

# Gefen<sup>®</sup>

## VGA To DVI Scaler PLUS

EXT-VGA-2-DVISP  
USER MANUAL



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

## ASKING FOR ASSISTANCE

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### **Notice**

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

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**Rev X4**

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# INTRODUCTION

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Congratulations on your purchase of the Gefen VGA to DVI Scaler Plus. Your complete satisfaction is very important to us. Gefen's line of KVM (Keyboard Video & Mouse), DVI, ADC, USB, switches, extenders, converters and hubs is designed to make computer use more comfortable, more productive and less expensive.

KVM switches allow access to multiple computers from a single keyboard, while the extenders give the user control over a computer up to 330 feet away from the work area.

The line offers solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, and 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 of free support from a team of outstanding engineers.

## **Introduction**

The VGA to DVI Scaler PLUS connects traditional analog video graphic cards (VGA) to DVI compliant digital monitors. The VGA to DVI Scaler PLUS enables users to connect laptops or legacy PC computers equipped with HD-15 video connections to the DVI (digital visual interface) video display format. The VGA to DVI Scaler PLUS will also work with component video sources such as DVD players and set top boxes. You can even add a converter cable to achieve HDMI video, or go further and merge external audio sources with the HDMI signal to create HDMI video with embedded digital audio.

# FEATURES

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## Features

- The input is analog PC or HDTV signal in the format of either RGBHV, YPbPr or YCbCr.
- The output is digital+analog PC or HDTV signal in the format of digital RGBHV bit stream plus analog RGBHV, known as DVI-I (Integrated digital and analog)
- The input resolution is automatically detected while the output resolution and refresh rate can be selected through OSD menu and front panel push buttons.
- 48 MB frame memory for frame rate conversion.
- Output picture adjustment on brightness, contrast, color, RGB level and H-V position.
- DVI output enables an all digital rendering of video without the losses associated with an analog interface and is ideal for use with digital display such as LCD, Plasma and DLP projectors.
- High performance Scaler that converts and scales analog RGB inputs to DVI-I (digital or analog) outputs
- Output resolution can be easily selected using the OSD (On Screen Display)
- Supports input/output computer resolutions up to 1920x1200/ 2048 x 1080 (2K) at 60Hz
- Supports HDTV resolution up to 1080p as input and output.
- Supports DDWG standard for DVI compliant monitors
- Aspect ratio control for native and full view modes
- Controllable by optional IR remote control

## Includes:

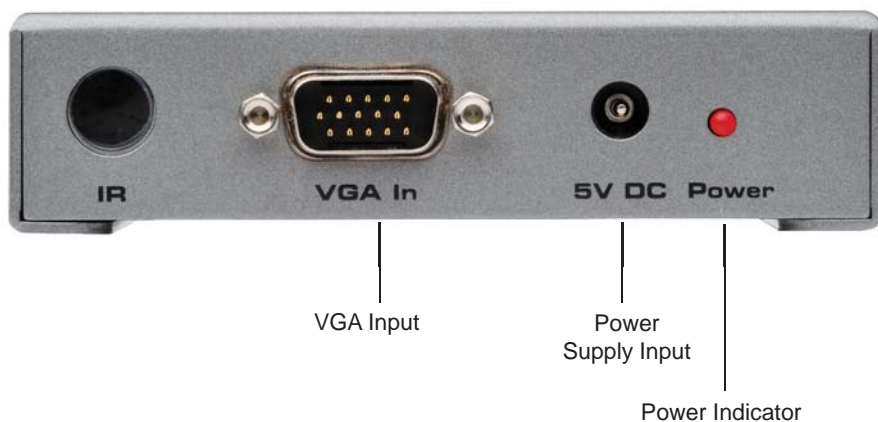
- (1) VGA to DVI Scaler Plus
- (1) 5V Power Supply
- (1) 6 ft VGA cable (M-F)
- (1) User's Manual



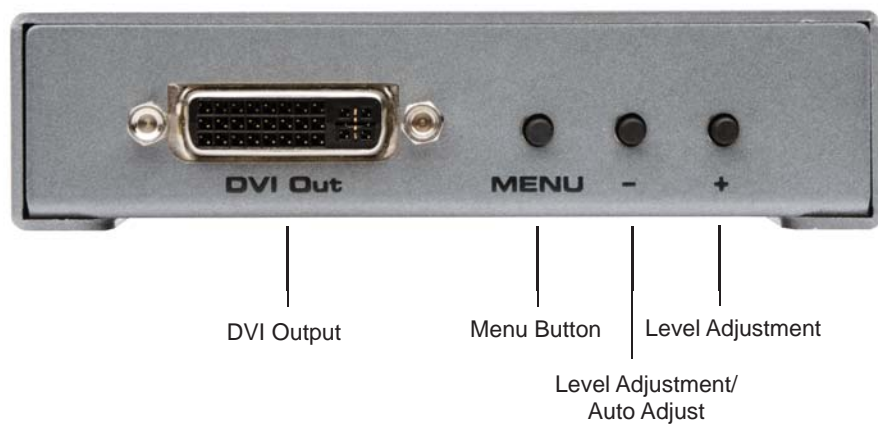
## PANEL DESCRIPTIONS

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### Input side



### Output side



## CONNECTING AND OPERATING THE VGA TO DVI SCALER PLUS

### How to Connect the VGA to DVI Scaler Plus

Connect your analog video card to the HD-15 female connector at the input side of the VGA to DVI Scaler Plus. (Note: The Menu button of the VGA to DVI Scaler Plus will not work without a source plugged in)

Connect the DVI (M-M) cable between the DVI connector on the digital display and the DVI output of the VGA to DVI Scaler Plus.

