



# Extend analog video and audio

## Optional Accessories



CAT-5 Cables

## VGA Audio Extender

Extends VGA and analog audio up to 150 feet over one CAT-5 cable.

### How It Works

The VGA Audio Extender utilizes a sender and receiver methodology to connect the extended workstation to the computer. Simply connect the sender unit to your computer using the cables provided. Then connect the receiver unit to the display and speakers. CAT5e cables, sold separately, then connect the sender unit to the receiver unit. Both the sender and the receiver units must be connected to a power supply. When fully powered and operational, the units efficiently extend video, audio and control signals.

### Features:

- Extends any VGA or high definition component display and analog L+R audio device up to 150 feet
- Trimpots and dip switches for fine video equalization
- Perfect for digital signage applications
- One CAT-5 cable for extension
- Supports resolutions up to 1080p, 2K, and 1920 x 1200
- Bi-directional audio transmission for speaker and microphone

### 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
- Sample Rate: 5 kHz (min) - 48 kHz (max)
- Frequency Response: 20Hz - 20kHz
- Audio Connector: mini-phone Stereo 3.5mm
- Link Connector: RJ-45 Shielded
- Power Supply: 5V DC
- Power Consumption: 5 watts (max.)
- Dimensions: 4" W x 1.125" H x 3" D
- Shipping Weight: 3 lbs.

### Package Includes:

- VGA Audio Sender Unit
- VGA Audio Receiver Unit
- One 6ft VGA cable
- One 6ft Audio cable
- Two 5V DC Transformer
- User's Manual



EXT-VGA-AUDIO-141



**VGA Audio  
Extender**  
USER MANUAL

## ASKING FOR ASSISTANCE

---

### 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 Audio Extender** is a trademark of Gefen Inc.

# TABLE OF CONTENTS

---

- 1 INTRODUCTION
- 2 OPERATION NOTES
- 3 PANEL DESCRIPTIONS
- 4 INSTALLATION INSTRUCTIONS / LED INDICATORS / TRIM PODS
- 5 CAT5 WIRING DIAGRAM
- 6 SPECIFICATIONS
- 7 WARRANTY

# INTRODUCTION

---

Thank you for purchasing the new VGA Audio Extender by Gefen, Inc. The VGA Audio Extender will extend both VGA and analog audio up to 150 feet over one CAT-5 cable.

## CONTENTS

The VGA Audio Extender package consists of:

- (1) VGA Audio Sender Unit
- (1) VGA Audio Receiver Unit
- (1) 6ft VGA cable
- (1) 6ft Audio cable
- (2) 5V DC Transformer
- (1) User's Manual

## HOW IT WORKS

The VGA Audio Extender utilizes a sender and receiver methodology to connect the extended workstation to the computer. Simply connect the sender unit to your computer using the cables provided. Then connect the receiver unit to the display, speakers, and microphone. CAT5e cables, sold separately, then connect the sender unit to the receiver unit. Both the sender and the receiver units must be connected to a power supply. When fully powered and operational, the units efficiently extend video, audio and mic signals.

