# Distribute up to 8 HD VGA displays

VGA Cables

CAT-5 Cables

**Related Products**

1:8 VGA CAT5 Distribution R

## 1:8 VGA CAT5 Distribution S

### 1:8 VGA CAT5 Distribution Amplifier

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. 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. VGA output 2 through 8 follow the main display. The VGA displays attached to the 1:8 VGA CAT5 Distribution Amplifier MUST have the same native resolution in order to get a picture.

The 1x8 VGA CAT5 Distribution Amplifier will also extend a component signal or composite video w/ L+R analog audio. For this to work, you will need a VGA to Component Cables and a VGA Female to Female Adapter.

### Features:

- Easily distribute one source to eight simultaneous displays
- Extends video signals up to 330 feet over CAT-5e
- Supports component video distribution
- Maintains 1920 x 1200 resolution video
- Allows eight monitors to be connected to the same video source at the same time

### 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
- Video out: HD-15
- Link Connector: RJ-45
- Power Supply: 5 VDC (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: 3 Lbs.

### Package Includes:

- 1:8 VGA CAT5 Distribution Amplifier
- One 6 foot VGA cable (M-F)
- One 5V external power supply

### Product Options:

How many VGA CAT5 Recievers do you need?
- x1 Reciever  ($125.00)
- x2 Reciever  ($250.00)
- x3 Reciever  ($375.00)
- x4 Reciever  ($500.00)
- x5 Reciever  ($625.00)
- x6 Reciever  ($750.00)
- x7 Reciever  ($875.00)
- x8 Reciever  ($1,000.00)

EXT-VGA-CAT5-148S

# Gefen

## 1x8 VGA
## CAT-5 DA
### USER MANUAL

www.gefen.com

# 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 through Friday PST.

**Write To:**

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

www.gefen.com
support@gefen.com

## Notice

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

**1x8 VGA CAT5 DA** is a trademark of Gefen Inc.

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**READ THESE NOTES BEFORE INSTALLING
OR OPERATING THE 1X8 VGA CAT5 DA SYSTEM**

• Use industry standard Category-5 (CAT-5) cable to operate the 1x8 VGA CAT5 DA system. CAT-5e cable is preferred.

• Please connect all the cables between the computer and the 1x8 VGA CAT5 DA system before powering up the 1x8 VGA CAT5 DA Sender unit.

• The 1x8 VGA CAT5 DA units are housed in a metal box for better RF shielding.

Congratulations on your purchase of the ex•tend•it 1x8 VGA CAT5 Distribution Amplifier. Your complete satisfaction is very important to us.

Gefen's line of computer switchers, extenders, and splitters are designed to make your A/V setup more comfortable, more productive and more affordable.

The 1x8 VGA CAT5 DA allows one VGA source to be distributed on up to eight displays. The 1x8 VGA CAT5 DA also extended VGA signals over 330 feet using industry standard Category 5 (CAT-5) Cable. All output displays will have mirrored images.

The ex•tend•it line offers solutions for home theater, A/V installation, data center, information distribution, conference room presentation, school and corporate training environments.

Our Commitment

Gefen will always offer the finest quality product at the best possible price. Included in that price is a lifetime support from a team of outstanding engineers.

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. VGA output 2 through 8 follow the main display. The VGA displays attached to the 1:8 VGA CAT5 Distribution Amplifier MUST have the same native resolution in order to get a picture.

**Features**

- Distributes easily up to eight VGA displays

- Extends each display up to 330 feet

- Maintains up to 1920 x 1280 resolutions

- Maintains 480i, 480p, 720p, 720i, and 1080i, 1080p resolutions

- Distributes and extends VGA or Component

- Installs in seconds

**Includes:**

(1) 1x8 VGA CAT5 DA
(1) 6' VGA cables (m-f)
(1) 5V6A DC Power Supply
(1) Users Manual

