



**2x8 HDTV DA**  
USER MANUAL

[www.gefen.com](http://www.gefen.com)

## ASKING FOR ASSISTANCE

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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.

**The 2:8 HDTV Distribution Amplifier** is a trademark of Gefen Inc.

# TABLE OF CONTENTS

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- 1 Introduction
- 2 Operation Notes
- 3 Front Panel Descriptions
- 4 Back Panel Descriptions
- 5 Dip Switch Settings
- 6 Specifications
- 7 Warranty

# INTRODUCTION

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Congratulations on your purchase of the 2:8 HDTV Distribution Amplifier. The 2:8 HDTV distribution amplifier is an innovative solution for anyone with more complex computer system requirements, like studios and presentation venues where multi-viewing is essential. The 2:8 HDTV distribution amplifier accommodates various system scenarios. Most commonly, two video sources (either DVI-equipped computer, DVD player or satellite set top box) are connected to the distribution amplifier on one side. On the output side, eight video outputs are available to be used in part or in full. Once the unit is connected and powered, each source can be routed to multiple displays. All DVI displays are driven by the two DVI sources with each source or computer capable of driving eight displays at one time. For home theater applications, the unit is HDCP (high definition content protection) compliant, making it effective for use with all HDTV displays.

## **How it works:**

Gefen's extend•it 2:8 HDTV distribution amplifier is an expandable distribution hub that sends the same DVI graphics source to eight DVI based digital screens (flat panels or projectors). It is a flexible solution that accommodates multiple DVI displays. You can switch from source one and two via the RMT-2IR remote control. The 2:8 HDTV distribution amplifier is also equipped with an auto sensing feature to switch between whatever source is active. When one source is inactive it will automatically switch to the active source.

The extend•it 2:8 HDTV distribution amplifier is connected with a DVI (male to male) cable from the DVI graphic source to the distribution amplifier input. There are eight DVI outputs in each module. DVI output one is the primary connection and is used for the main display. DVI output 2 thru 8 follow the main display. The 2:8 HDTV distribution amplifiers is using a unique DVI Bus™ technology to connect multiple amplifiers without sacrificing a DVI output connection. The ninth output is an expansion output used to daisy chain an additional 2:8 HDTV Distribution Amplifier. The 2:8 HDTV Distribution Amplifier is expandable to 256 outputs (32 HDTV DA's).

## **Contents:**

The 2:8 HDTV Distribution Amplifier consists of:

- (1) 2x8 HDTV Distribution Amplifier
- (1) DVI 6ft Male to Male Cables
- (1) 24VDC Power Supply
- (1) RMT-2 IR Remote
- (1) User Manual

## OPERATION NOTES

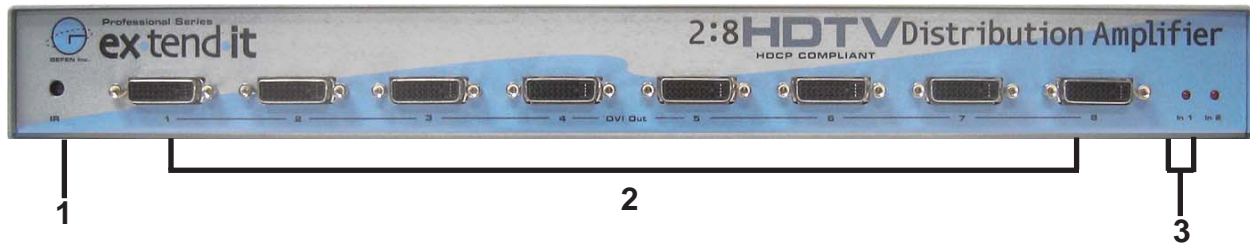
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### **READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 2:8 HDTV DISTRIBUTION AMPLIFIER SYSTEM**

- All the monitors connected to the 2:8 HDTV Distribution Amplifier must be able to run at the same native resolution. The 2:8 HDTV Distribution Amplifier does not scale the video.
- The 2:8 HDTV Distribution Amplifier units are housed in a metal box for better RF shielding.
- You must connect the sources and displays prior to applying power to the unit.
- The power supply must not exceed 24VDC and can fluctuate between 12VDC and 24VDC maximum.

## 2:8 HDTV DISTRIBUTION DA FRONT PANEL DESCRIPTION

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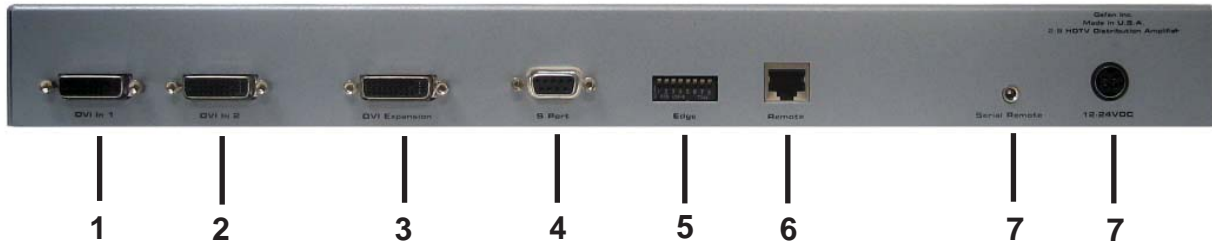


### Front Panel Function Description

- 1 IR- Infrared sensor
- 2 DVI OUT - DVI outputs 1-8
- 3 CH1 or CH2 - Indicates which source is used.

## 2:8 HDTV DISTRIBUTION AMPLIFIER BACK PANEL DESCRIPTION

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### Back Panel Function Description

- 1 **DVI IN 1** - DVI source #1
- 2 **DVI IN 2** - DVI source #2
- 3 **DVI Expansion Output** - Expansion port to daisy chain multiple distribution amplifiers (expandable up to 256 outputs).
- 4 **DB-9** - RS232 port (currently not used)
- 5 **Edge** - Refer to page 5
- 6 **Remote** - Not used
- 7 **Serial Remote** - Not used
- 8 **24 VDC** - 4 pin din power 24 VDC connector

## DIP SWITCH SELECT SETTINGS

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Position	Function	OFF	ON
1	Enables auto-priority on channel 1	<b>Default</b>	Priority Channel 1
2	Enables auto-priority on channel 2	<b>Default</b>	Priority Channel 2
3	Not used	Not used	Not used
4	Not used	Not used	Not used
5	Dynamic HPD	HPD Dynamic	Follow SW 6
6	HPD On/Off	HPD Float	5V to HPD if SW5 is on
7	Not used	Not used	Not used
8	EDGE SELECT	<b>Default</b> - Positive edge	Negative Edge

\* HPD - Hot Plug Detect

# SPECIFICATIONS

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Video Amplifier Bandwidth .....	1.65 GHz
Single Link Range .....	1920 x 1200
Vertical Frequency Range .....	60 Hz
DVI Input/Output Connector Type .....	DVI-I
Power Consumption .....	60 Watts (max.)
Power Supply .....	24VDC
Dimensions .....	17"W x 1.75"H x 7.5"D
Rackmountable .....	1 Rack Space
Shipping Weight .....	8 Lbs

## WARRANTY

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Gefen Inc. warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen Inc. is notified within two (2) year from the date of shipment, Gefen Inc. 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 cable must be free from any scratches, markings, and neatly coiled.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen Inc. assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen Inc., 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 2:8 HDTV Distribution Amplifier features and specifications is subject to change without notice.