

# Gefen

®

## **1:8 VGA CAT-5 Distribution Amplifier**

**EXT-VGA-CAT5-148S  
USER MANUAL**

**Gefen**

  
Power

**VGA CAT-5  
1:8 Distribution S**

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

## ASKING FOR ASSISTANCE

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### Notice

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

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## INTRODUCTION

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One VGA Input, Eight VGA Outputs The 1:8 VGA CAT5 Distribution Amplifier is the perfect solution for anyone who needs to send one source to multiple displays in remote locations at the same time. The 1:8 VGA CAT5 Distribution Amplifier has eight RJ-45 output connector and one VGA input. The 1:8 VGA CAT5 Distribution Amplifier's RJ-45 connectors are connected to up to eight VGA CAT5 Distribution Amplifier receivers using industry standard CAT5 cables. The receivers can be placed up to 330 feet away from the transmitter.

### How it Works

Simply connect your VGA video source to the 1:8 VGA CAT5 Distribution Amplifier's input using the supplied VGA cable. Then connect up to eight VGA displays to the VGA CAT5 receivers over 330 feet using CAT-5 Cable. Then power the 1:8 VGA CAT5 Distribution Amplifier and the receivers will get power from the CAT5. Note: VGA output 1 is the primary connection and is used for the main display.

## OPERATION NOTES

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### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 1:8 VGA CAT5 DA SYSTEM

- Use industry standard Category-5 (CAT-5) cable to operate the 1:8 VGA CAT5 DA system. CAT-5e cable is preferred.
- Please connect all the cables between the computer and the 1:8 VGA CAT5 DA system before powering up the 1:8 VGA CAT5 DA Sender unit.
- The 1:8 VGA CAT5 DA units are housed in a metal box for better RF shielding.

# FEATURES

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## Features

- Distributes easily up to eight VGA displays
- Extends each display up to 330 feet
- Maintains 1920 x 1200 and 1080p resolutions
- Distributes and extends VGA or Component
- Installs in seconds

## Includes:

- (1) 1:8 VGA CAT5 DA (Distribution Amplifier)
- (1) 6 ft. VGA cables (M - F)
- (1) 5 V DC Power Supply
- (1) User Manual

SENDER PANEL DESCRIPTIONS



Power LED



Connects to 5VDC power supply

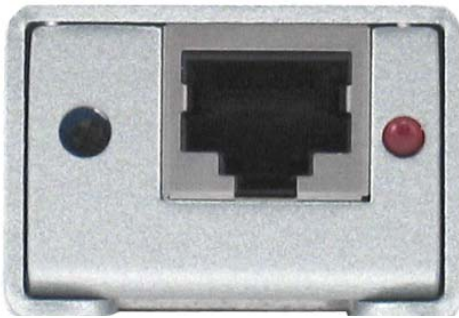
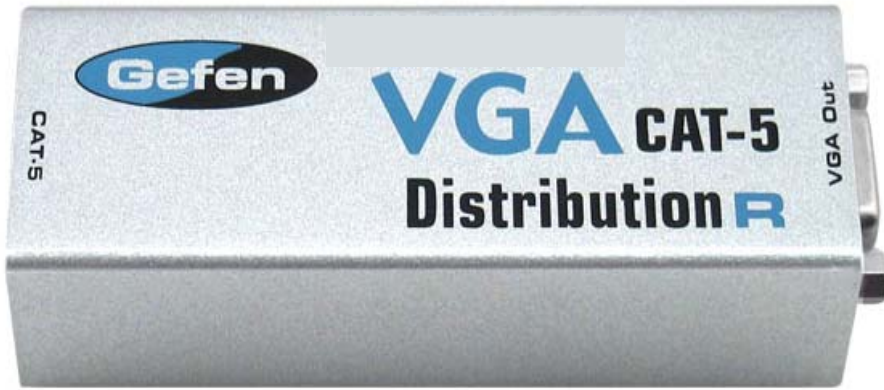
Video CAT5 Out 1-4

VGA Input

Video CAT5 Out 5-8

# RECEIVER PANEL DESCRIPTIONS

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Brightness  
Trim Pot    Video  
CAT5 In    Power  
LED



VGA Out

## **CONNECTING AND OPERATING THE 1X8 VGA CAT5 Distrib. Amp.**

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### **How to Connect the 1:8 VGA CAT5 DA to your devices**

1. Connect the supplied VGA cable from the VGA video source into the 1:8 VGA CAT5 DA Sender "VGA In".
2. Connect a CAT-5e\* cable from the "CAT5 Video Outs" on the 1:8 VGA CAT5 DA Sender to the "CAT5 Inputs" on the VGA CAT5 Distribution Receiver. (Repeat for each Receiver unit)
3. Connect the VGA cable from the display to the "VGA Out" on the VGA CAT5
4. Distribution Receiver. (Repeat for each Receiver unit)
5. Plug the 5VDC power supply into the 1:8 VGA CAT5 DA Sender.

