

# Gefen

®

## DVI to VGA Converter

**EXT-DVI-2-VGAN**

**User Manual**



**[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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**Rev A2**

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# INTRODUCTION

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Congratulations on your purchase of the DVI to VGA Converter. Your complete satisfaction is very important to us.

## **Gefen**

We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line. Please visit <http://www.gefen.com> for the latest offerings in High-Definition signal solutions or call us between the hours of 8:00 am and 5:00 pm Monday-Friday, Pacific Standard Time for assistance with your A/V needs. We'll be happy to assist you.

## **The Gefen DVI to VGA Converter**

The Gefen DVI to VGA Converter is a small box solution that converts DVI-D to VGA Analog PC/RGB, enabling digital sources to connect with any display, projector or TV using VGA. Output resolutions up to 1920x1200 are supported. The Gefen DVI to VGA Converter features advanced EDID management which uses the EDID of the connected monitor if it is available. Otherwise, the internal EDID is sent to the source for compatibility.

## **How It Works**

Connect a DVI cable from the DVI source to the DVI input. Connect a monitor to the VGA output connector. Connect the supplied 5V DC power supply to the unit and connect the included AC power cord to an available electrical outlet.

## OPERATION NOTES

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### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE GEFEN DVI TO VGA CONVERTER

- The DVI to VGA Converter supports a DVI-D signal using a DVI-I connector.
- The DVI to VGA Converter detect the presence of a connected monitor to determine which EDID will be used.

**NOTE:** Once the DVI to VGA Converter is connected to a monitor, the EDID from the monitor will be used. This feature cannot be disabled. See page 7 for details on the Internal and External EDID.

- The DVI to VGA Converter does not have scaling capabilities. The VGA monitor must be able to support the DVI input resolution.
- This product does not support HDCP content.

# FEATURES

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## Features

- Enables a DVI source to be displayed on VGA monitors or projectors
- Supports VESA resolutions up to 1920x1200 @ 60 Hz.
- EDID Management for rapid integration of sources and display devices.

## Package Includes

- (1) Gefen DVI to VGA Converter
- (1) 6 ft DVI cable (M-M)
- (1) 5V DC Power Supply
- (1) User Manual

# PANEL LAYOUT

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Front



1

2

3

Back



4

## PANEL DESCRIPTIONS

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**1 DVI In**

Connect a digital DVI (DVI-D) source to this port.

**2 Power Indicator**

This LED will turn bright red once the included 5V DC power supply has been properly connected to the unit and the locking power supply has been connected to an available electrical outlet.

**3 5V DC Power Connector**

Connect the included 5V DC power supply to this connector.

**4 VGA Out**

Connect a VGA monitor to this port.



