Gefen

2X VGA Extender
EXT-VGA-CAT5-142
User Manual

www.gefen.com

ASKING FOR ASSISTANCE

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INTRODUCTION

Congratulations on your purchase of the 2X VGA Extender. Your complete satis-
faction 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 2X VGA Extender

The Gefen 2X VGA Extender allows you to extend VGA video at great distances,
up to 1,000 feet from the video source. A single industry-standard CAT5 cable
is used to carry the video signal. The 2X VGA receiver unit has two VGA video
outputs, so you can connect more than one monitor if so desired at the remote
location.

How It Works

You simply hook up the 2X VGA sender unit to your VGA video source using
the supplied 6-foot VGA mating cable, then run your CAT-5 cable to the 2xVGA
Receiver unit. At the remote end, connect your display(s) to the 2X VGA Receiver
and your video will be extended flawlessly.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR
OPERATING THE 2X VGA EXTENDER

- Resolutions up to WUXGA (1920 x 1200) are supported.

- Maximum extension of CAT-5 or CAT-5e distance of 1000 feet (300 meters).

- 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-EDIDN) with two VGA to DVI adapters.

Features

- Extends any VGA video source up to 1000 feet away

- Uses only one CAT-5 cable for extension

- Supports resolutions up to 1080p, 2K, and 1920 x 1200

- Allows up to 2 VGA displays at the remote end

Package Includes

(1) VGA Extender Sender Unit
(1) VGA Extender Receiver Unit
(1) 6 foot VGA Cable (M-F)
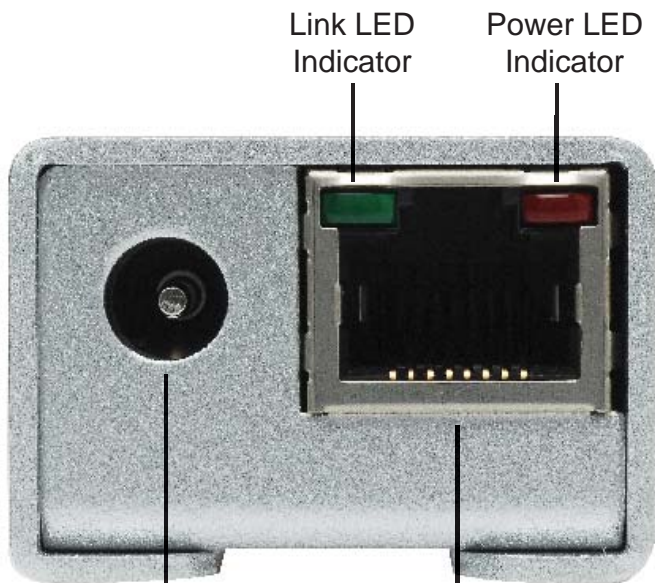(1) 5V External Power Supply
(1) User's Manual