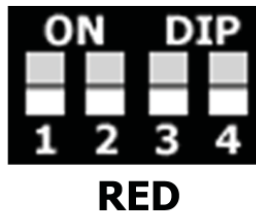
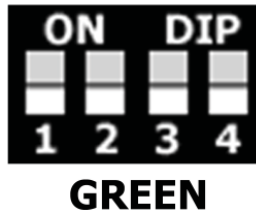
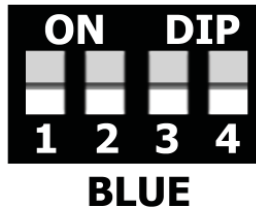
## HOW TO ADJUST THE PICTURE

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The first step in adjusting the video quality is to display text and a graphic on your monitor (i.e. desktop icons). Then set your computer to the resolution that you will be using most frequently. The dip switches are used to set the focus and sharpness of the picture to the best possible setting. Set the dip switches to the settings that are recommended for the different lengths of CAT5 cable (see chart below). Verify that the picture quality is to your satisfaction. If the recommended setting does not produce a great quality picture, try using a different dip switch setting. The trim pod next to the VGA connector on the 1:8 VGA CAT5 DA R allows brightness adjustments for video.

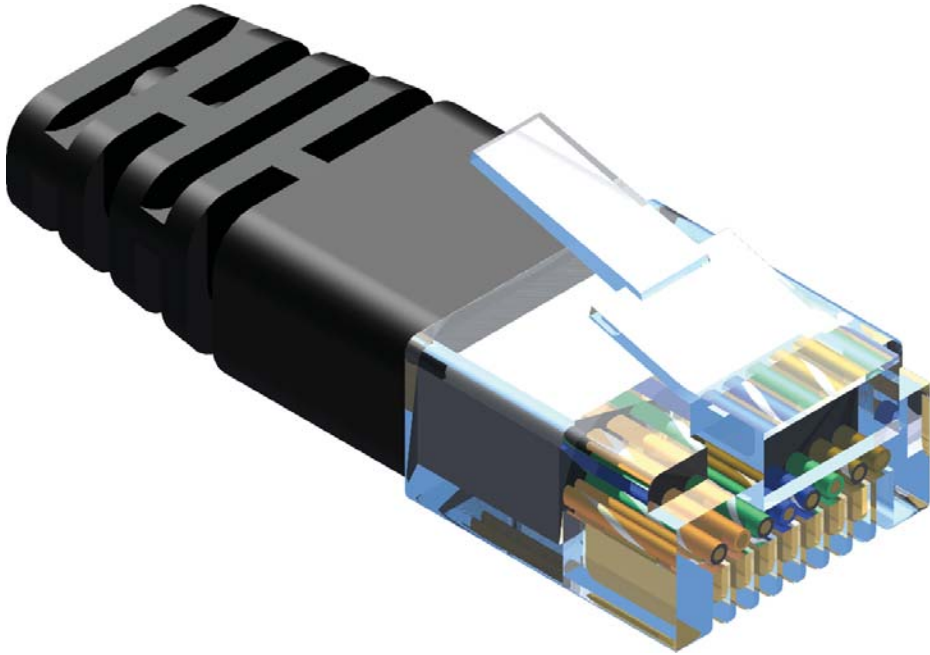
0-25 Feet	All dip switches OFF for all colors.
26-100 Feet	Set dip switch #1 ON all colors. 2,3,4 remain OFF.
101-200 Feet	Set dip switch #2 ON all colors. 1,3,4 remain OFF.
201-300 Feet	Set dip switch #3 ON all colors. 1,2,4 remain OFF.
301 Feet and Up	Set dip switch #4 ON all colors. 1,2,3 remain OFF.

NOTE: The dip switches are set to the OFF position when the switch is closest to the number or in the down position.



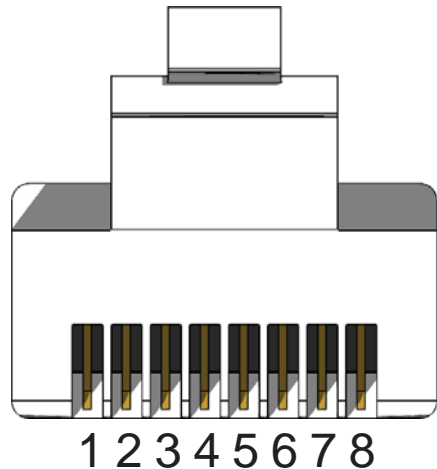
## NETWORK CABLE WIRING DIAGRAM

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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



Category 5 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling.

## SPECIFICATIONS

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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
Video out: .....	HD-15
Link Connector: .....	RJ-45
Power Supply: .....	5 VDC / 8A (External)
Power Consumption: .....	30 Watts (max.)
Sender Dimensions: .....	8.5"W x 1.75" H x 4.5"D
Receiver Dimensions: .....	1"W x 1"H x 4"D
Shipping Weight: .....	4 Lbs.

## WARRANTY

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

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen 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 cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen 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 features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at [www.gefen.com](http://www.gefen.com).

## PRODUCT REGISTRATION

**Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.**





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This product uses UL listed power supplies.