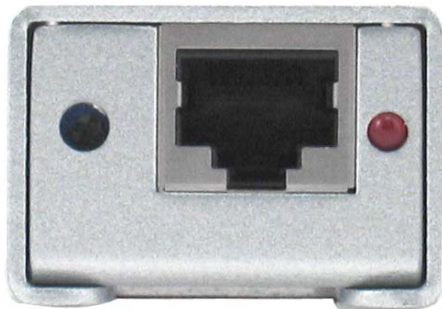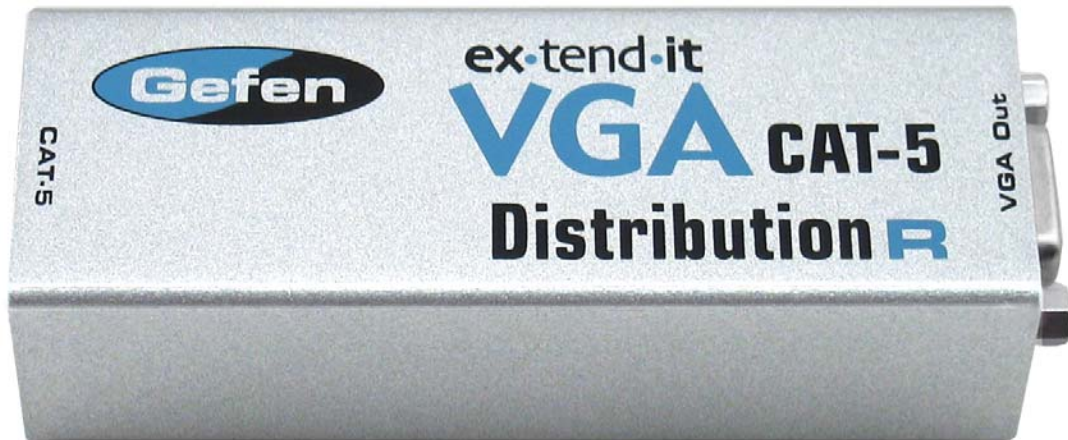Power LED



Connects to
5VDC power
supply

Video CAT5
Out 1-4

VGA Input

Video CAT5
Out 5-8

EQ
Knob

Video
CAT5 In

Power
LED

VGA Out

# CONNECTING AND OPERATING THE 1X8 VGA CAT5 DA
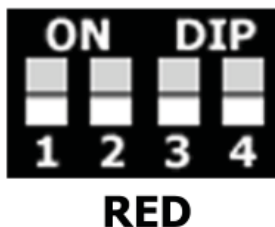
**How to Connect the 1x8 VGA CAT5 DA to your devices**

**1** Connect the supplied VGA cable from the VGA video source into the 1x8 VGA CAT5 DA Sender "VGA In".

**2** Connect a CAT-5e* cable from the "CAT5 Video Outs" on the 1x8 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 Distribution Receiver. (Repeat for each Receiver unit)

**4** Plug the 5VDC power supply into the 1x8 VGA CAT5 DA Sender.

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 1x8 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.