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Front Panel

VGA Input

Back Panel

Link LED   Power LED
Indicator   Indicator

5V DC Power Input   RJ-45 Port

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__Front Panel__

VGA Output 1   VGA Output 2

__Back Panel__

Link LED   Power LED
Indicator   Indicator

Red Trim   Blue Trim   Focus Trim
Pot   Pot   Pot

RJ-45 Port

Green Trim   Brightness Trim
Pot   Pot

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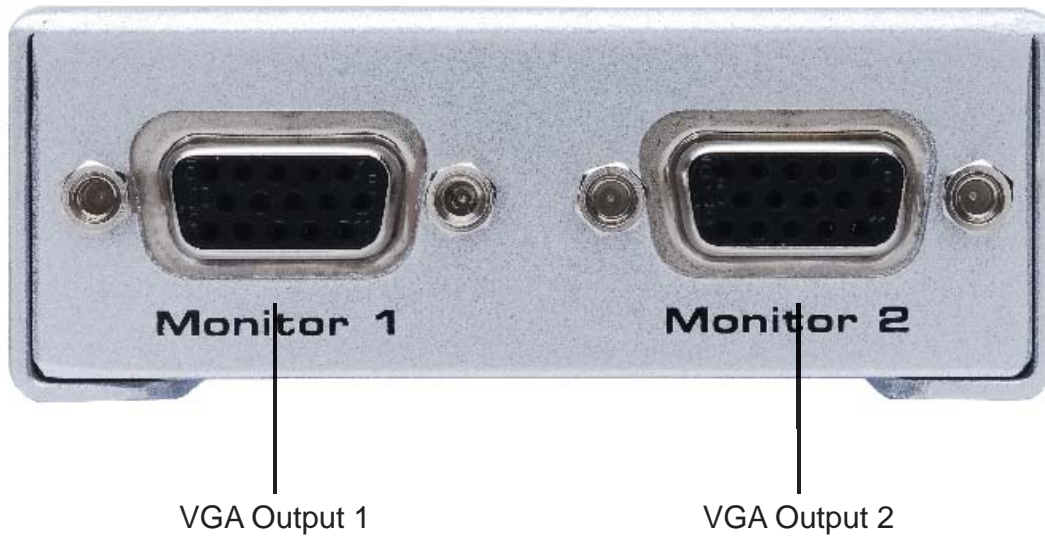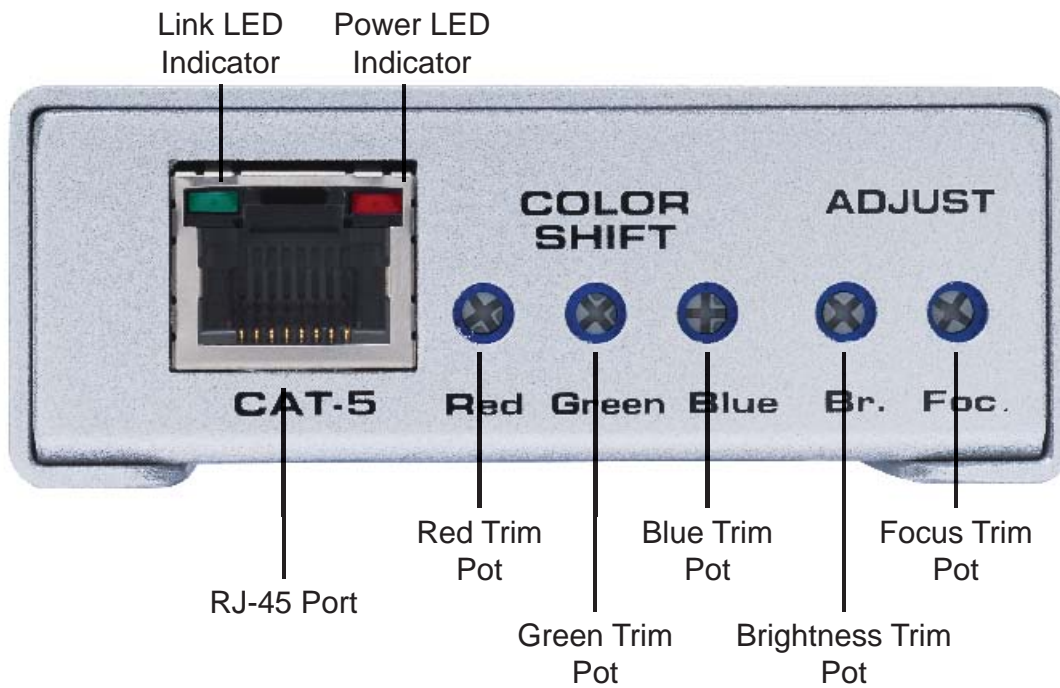
CONNECTING AND OPERATING THE 2X VGA EXTENDER

How to Connect the 2X VGA Extender

1. Connect the VGA source to the 2X VGA Extender sender unit using the supplied VGA cable

2. Connect the 2X VGA Extender sender unit and receiver unit together using a user supplied CAT-5 or CAT-5e cable.

NOTE: When terminating cabling, please adhere to the TIA/EIA-568-B specification. Please see page 7 for more details.

