



**2x8 DVI DA**  
USER MANUAL

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## 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 DVI Distribution Amplifier** is a trademark of Gefen Inc.

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# INTRODUCTION

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Congratulations on your purchase of the 2:8 DVI Distribution Amplifier. The 2:8 DVI 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 DVI 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 DVI displays.

## **How it works:**

Gefen's extend•it 2:8 DVI 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 DVI 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 DVI 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 DVI 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 DVI Distribution Amplifier. The 2:8 DVI Distribution Amplifier is expandable to 256 outputs (32 DVI DA's).

## **Contents:**

The 2:8 DVI Distribution Amplifier consists of:

- (1) 2x8 DVI 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 DVI DISTRIBUTION AMPLIFIER SYSTEM

- All the monitors connected to the 2:8 DVI Distribution Amplifier must be able to run at the same native resolution. The 2:8 DVI Distribution Amplifier does not scale the video.
- The 2:8 DVI 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.



## 2:8 DVI DISTRIBUTION DA FRONT PANEL DESCRIPTION



## DIP SWITCH SELECT SETTINGS

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Inside the 2x8 DVI Splitter is a bank of Dip Switches. Below is a table describing their functions. By default, all switches are set to the Off position.

Dip Switch #	Name	Description
1	Switching Delay	Adds a 3 second delay to switching
2	On Board EDID	Feeds a Generic EDID to all Inputs
3	IR Code Dip Switch	Corresponds to Dip Switch 1 on RMT16-IR
4	IR Code Dip Switch	Corresponds to Dip Switch 2 on RMT16-IR
5	Unused	
6	Unused	
7	Unused	
8	Edge Select	+Edge Pixels

### **How to open the 2x8 DVI Splitter:**

To access the dip switches, first remove the all the hex nuts on the back of the unit (2 for RS232 port). Remove the all Philips screws under the unit and the 4 screws on each side of the unit. Now carefully remove the cover of the 2x8 DVI Splitter.

# IR CODE CONFLICTS

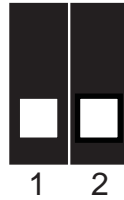
## How to Resolve IR Code Conflicts

There are matching pairs of dip switches underneath the 2x8 DVI DA unit and under the remote battery cover. Switch 1 & 2 on the Remote and Switch 3 & 4 underneath the unit are the matching switches. These switches need to be matched for the remote to communicate with the switcher. There are 4 possible sets of IR codes and at least one of these sets should be able to resolve any IR conflicts with other home theater devices.

Remote



Remote Channel 1:



Remote Channel 2:



Remote Channel 3:

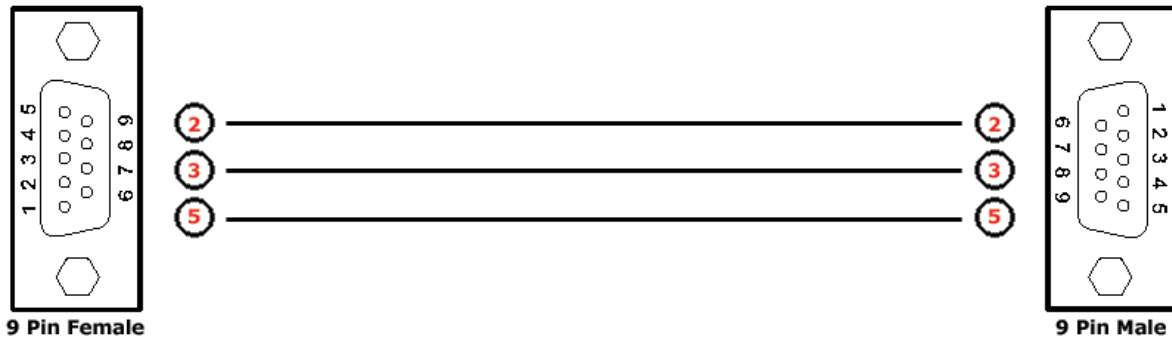


Remote Channel 4:





# RS-232 INTERFACE



## Binary Table

ASCII	Input	Binary
1	1	0011 0001
2	2	0011 0010

## Terminal Settings

Bits per second ..... 19200

Data bits ..... 8

Parity ..... None

Stop bits .....1

Flow Control ..... None

## 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 (Digital Only)
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 DVI Distribution Amplifier features and specifications is subject to change without notice.