



1x8 DVI DA
USER MANUAL

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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

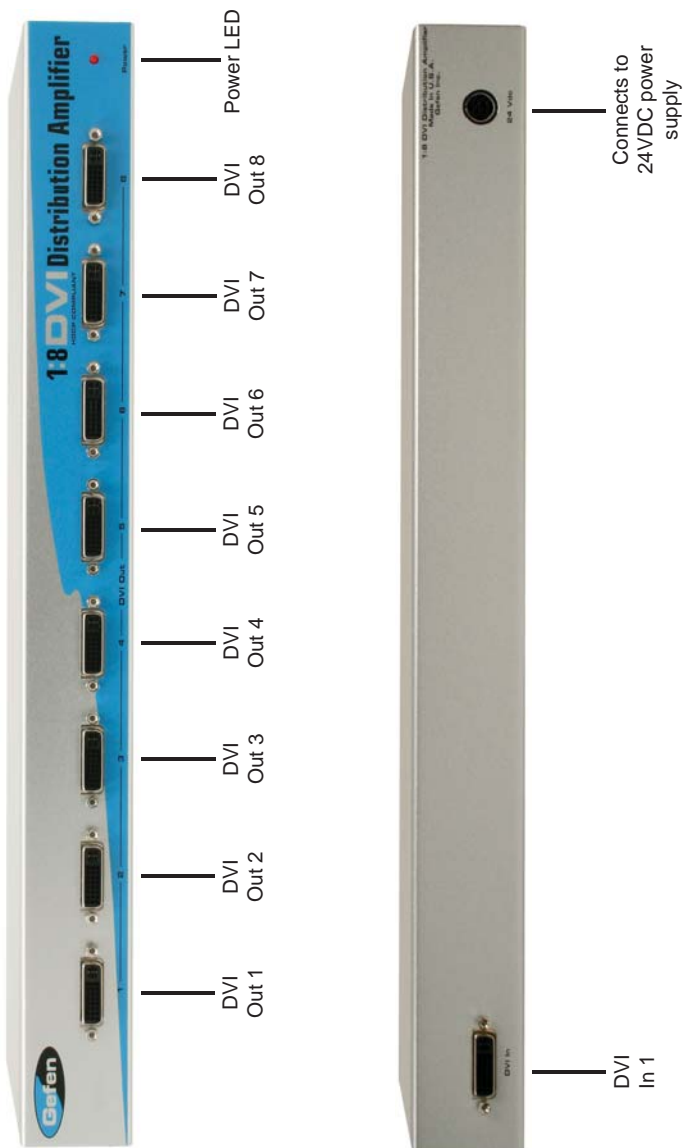
Features

- 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

PANEL DESCRIPTIONS



CONNECTING AND OPERATING THE 1X8 DVI DA

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.

EDID MANAGEMENT FEATURE

EDID. What is it and what is it used for?

Under normal circumstances, an source device (digital and analog) will require information about a connected device/display to assess what resolutions and features are available. The source can then cater its output to send only resolutions and features that are compatible with the attached device/display. This information is called EDID (Extended Display Information Data) and a source device can only accept and read one EDID from a connected device/display. Likewise, the source can only output one resolution for use by a connected device/display.

Why is EDID so important with the 1x8 DVI Distribution Amplifier?

The 1x8 DVI Distribution Amplifier is complex piece of technology that replicates and switches between multiple inputs and outputs. Each connected source device will require one EDID to read. EDID management is carefully handled by 1x8 DVI Distribution Amplifier to provide a single EDID for each source to read.

What options do I have to manage the EDID in the 1x8 DVI Distribution Amplifier?

First, it is important to note that each source device can only output one video/audio signal type. This includes resolutions and timings. When multiple devices/displays are used, such as with the 1x8 DVI Distribution Amplifier, it is important to use devices/displays that have similar or compatible resolutions/features. This will ensure that the single video/audio signal produced by the source device is accepted by all of the connected output devices/displays.

The user has the option, through a combination of DIP switch settings within the 1x8 DVI Distribution Amplifier, to choose how the unit will manage the EDID from multiple HDMI devices/displays. Therefore the user has some control over the resolutions/features that the source devices will output. The 1x8 DVI Distribution Amplifier has a multiple EDID management modes that will control how the EDID information from multiple devices/displays are combined, ignored, and routed.

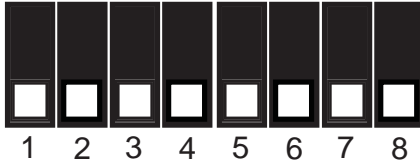
How do I change EDID modes in the 1x8 DVI Distribution Amplifier?

There is an bank of 8 DIP switches located on the main-board inside of the 1x8 DVI Distribution Amplifier. DIP switches 1, 2, 5, and 7 are used in different combinations to manage the EDID modes.

To access these DIP switches it will be required to open the unit. To do this, remove all screws on the underside and side of the unit. Remove all HEX screws on the rear panel. This includes the screws above each HDMI port. Carefully slide the unit apart.

EDID Modes

The diagram below illustrates the 8 DIP switch bank.



DIP SWITCH	Function
1	EDID Mode
2	EDID Mode
3	N/A
4	N/A
5	EDID Mode
6	N/A
7	EDID Mode
8	N/A

Use DIP switches 1, 2, 5, and 7 to select the desired EDID management mode.

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

- Edid is copied from the device connected to the first active hdmi output port.
- All features newer than HDMI 1.2 are cleared.

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 output 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)

- 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 output devices.

EDID Mode 7 (Switch 1=ON Switch2=ON Switch5=ON) DEFAULT

- EDID is passed unmodified from the device connected to the first active output port.

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