3. Connect the displays to the 2X VGA Extender using user supplied VGA cables.

4. Connect the included 5V DC power supply to the 2X VGA Extender sender unit.

5. Power on the display first, and the source second. The LED indicators on both the 2X VGA Extender sending and receiving units should now be lit . The receiver unit relies on power from the sender unit. If the receiver unit's LED indicators are not lit, please check the CAT-5 cabling and ensure that a proper connection has been made.

6. If the image appears blurry or smeared, please refer to the next section for instructions on how to adjust the video image.

ADJUSTING THE 2X VGA EXTENDER RECEIVER

The 2X VGA Extender Receiver has a number of adjustment options to achieve optimal video quality. There are fine and coarse adjustments for focus and brightness. There is also individual color adjustments for cable skew. Please use the steps below to fine tune the video signal.

<u>Trim Pot Adjustment Procedure</u>

All adjustments in the following section are done via trim pots that require a small flathead device. Please follow the steps below for instructions on how to adjust the trim pots.

1. Insert a small flathead adjustment tool into the trim pot.

2. Turn the trim pot in a clockwise fashion until the trim pot stop turning. Do not force the trim pot beyond this point as it will render it useless.

3. Turn the trim pot in millimeter increments in a counter-clockwise fashion until the desired adjustment point is reached.

4. Remove the trim pot adjustment tool.

Brightness (AGC dip switch, Brightness trim pot)

The 2X VGA Extender receiver features an automatic gain control (AGC) for brightness. This should set the optimal brightness based on the video signal. However, manual adjustment can be done by disabling this feature. To disable AGC, remove the silver metallic tape on the underside of the 2X VGA Extender receiver to expose a 2 dip switch bank and a pair of trim pots. By default, AGC is turned on as indicated by dip switch 1 being in the ON position (Dip switch 2 is not used). Disable AGC by turning dip switch 1 to the OFF position. Adjustment to the brightness can now be done using the Brightness (Br.) trim pot, located on the back panel of the 2X VGA Extender receiver unit. Use steps 1 through 4 on the previous page to adjust the brightness trim pot.

Color Skew Correction (Red, Green, and Blue trim pots)

Varying cable quality, length, and skew may offset the convergence of the three primary colors. Red, green, and blue can individually be adjusted to compensate for cable skew. Please use steps 1 through 4 on the previous page on the trim pots for each color.

Focus (Focus and CABLE EQ trim pots)

If the image appears blurry or ghosted, the focus may need to be adjusted. Use steps 1 through 4 on the previous page on the Focus (Foc.) trim pot, located on the back panel of the 2X VGA Extender receiver unit.

The focus can be fine tuned using the CABLE EQ trim pot located on the underside of the 2X VGA Extender. Use steps 1 through 4 on the previous page to adjust the CABLE EQ trim pot.

Offset

Not for user adjustment. For service purposes only.

AGC

Cable EQ

Offset

AGC ON
OPTION
CABLE EQ
OFFSET

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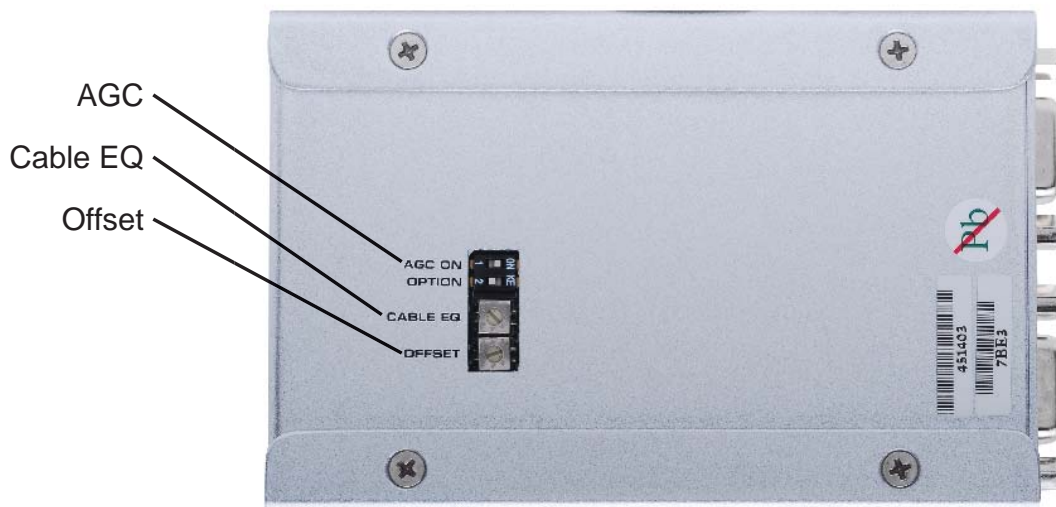
NETWORK CABLE WIRING DIAGRAM