Connect the power supply.

\*Note: The default resolution of the VGA to DVI Scaler Plus is NATIVE mode, meaning that the Scaler's DVI output matches the default native resolution of your display.

### Operating the VGA to DVI Scaler Plus

Button	Function
<b>MENU</b>	Shows and Hides the On Screen Display (Menu) and Item Selection
<b>+</b>	Moves menu cursor DOWN the menu / Increases adjustment values
<b>-</b>	Moves menu cursor UP the menu / Decreases adjustment values
Hold <b>MENU</b> and unplug and re-plug the power source. Afterwards, you can release the <b>MENU</b> button.	Resets the Scaler back to the NATIVE resolution of the display
<b>Auto Adjust</b> Press the <b>-</b> button	Tunes the picture to display optimum settings

Output resolutions that are supported:

VGA	480I	576I	WXGA
SGA	480P	576P	WSXGA
XGA	720P/60	720P/50	WUXGA
SXGA	1080I/60	1080I/50	2K/60
UXGA	1080P/60	1080P/50	NATIVE

## MENU FUNCTIONS

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PC Menu	System Information Screen
<p>Contrast: Adjusts the picture contrast</p> <p>Brightness: Adjusts the picture brightness</p> <p>H POS: Adjusts the picture's Horizontal position</p> <p>V POS: Adjusts the picture's Vertical Position</p> <p>Clock: Clock adjustment for focus</p> <p>Phase: Phase adjustment for focus</p> <p>Scale: Aspect ratio control</p>	<p>Source: Displays what source is connected</p> <p>Input: Displays the current Input resolution</p> <p>Output: Displays the current Output resolution</p> <p>Version: Displays the current Firmware version</p>
OSD (On Screen Display) Adjust Menu	Color Menu
<p>H POS: Adjusts the Horizontal Position of the On Screen Display (OSD)</p> <p>V POS: Adjusts the Vertical Position of the OSD</p> <p>Timeout: Controls the time that the OSD stays visible on the display</p> <p>Background: Controls transparency of the OSD</p>	<p>Red: Adjusts the picture's red color saturation</p> <p>Green: Adjusts the picture's green color saturation</p> <p>Blue: Adjusts the picture's blue color saturation</p> <p>Color Temp: Adjust the color tone</p>



### No Picture appears on bootup:

If no picture appears on bootup, first reset the VGA to DVI Scaler Plus to the native mode of the display it is connected to.

Monitors without an internal scaler (Any Apple Display as well as the Dell 30" monitor) require the VGA to DVI Scaler Plus to output the monitor's exact native resolution to display a picture. To set the Scaler to the correct resolution, do the following:

1. Reset the scaler to the native resolution of the display by first holding down the **MENU** button.
2. While holding the **MENU** button down remove the power supply from the scaler.

Note: The **MENU** button does not work without a source plugged in.

3. Wait 3 seconds and re-plug the power supply to the unit.
4. After you have inserted the power supply, let go of the **MENU** button.
5. Wait 3 seconds and the scaler will then reset to the displays native resolution.
6. If you need to start over for any reason, unplug and re-plug the power on the VGA to DVI Scaler Plus and then repeat steps 1-5.

### How to use the Auto-Adjust:

1. If for any reason you need to Auto-Adjust the display, you can do so by pressing the "-" button once. Give the scaler 3 seconds to Auto-Adjust itself.
2. While the unit is powered on, press the - button with both source and display connected and powered on as well.
3. Wait three seconds for the unit to adjust itself to the displays optimum settings.
4. After you have pressed the - button, a small dialog box will appear to show that you are auto-adjusting the picture. It will disappear when the scaler is done.

## SPECIFICATIONS

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DVI Video Amplifier Bandwidth.....	165 MHz
VGA Amplifier Bandwidth.....	350 Mhz
Max. input resolution: .....	1920x1200 / 2048 x 1080 (2K) at 60Hz
Max. output resolution: .....	1920x1200 / 2048 x 1080 (2K) at 60Hz
Input DDC Signal.....	5 Volts p-p (TTL)
DVI Output Connector.....	DVI-I (29 pin) female
VGA Input Connector.....	(1) HD-15 VGA female
Power Consumption.....	10 Watts (max)
Power Supply.....	5V DC
Dimensions.....	5.8"W x 1"H x 4.1"D
Shipping Weight.....	3 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, please visit Gefen's Warranty web page at <http://www.gefen.com/kvm/aboutus/warranty.jsp>

## PRODUCT REGISTRATION

**Please register your product online by visiting Gefen's web site at <http://www.gefen.com/kvm/Registry/Registration.jsp>**







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