



Distribute One HDMI To Up To Eight Displays



EXT-HDMI-148

One HDMI Input, Eight HDMI Outputs

The 1:8 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 on one side. On the other side, eight HDMI outputs are available to be used in part or in full.

Features:

- Connects up to eight 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
- Includes rack ears

How It Works

Simply connect your HDMI video source to the 1:8 HDMI Distribution Amplifier's input using the supplied HDMI cable. Then connect up to eight HDMI displays to the unit's eight HDMI outputs. Once the unit is connected and powered, your source is routed to up to eight digital displays at the same time.

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: 24V DC
- Power Consumption: 60 Watts (max)
- Dimensions: 17"W x 1.75"H x 5.5"D
- Rackmountable: 1U rack space
- Shipping Weight: 8 lbs.

Gefen

1:8 Distribution Amplifier For HDMI™

Model # EXT-HDMI-148

USER MANUAL



1080P
PROGRESSIVE

HDMI
HIGH DEFINITION MEDIA INTERFACE

GDTV

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

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HDMI™ is a trademark of HDMI.org

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INTRODUCTION

The Gefen 1:8 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 eight 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 eight digital displays at the same time.

How It Works

Simply connect your HDMI video source to the 1:8 HDMI Distribution Amplifier's input using the supplied HDMI cable. Then connect up to eight HDMI displays to the unit's eight HDMI outputs. Once connected and powered, your source can be seen on all eight displays at the same time. When two or more 1:8's are connected together, you can create a larger distribution system.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 1:8 DISTRIBUTION AMPLIFIER FOR HDMI

- HDMI/HDCP compliant
- Compatible with all HDMI and DVI* displays

*When used with a HDMI to DVI adapter

FEATURES

Features

- Connects up to eight 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) 1:8 Distribution Amplifier For HDMI
- (1) 6 Ft HDMI cable (M-M)
- (1) 24V DC Power Supply
- (1) Set of Rack Ears
- (1) Users Manual



PANEL DESCRIPTIONS

Front Panel



Power LED Indicator

Back Panel



HDMI Input

HDMI Output 1

HDMI Output 8

HDMI Output 3

HDMI Output 4

HDMI Output 5

HDMI Output 6

HDMI Output 7

HDMI Output 8

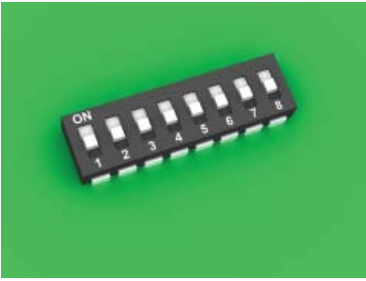
24V DC Power Input

CONNECTING AND OPERATING THE 1:8 DISTRIBUTION AMPLIFIER FOR HDMI

How to Connect the 1:8 Distribution Amplifier For HDMI

- 1** Connect the supplied cable from the HDTV HDMI source into the HDMI input port of the 1:8 Distribution Amplifier For HDMI.
- 2** Connect the user supplied cable(s) from your display(s) into the HDMI output port(s) of the 1:8 Distribution Amplifier For HDMI.
- 3** Plug the 24V DC power supply into the 1:8 Distribution Amplifier For HDMI.

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

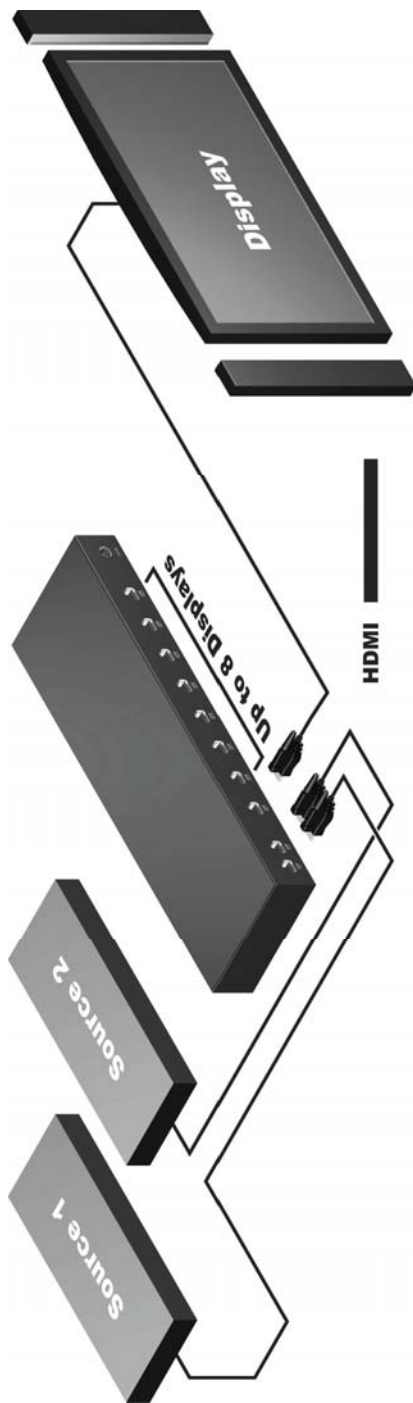
EDID Mode 3 (Switch 1=ON Switch2=ON Switch5=OFF)
-EDID is generated based on the common video and audio features of all of the connected devices

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

WIRING DIAGRAM



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 | 60 Watts (max.) |
| Power Supply | 24V DC |
| Dimensions | 17"W x 1.75"H x 5.5"D |
| Shipping Weight | 6 Lbs |