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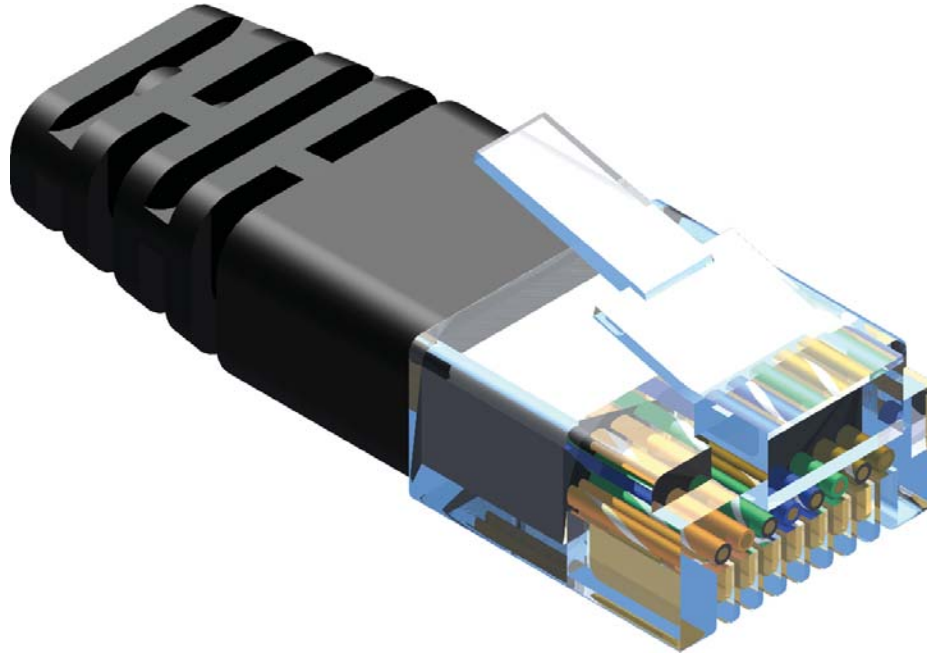
Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

1 2 3 4 5 6 7 8
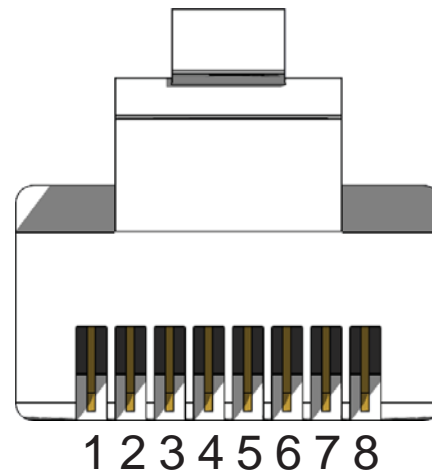
CAT-5, CAT-5e, and CAT-6 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling. CAT-6 cable is also recommended for best results.

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

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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 .... (2) HD-15 Female

Link Connector .... RJ-45 Shielded

Power Supply .... 5V DC

Power Consumption .... 5 Watts (max.)

Sender Dimensions .... 1"W x 1"H x 4"D

Receiver Dimensions .... 3"W x 1"H x 4"D

Shipping Weight .... 3 lbs.

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ma-vga-cat5-142

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