Distribute 1 DVI source to 8 displays

Optional Accessories

DVI Cables

1x8 DVI Distribution Amplifier

One DVI Input, Eight DVI Outputs

The 1:8 DVI 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 DVI equipment, such as computers, HD-DVD players and satellite set top boxes and all DVI displays. DVI (digital visual interface) is a common connector used throughout the industry to connect digital video displays to video sources. In operation, the digital video source is connected to the distribution amplifier on one side. On the other side, eight video outputs are available to be used in part or in full. Once the unit is connected and powered, your video source is routed to up to eight digital displays at the same time.

For home theater applications, the unit is HDCP (high bandwidth digital content protection) compliant, making it effective for use with all HDTV displays. HDCP is a standard "key" encoded into the DVI signal to prevent video data from being pirated. HDCP was strongly endorsed by the entertainment industry. If a source device is HDCP coded and is connected to a HDTV display or projector via DVI without the proper HDCP decoding mechanism, the picture is relegated to "snow" or in some cases, a very low (480P) resolution. In order to see protected content, the source, the display and any device in between must be equipped with DVI connections that can enable HDCP using "software key" decoding.

How It Works

Simply connect your DVI video source to the 1:8 DVI Distribution Amplifier's input using the supplied DVI cable. Then connect up to eight DVI displays to the unit's eight DVI outputs. Once connected and powered, your video source will be seen on all eight displays at the same time.

Note:

All connected 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 computers with DVI graphics to multiple DVI compatible monitors or projectors
- Connects a HDTV source to multiple DVI compatible displays
- Allows simultaneous display
- Maintains 480p, 720p, 1080i, and 1080p resolutions
- Maintains high resolution video - beautiful, sharp HDTV resolutions up to 1080p, 2k, and computer resolutions up to 1920 x 1200 are easily achieved
- Supports DDWG standard for DVI monitors
- 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
- DVI Connector: DVI-I 29 pin female (digital only)
- Power Supply: 24V DC
- Power Consumption: 60 watts (max)
- Dimensions: 17"W x 1.75"H x 7.25"D
- Rackmountable: 1U rack space
- Shipping Weight: 8 lbs.

Package Includes:

- 1:8 DVI DA
- One 6 foot DVI cable
- 24V External Power Supply
- Rack Ears

RoHS

EXT-DVI-148

1x8 DVI DA

USER MANUAL

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 thru Friday.

Write To:

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

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Notice

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

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INTRODUCTION

Congratulations on your purchase of the Gefen 1x8 DVI Distribution Amplifier. Your complete satisfaction is very important to us.

Gefen's line of HDTV switches, extenders, and splitters are designed to make your A/V equipment use more comfortable, more productive and less expensive.

The 1x8 DVI DA allows one HDTV device to be outputted on up to eight HDTV displays. All output displays will have mirrored images.

The Gefen line offers solutions for Home Theater, AV installation, data center, information distribution, conference room presentation, school and corporate training environments.

Our Commitment

Gefen will always offer the finest quality product at the best possible price. Included in that price is a lifetime support from a team of outstanding engineers.

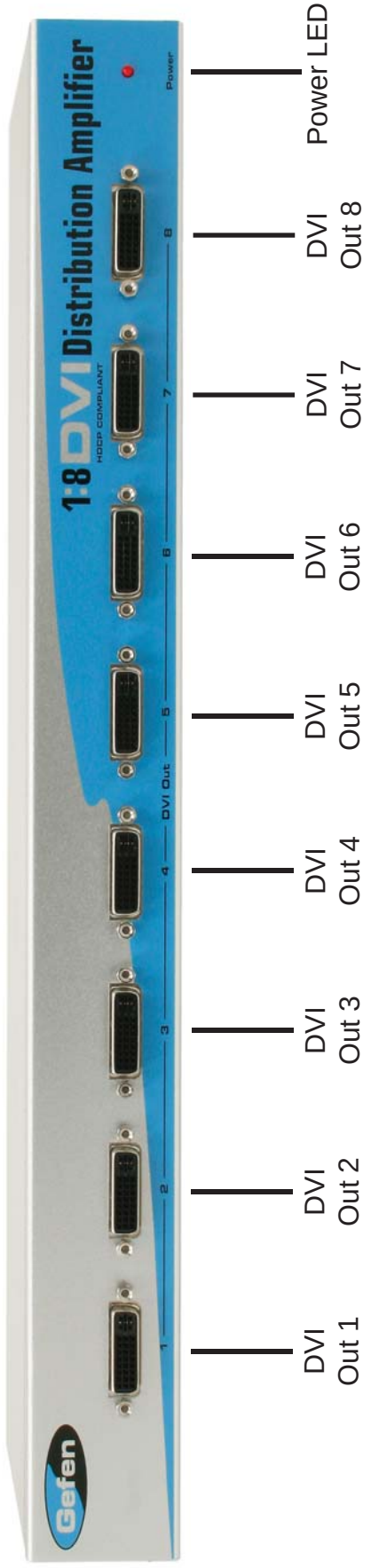
The Gefen 1x8 DVI DA allows one HDTV DVI device to be distributed easily in to eight HDTV DVI compatible monitors or projectors. Simply connect your HDTV displays to the DA's display outputs. The 1x8 DVI DA can also be placed at the end of a long DVI cable to regenerate the DVI signal.

Features

- Distributes easily up to eight DVI/HDMI displays
- Maintains 480i, 480p, 720p, 720i, and 1080i, 1080p resolutions
- Maintains highest DVI single link video resolution
- Maintains highest DVI digital audio signal
- Supports HDCP compliant devices
- DVI or DVI to HDMI cables are used to connect the inputs and switcher output
- Installs in seconds

Includes:

(1) 1x8 DVI DA
(1) 6’ DVI cables (M-M)
(1) 24VDC Power Supply
(1) Rack Ears
(1) Users Manual



Power LED

DVI Out 8

DVI Out 7

DVI Out 6

DVI Out 5

DVI Out 4

DVI Out 3

DVI Out 2

DVI Out 1

Connects to 24VDC power supply

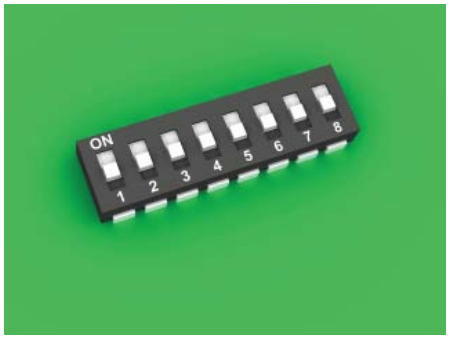
DVI In 1

How to Connect the 1x8 DVI DA to your devices

1 Connect the supplied cable from the HDTV DVI source into the 1x8 DVI DA input.

2 Connect the cables from your displays (monitor or projector) into the DVI outs of the 1x8 DVI DA.

3 Plug the 24VDC power supply into the 1x8 DVI DA.



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. Remove the hex screw heads from each side of the rear DVI port. 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 .....1.65 GHz

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 .....DVI (Digital Only)

Output Connector Type .....DVI (Digital Only)

Power Consumption .....60 Watts (max.)

Power Supply 12-24VDC

Dimensions .....17”W x 1.75”H x 7.25”D

Shipping Weight .....8 Lbs