## OPERATION NOTES

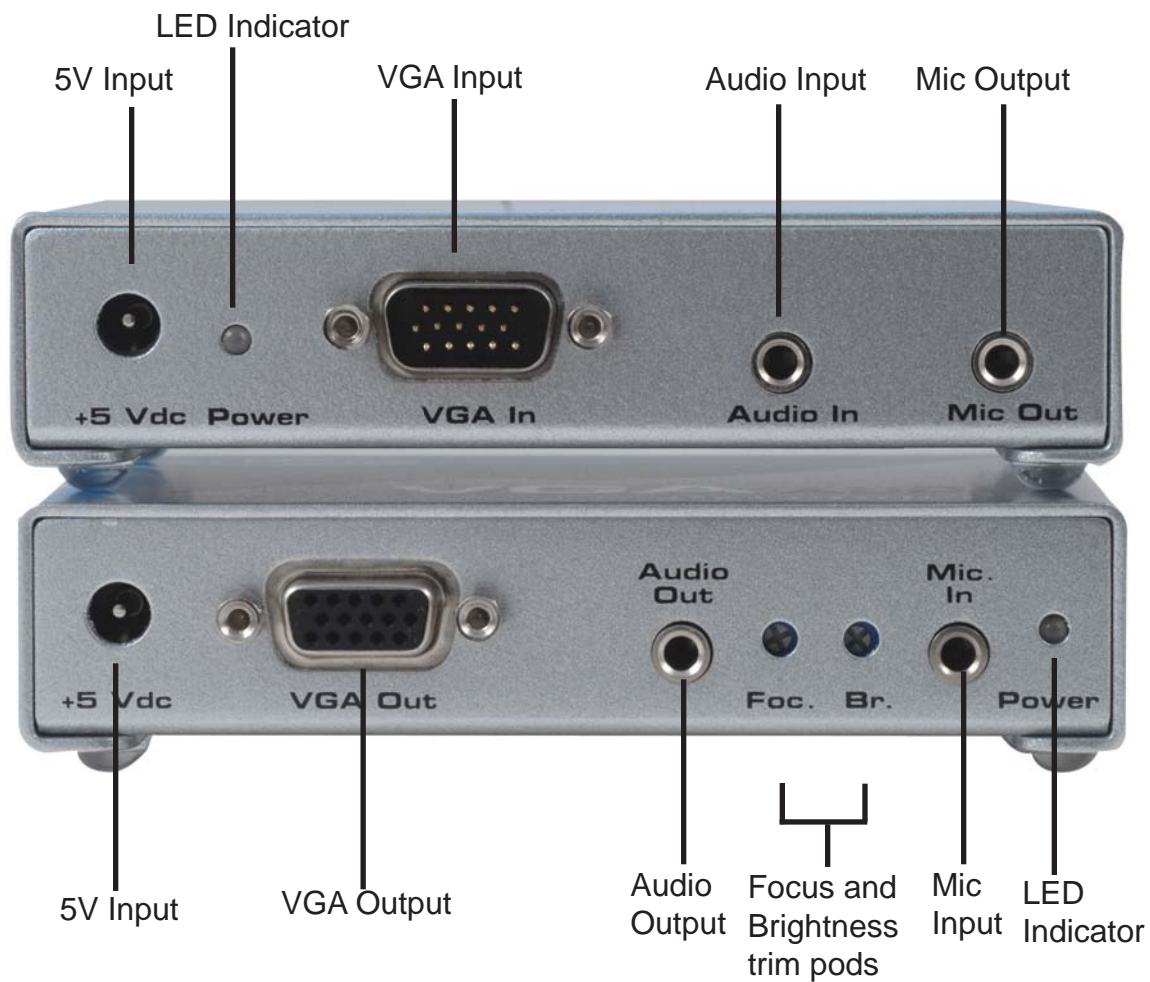
---

### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE VGA AUDIO EXTENDER SYSTEM

- Use industry standard Category-5 (CAT-5) cable to operate the VGA Audio Extender system. CAT-5e cable is preferred.
- Please connect all the cables between the computer and the VGA Audio Extender before powering up the VGA Audio Extender unit.
- The VGA Audio Extender units are housed in a metal box for better RF shielding.



# PANEL DESCRIPTIONS



## **INSTALLATION INSTRUCTIONS**

---

1. Connect your source to the VGA Audio Extender sender unit using the included VGA Cable.
2. Connect your audio and mic source to the VGA Audio Extender sender using the included audio cable (mic cable sold separately).
3. Connect your display to the VGA Audio Extender receiver unit using a VGA Cable.
4. Connect the audio on your display or audio receiver to the VGA Audio Extender receiver unit using the included audio cable. At this point you can also connect your mic to the receiver.
5. Connect your CAT-5 cable between the sender and the receiver.
6. Plug the 5V power supply into the VGA Audio Extender sender and receiver unit.
7. Turn your display on first, then your source and you should now have picture and sound.

## **LED INDICATORS**

---

If you do not get a picture, make sure you have everything connected correctly and that both LED lights on the sender and receiver units should be green. If your LED lights are red, verify that everything is connected correctly. First, make sure you check the VGA cable, connecting from your source to the sender, is attached properly and that your CAT-5 cable, connecting your sender and receiver, is also connected properly. If you continue to see a red light after you have verified that all the cables have been connected correctly, then please contact technical support.

## **BRIGHTNESS AND FOCUS TRIM PODS**

---

If your picture is too dark or if you see a “ghosting” effect on your display, then the trim pods will help correct this problem. If your picture is too dark then the brightness trim pod will help brighten up your display. If your picture has a “ghosting” effect, Then the focus trim pod will help sharpen up your picture.



**RJ-45 Jack**



**White/Orange**

**Orange**

**White/Green**

**Blue**

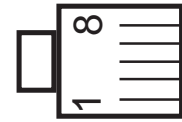
**White/Blue**

**Green**

**White/Brown**

**Brown**

**RJ-45 Jack**



## SPECIFICATIONS

---

Video Amplifier Bandwidth.....	350 MHz
Actual Bandwidth.....	120 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
Sample Rate.....	5 kHz (min) - 48 kHz (max)
Frequency Response.....	20Hz - 20kHz
Audio Connector.....	mini-phone Stereo 3.5mm
Link Connector.....	RJ-45 Shielded
Power Supply.....	5V DC
Power Consumption.....	5 watts (max.)
Dimensions.....	4" W x 1.125" H x 3" D
Shipping Weight.....	3 lbs.

## WARRANTY

---

Gefen Inc. warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen Inc. is notified within two (2) year from the date of shipment, Gefen Inc. will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications.

Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cable must be free from any scratches, markings, and neatly coiled.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen Inc. assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen Inc., be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the VGA Audio Extender features and specifications is subject to change without notice.