

The Gefen logo is a stylized oval shape with a gradient from light gray to black. The word "Gefen" is written in a bold, white, sans-serif font across the center of the oval. A registered trademark symbol (®) is located to the right of the oval.

Gefen®

**1:2 Distribution Amplifier
For HDMI™**

**EXT-HDMI-142
USER MANUAL**

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.

1:2 Distribution Amplifier For HDMI is a trademark of Gefen, LLC
HDMI™ is a trademark of HDMI.org

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INTRODUCTION

The Gefen 1:2 HDMI Distribution Amplifier is the perfect solution for anyone who needs to send one source of digital high definition video to multiple displays at the same time. It supports all HDMI equipment, such as DVD players and satellite set top boxes and all HDMI displays. In operation, the digital video source is connected to the distribution amplifier's one input while two HDMI outputs are available to be used in part or in full. Once the unit is connected and powered, your source can be distributed up to two digital displays at the same time.

How It Works

Simply connect your HDMI video source to the 1:2 HDMI Distribution Amplifier's input using the supplied HDMI cable. Then connect up to two HDMI displays to the unit's two HDMI outputs. Once connected and powered, your source can be seen on all both displays at the same time.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 1:2 DISTRIBUTION AMPLIFIER FOR HDMI

- **Display information from the display connected to HDMI output port 1 is sent back to the source. Therefore, all other displays connected to the 1:2 Distribution Amplifier For HDMI must be capable of accepting the timings and resolutions of the display that is connected to HDMI output port 1. It is recommended that the display with the lowest native resolution be connected to HDMI output port 1. This is to ensure that a compatible video signal will be able to be displayed on all connected monitors.**
- HDMI/HDCP compliant
- Compatible with all HDMI and DVI* displays

*When used with a HDMI to DVI adapter

FEATURES

Features

- Connects up to two HDMI/DVI* displays at the same time to one video source
- Allows simultaneous display
- Supports resolutions up to 1080p, 2K, and 1920 x 1200
- Extends the range of HDMI compliant devices by equalizing and re-clocking the HDMI signal
- Digital optical output port for easy connectivity with external audio processors
- HDMI/HDCP compliant

Includes:

- (1) 1:2 Distribution Amplifier For HDMI
- (1) 6 Ft HDMI cable (M-M)
- (1) 5V DC Power Supply
- (1) Users Manual

*When used with a HDMI to DVI adapter



Front Panel



Active LED Indicator

Power LED Indicator

Back Panel



HDMI Input

HDMI Output 1*

HDMI Output 2

Digital Optical Output
5V DC Power Input

*See Note on page 4

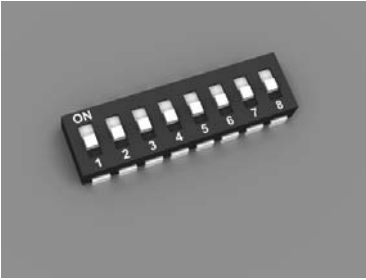
CONNECTING AND OPERATING THE 1:2 DISTRIBUTION AMPLIFIER FOR HDMI

How to Connect the 1:2 Distribution Amplifier For HDMI

- 1 Connect the supplied cable from the HDTV HDMI source into the HDMI input port of the 1:2 Distribution Amplifier For HDMI.
- 2 Connect the user supplied cable(s) from your display(s) into the HDMI output port(s) of the 1:2 Distribution Amplifier For HDMI.
- 3 Optionally, connect an external audio processor to the 1:2 Distribution Amplifier For HDMI using a user supplied digital optical cable.
- 4 Plug the 5V DC power supply into the 1:2 Distribution Amplifier For HDMI.

Note: Display information from the display connected to HDMI output port 1 is sent back to the source. Therefore, all other displays connected to the 1:2 Distribution Amplifier For HDMI must be capable of accepting the timings and resolutions of the display that is connected to HDMI output port 1. It is recommended that the display with the lowest native resolution be connected to HDMI output port 1. This is to ensure that a compatible video signal will be able to be displayed on all connected monitors.

DIP SWITCH GUIDELINES



DIP SWITCH EDID GUIDE

Extended display identification data (EDID) is a data structure provided by a display to describe its capabilities to any source that asks for it. The EDID includes manufacturer name, product type, timings supported by the display, display size, luminance data, (for digital displays only) pixel mapping data, supported audio channels and formats. This information is used by the source to cater its output to resolutions and audio formats that are supported by the display.

Additional EDID modes are available and configured using a combination of dip switches 1, 2, and 5. Please refer below for the different EDID modes.

To access the Dip Switches, remove all screws from the bottom and sides of the Gefen unit. Carefully slide the unit apart. The 8 Bank of Dip Switches are located on the main PCB. Once adjustments are complete, slide the unit back together and replace all removed screws.

EDID Mode 0 (Switch 1=OFF Switch2=OFF Switch5=ON)

-EDID is copied from the first HDMI port

EDID Mode 1 (Switch 1=ON Switch2=OFF Switch5=ON)

-Same as Mode 0 and adds basic audio support

EDID Mode 2 (Switch 1=OFF Switch2=ON Switch5=ON)

-Same as Mode 0 and adds full audio support

EDID Mode 3 (Switch 1=ON Switch2=ON Switch5=OFF)

-EDID is generated based on the common video and audio features of all of the connected devices

EDID Mode 4 (Switch 1=OFF Switch2=ON Switch5=OFF)

-Same as Mode 3 and adds basic audio support

EDID Mode 5 (Switch 1=ON Switch2=OFF Switch5=OFF)

-Same as Mode 3 and adds full audio support

EDID Mode 6 (Switch 1=OFF Switch2=OFF Switch5=OFF) **DEFAULT**

-EDID is generated based on the common video features of all of the connected devices and the combined audio features of all of the connected devices

SPECIFICATIONS

Video Amplifier Bandwidth	165 MHz
Input Video Signal	1.2 Volts p-p
Input DDC Signal	5 Volts p-p (TTL)
Single Link Range	1080p / 1920 x 1200
Input Connector Type	HDMI Type A 19 Pin
Output Connector Type	HDMI Type A 19 Pin
Audio Output	TOSLINK
Power Consumption	15 Watts (max.)
Power Supply	5V DC
Dimensions	10.25"W x 1.25"H x 4.125"D
Shipping Weight	4 Lbs

WARRANTY

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.

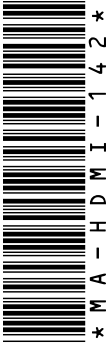
The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting 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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