

# Gefen

®

## 1:3 Splitter For HDMI™ 1.3

EXT-HDMI1.3-143

User Manual



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

## ASKING FOR ASSISTANCE

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### Notice

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# CONTENTS

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- 1 Introduction**
- 2 Operation Notes**
- 3 Features**
- 4 Panel Layout**
- 5 Panel Descriptions**
- 6 Connecting And Operating The 1:3 Splitter For HDMI 1.3**
- 7 Specifications**
- 8 Warranty**

# INTRODUCTION

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Congratulations on your purchase of the 1:3 Splitter For HDMI 1.3. Your complete satisfaction 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 1:3 Splitter For HDMI 1.3**

The Gefen 1:3 Splitter For HDMI 1.3 allows set-top boxes, DVD players, and other HDTV devices to be connected to three or more HDTV displays. When two or more Splitters are connected together, they can be used to create a larger video signal distribution.

This new unit supports HDMI 1.3 features and passes the higher bandwidth HDMI 1.3 signal for the ultimate in state-of-the-art HDMI signal duplication.

## **How It Works**

The 1:3 Splitter for HDMI 1.3 is connected using an HDMI cable from the HDMI video source to the HDMI splitter input. There are three HDMI outputs. Each output is connected to an HDMI display. Power is connected and all connected displays show an exact replica of the video signal that is input to the Splitter.

Note: This HDMI product supports BOTH Audio and Video signals.

All displays that cannot show the same video resolution(s) as the Primary Display connected to Output #1 may fail to show a picture. Secondary displays follow the Primary by sharing the resolution and capability information (EDID) obtained from the Primary Display.

## OPERATION NOTES

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### **READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 1:3 SPLITTER FOR HDMI 1.3**

- Display information (EDID) is needed by the source to determine the capabilities of the connected display. This is especially important for HDMI 1.3 sources because without the right information in the EDID none of the features for HDMI1.3 will be enabled. The 1:3 Splitter For HDMI 1.3 features an EDID selection that will allow the user to choose an external EDID from an attached display or an built-in internal EDID. Please see page 6 for more details.
- The source device will output a single video resolution that all displays must be capable of accepting.
- This devices is HDMI 1.3 compliant. Please see page 3 for supported HDMI 1.3 features.
- Supports HDTV resolutions up to 1080p Full HD and computer resolutions of 1900 x 1200.

# FEATURES

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## Features

- Connects up to three HDMI™ / DVI displays at the same time to one video source.
- Maintains high resolution video - beautiful, sharp HDTV resolutions up to 1080p, 2k, and computer resolutions up to 1920 x 1200 are easily achieved.
- HDMI and HDCP compliant.

## HDMI 1.3 Features

- Lip-Sync Pass Through
- 225 MHz (up to 12 bit YUV 444 supported @ 1080p)
- Deep Color Supported (XV Color Supported)
- Color Space Conversion Supported
- Dolby TrueHD & DTS Master Supported
- CEC Pass Through

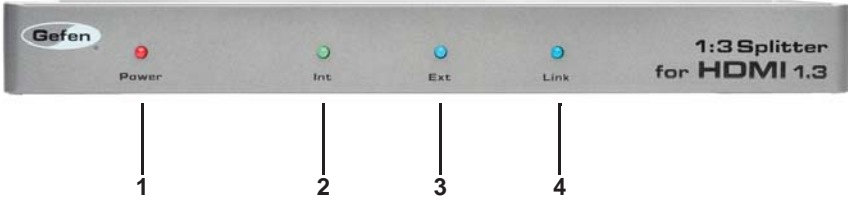
## Package Includes

- (1) 1:3 Splitter For HDMI 1.3
- (1) 5V DC Power Supply
- (1) 6 Foot HDMI Cable (M-M)
- (1) User's Manual

# PANEL LAYOUT

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## Front Panel



## Back Panel



## PANEL DESCRIPTIONS

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### **1 Power LED Indicator**

This LED indicator will become active once the included 5V DC power adapter has been properly connected.

### **2 Internal EDID LED Indicator**

This LED indicator will become active when the internal EDID has been selected. This is a built-in EDID.

### **3 External EDID LED Indicator**

This LED indicator will become active when the external EDID has been selected. This is the EDID from the display connected to HDMI output port 1.

### **4 Link LED Indicator**

This LED indicator will become active when a link between the source device and the 1:3 Splitter For HDMI 1.3 has been established.

### **5 EDID Selector Button**

Pressing this button will cycle between the internal and external EDID modes. Changing to a new mode will not take effect until the unit is reset.

### **6 Reset Button**

This button will cycle power on the 1:3 Splitter For HDMI 1.3. If the EDID mode has been changed it will not take effect until the unit has been reset.

### **7 HDMI Input Port**

Connect an HDMI or DVI (with a DVI to HDMI adaptor or cable) source device to this input port.

### **8 HDMI Output Ports 1 - 3**

Connect up to 3 HDMI or DVI (with a HDMI to DVI adapter or cable) displays to these output ports. The display connected to the port labeled OUT 1 will have its EDID used when the external mode is active.

### **9 5V DC Power Input**

Connect the included 5V DC power supply to this input port.



# **CONNECTING AND OPERATING THE 1:3 SPLITTER FOR HDMI 1.3**

## **How to Connect the 1:3 Splitter For HDMI 1.3**

1. Connect the HDMI or DVI (with a DVI to HDMI adapter or cable) source device to the 1:3 Splitter For HDMI 1.3 HDMI input port using the supplied HDMI cable.
2. Connect up to 3 HDMI or DVI (with a HDMI to DVI adapter or cable) displays to the 1:3 Splitter For HDMI 1.3 output ports using user supplied HDMI cables.

**NOTE:** The display connected to the port labeled OUT 1 will have its EDID used when the external EDID mode is active. If there are displays with different resolutions in the setup it is recommended that the display with the lowest resolution be placed on the port OUT 1. This way, all of the displays will be able to output an image when the external EDID mode is active.

3. Connect the included 5V DC power adapter to the 1:3 Splitter For HDMI 1.3 power input port.
4. Power on the displays first and then the source.

## **How to Operate the 1:3 Splitter For HDMI 1.3**

The EDID source is selectable between the display connected to the output port labeled OUT 1 or the built-in internal EDID. These 2 modes are selectable by cycling the EDID button located on the back panel. To switch modes, follow the instructions below.

1. Note the current EDID mode by viewing the front panel's LED array. If the INT LED is active the internal EDID mode is in use. If the EXT LED is active the external EDID mode is in use.
2. If the current mode is not the desired EDID mode, press the EDID button on the rear panel. The active LED will now switch.
3. Press the reset button to cycle power and initiate the newly selected EDID mode.

The EDID carries import information that the source reads to determine what resolutions and features are supported. The internal EDID has support for resolutions up to 1080p and includes Dolby TrueHD and DTS-HD features.

## SPECIFICATIONS

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Video Amplifier Bandwidth .....	225 MHz
Input Video Signal .....	1.2 Volts p-p
Input DDC Signal .....	5 Volts p-p (TTL)
Single Link Range .....	1080p/60 12 Bit Color Depth, 1920x1200
HDMI Connector .....	Type A ,19 Pin Female
Power Consumption .....	13 Watts (max)
Power Supply .....	5V DC 2.6 Amp
Dimensions .....	9.4"W x 1"H x 4.6"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>**

Rev B



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