# CONNECTING AND OPERATING THE DVI TO VGA CONVERTER

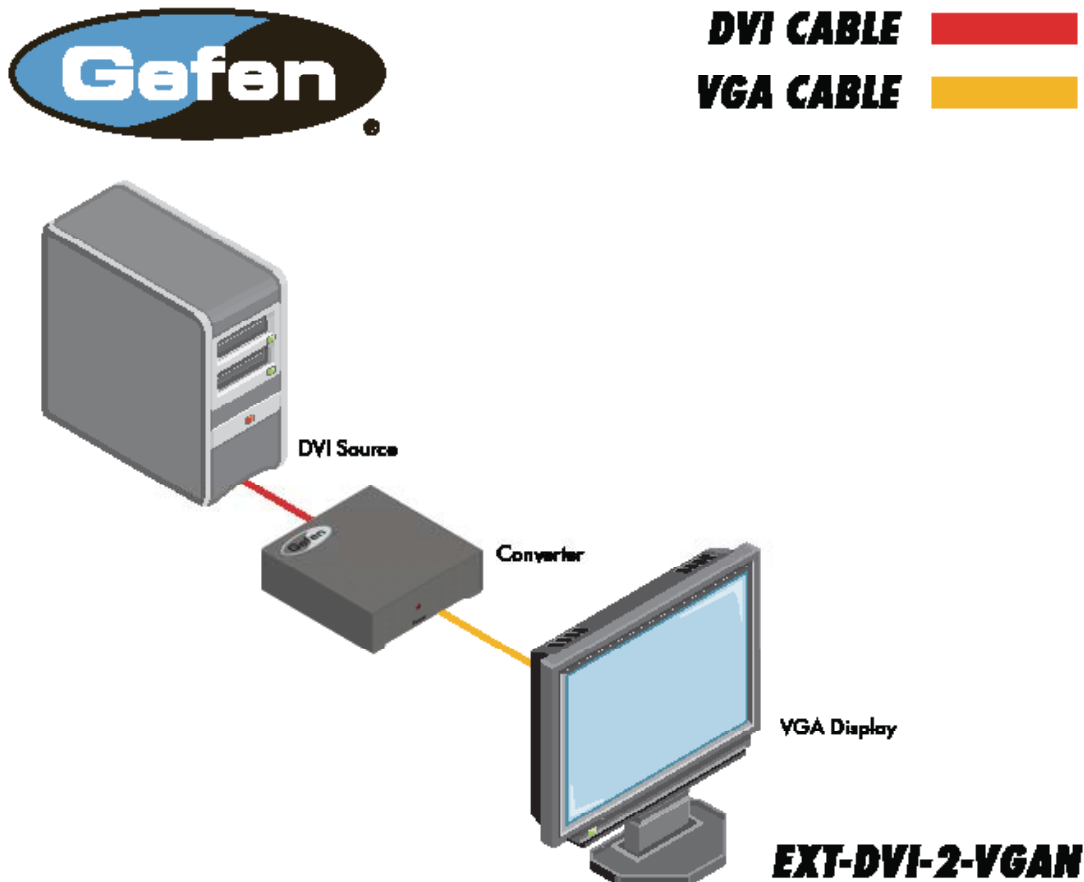
## How to Connect the DVI to VGA Converter

1. Connect a DVI source to the DVI In connector using the provided DVI cable.

**NOTE:** The DVI to VGA Converter only supports DVI-D sources.

2. Connect a VGA cable between the VGA monitor and the DVI to VGA Converter.
3. Connect the 5V DC power supply to the DVI to VGA Converter and connect the included AC power cord to an available electrical outlet. The LED on the DVI to VGA Converter will turn bright red indicating that the unit is powered.
4. Power on the VGA monitor and the DVI source.

## Wiring Diagram for the DVI to VGA Converter



# EDID MANAGEMENT

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## EDID Modes

### 1. EXTERNAL MODE:

In order to use the external (display) EDID, the DVI to VGA Converter must be powered *after* it has been connected to the display. If the Converter is powered *before* it is connected to the display, then the internal EDID will be used.

### 2. INTERNAL MODE:

The internal EDID is a preset EDID that is stored in the DVI to VGA Converter. This pre-programmed standard EDID data structure is compatible with most A/V displays. All resolutions and audio formats specified in the internal EDID will be passed to the source device. See page 8 for a complete listing of the resolutions and audio formats listed in the internal EDID.

# EDID MANAGEMENT

## Internal EDID Specifications

The table below lists the resolutions and timings within the Internal EDID:

Video Data Block	Video Data Block
1920x1080p @ 59.94/60 Hz (native)	1920 x 1200 @ 60 Hz
1920 x 1080i @ 59.94/60 Hz (native)	1600 x 1200
1920 x 1080i @ 50 Hz	1280 x 1024 @ 60/75 Hz
1920 x 1080p @ 50 Hz	1280 x 960 @ 60 Hz
1280 x 720p @ 59.94/60 Hz	1280 x 800 @ 60 Hz
1280 x 720p @ 50 Hz	1280 x 768 @ 60 Hz
720 x 480p @ 59.94/60 Hz	1152 x 870 @ 75 Hz
720 x 480i @ 59.94/60 Hz	1024 x 768 @ 60/70/75 Hz
720 x 576i @ 50 Hz	800 x 600 @ 60/72/85 Hz
720 x 576p @ 50 Hz	640 x 480 @ 60 Hz

## SPECIFICATIONS

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Video Bandwidth.....	165 MHz
Input Video Signal.....	1.2 Volts p-p
Input DDC Signal.....	5 Volts p-p (TTL)
DVI Connector.....	DVI-I 29-pin, female (digital only)
VGA Connector.....	HD-15, female
Power Supply.....	5V DC
Power Consumption.....	2.5 Watts (max.)
Operating Temperature.....	0 ~ 40 °C
Dimensions.....	3" W x 3.75" H x 1" D
Shipping Weight.....	2 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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