



1 HDMI source to 4 HDMI displays

Optional Accessories



HDMI Cables

Related Products



1:4 HDMI Splitter Black

1:4 HDMI Splitter

Distribute One HDMI Source to Four Locations

The 1x4 HDMI splitter allows set-top boxes, DVD players, D-VHS players and other HDTV devices with HDMI output to be connected to four or more HDTV displays.

How It Works

Gefen's 1x4 HDMI splitter is a distribution hub that sends the same video output to four or more HDTV digital displays by itself and many more displays if multiple splitters are connected together.

The HDMI splitter is connected using a HDMI cable from the HDMI source to the HDMI splitter input. There are four HDMI outputs. HDMI Output #1 is the Primary output, where the characteristics and capabilities of the Primary Display are retrieved and then used to drive all the other displays.

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.

DVI, HDCP & HDMI Defined

Features:

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

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
- HDMI Connector: type A 19 pin female
- Power Supply: 5V DC
- Power Consumption: 10 watts (max)
- Dimensions: 12"W x 1.25"H x 4.25"D
- Shipping Weight: 5 lbs.

Package Includes:

- 1x4 HDMI splitter
- One 5v Power Supply
- One 6ft cable
- User's Manual



EXT-HDMI-144

Gefen

1:4 Distribution Amplifier For HDMI™

Model # EXT-HDMI-144

USER MANUAL



1080P
PROGRESSIVE

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

EDTV

HD DVD

Blu-ray Disc

www.gefen.com

ASKING FOR ASSISTANCE

Technical Support:

Telephone (818) 772-9100
(800) 545-6900

Fax (818) 772-9120

Technical Support Hours:

8:00 AM to 5:00 PM Monday through Friday PST

Write To:

Gefen Inc.
C/O Customer Service
20600 Nordhoff St.
Chatsworth, CA 91311

support@gefen.com
www.gefen.com

Notice

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

1:4 Distribution Amplifier For HDMI is a trademark of Gefen Inc.
HDMI™ is a trademark of HDMI.org

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INTRODUCTION

The Gefen 1:4 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 four 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 four digital displays at the same time.

How It Works

Simply connect your HDMI video source to the 1:4 HDMI Distribution Amplifier's input using the supplied HDMI cable. Then connect up to four HDMI displays to the unit's four HDMI outputs. Once connected and powered, your source can be seen on all four displays at the same time. When two or more 1:4's are connected together, you can create a larger distribution system.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 1:4 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 1:4 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 four 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
- HDMI/HDCP compliant

Includes:

- (1) 1:4 Distribution Amplifier For HDMI
- (1) 6 Ft HDMI cable (M-M)
- (1) 5V DC Power Supply
- (1) Set of Rack Ears
- (1) Users Manual



*When used with a HDMI to DVI adapter

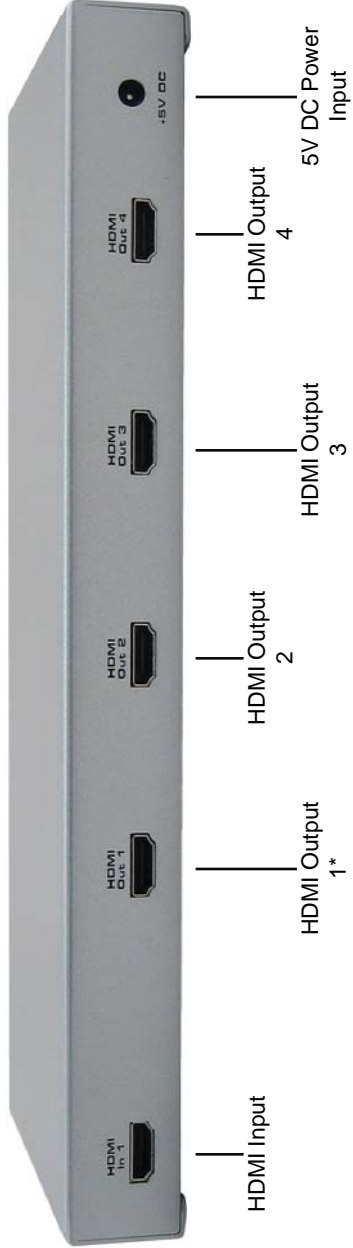
PANEL DESCRIPTIONS

Front Panel



Power LED
Indicator

Back Panel



*See Note on page 4

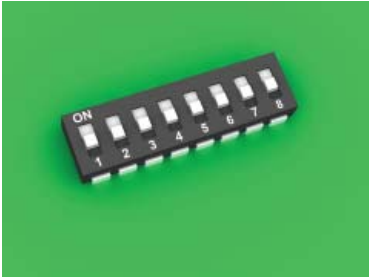
CONNECTING AND OPERATING THE 1:4 DISTRIBUTION AMPLIFIER FOR HDMI

How to Connect the 1:4 Distribution Amplifier For HDMI

- 1** Connect the supplied cable from the HDTV HDMI source into the HDMI input port of the 1:4 Distribution Amplifier For HDMI.
- 2** Connect the user supplied cable(s) from your display(s) into the HDMI output port(s) of the 1:4 Distribution Amplifier For HDMI.
- 3** Plug the 5V DC power supply into the 1:4 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 1:4 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
Power Consumption	10 Watts (max.)
Power Supply	5V DC
Dimensions	12"W x 1.25"H x 4.125"D
Shipping Weight	5 Lbs