ON DIP
1 2 3 4
**BLUE**

ON DIP
1 2 3 4
**GREEN**

ON DIP
1 2 3 4
**RED**

**RJ-45 Jack**

1 2 3 4 5 6 7 8

White/Orange
Orange
White/Green
Blue
White/Blue
Green
White/Brown
Brown

**RJ-45 Jack**

1 2 3 4 5 6 7 8
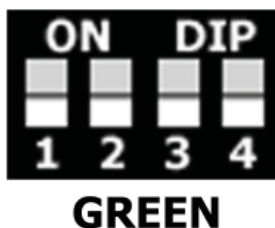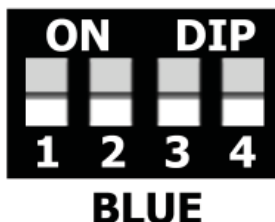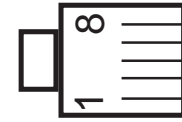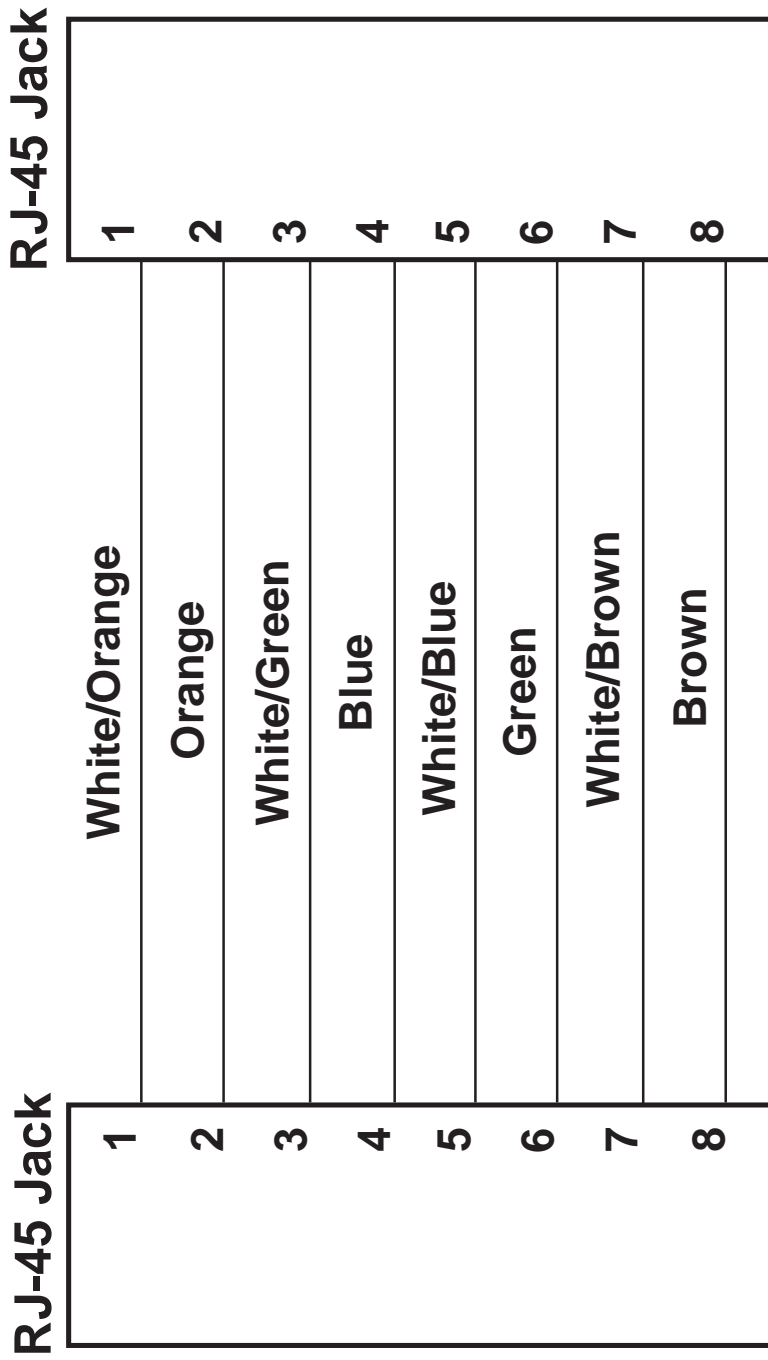
# SPECIFICATIONS

Video Amplifier Bandwidth ................................................................. 350 MHz

Actual Bandwidth ............................................................................. 120 MHz

Input Video Signal ........................................................................ 1.2 volts p-p

Input DDC Signal ..................................................................... 5 volts p-p (TTL)

Horizontal Frequency Range ...................................................... 15 - 70 KHz

Vertical Frequency Range ........................................................ 30 - 170 KHz

Single Link Range ..........................................................1080p / 1920 x 1200

Input Connector Type ......................................................................... HD-15

Output Connector Type ...................................................................... HD-15

Link Connector Type ........................................................................... RJ-45

Power Consumption ............................................................... 30 Watts (max.)

Power Supply ...................................................................................... 5VDC

Dimensions ....................................................... 8.875"W x 1.625"H x 4.4"D

Shipping Weight ................................................................................. 4 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 1x8 VGA CAT5 DA features and specifications is subject to change without notice.