CAT-5, CAT-5e, and CAT-6 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling. CAT-6 cable is also recommended for best results.

Each cable run must be one continuous run from one end to the other. No splices or use of punch down blocks.