



Switch between 8 DVI sources

Optional Accessories



RMT IR Extender

8x1 DVI Switcher

Routes any one of eight DVI sources to one DVI display

The 8x1 DVI Switcher offers unparalleled flexibility in the setup of high definition theater and electronics systems. A plug and play solution, the 8x1 DVI Switcher connects eight digital video source devices, such as DVI-based computer systems and links them to one DVI display. You simply select what source will be viewed on the display using the IR remote control or through RS-232 control. The discrete IR codes can also be programmed into any universal remote device, offering an alternative to multiple remote control confusion. An effective and reliable solution that eliminates the need to purchase several DVI displays.

How It Works

Simply connect your DVI display to the Switcher's display output. Then, using the eight high quality DVI cables that come with the 8x1 DVI Switcher, plug each one into the eight DVI source devices, then connect them to the Switcher's inputs. Once the source devices and the display are powered on and connected, you simply switch between source devices using the RMT-8IR remote control or your own universal remote.

Features:

- Switches easily between any eight DVI computers or HD DVI sources
- Maintains highest resolution single link video
- Extends the range of HDTV devices by equalizing and reclocking the HDTV signal
- Discrete IR remote (included)
- Serial RS-232 remote port
- Supports resolutions up to 1080p, 2K, and 1920 x 1200
- Supports DDWG standards for DVI monitors
- Rack ears included
- HDCP pass-through

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: 1920 x 1200
- DVI Connector: DVI-I 29 pin female (digital only)
- Power Supply: 5V DC
- Power Consumption: 20 watts (max)
- Dimensions: 17" W x 1.75" H x 4.375" D
- Rackmountable: 1U Rack Space
- Shipping Weight: 12 lbs.

Package Includes:

- 8x1 DVI Switcher
- RMT-8IR
- One 5V Power Supply
- Eight 6ft Dual Link DVI cables
- Rack ears



EXT-DVI-841



8x1 DVI Switcher
USER MANUAL

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.

Write To:

Gefen Inc.
c/o Customer Service
20600 Nordhoff St
Chatsworth, CA 91311

www.gefen.com
support@gefen.com

Notice

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

8x1 DVI Switcher is a trademark of Gefen Inc.

TABLE OF CONTENTS

- 1** Introduction
- 2** Features
- 3** Panel Descriptions
- 4** Connecting and Operating the 8x1 DVI Switcher
- 5** RMT-8IR Installation
- 6** RS-232 Interface
- 7** Specifications
- 8** Warranty

INTRODUCTION

Congratulations on your purchase of the ex•tend•it 8x1 DVI Switcher. Your complete satisfaction is very important to us.

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

The 8x1 DVI Switcher allow access to multiple DVI devices, using a single DVI display while the DVI extender product line can extend the DVI video up to 1640 feet (500 meters).

The ex•tend•it line offers solutions for noise, space and security concerns, data center control, 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 of support from a team of outstanding engineers.

The 8x1 DVI Switcher allows eight DVI devices to be switched easily in to one DVI compatible monitor or projector. The 8x1 DVI Switcher can also be placed at the end of a long DVI cable to regenerate the DVI signal.

FEATURES

Features

- Switches easily between any eight DVI computers
- Maintains highest resolution single link video
- Saves you money on hardware costs
- Saves space on your desktop
- No loss of quality
- Discrete IR remote (included); RS-232 controllable
- Supports VESA standard and HDTV Resolutions
- Supports DDWG standards for DVI monitors
- Installs in minutes
- Rackmountable

Includes:

- (1) 8x1 DVI Switcher
- (8) 6' DVI-D cables (m-m)
- (1) 5VDC Power Supply
- (1) RMT8-IR
- (1) Users Manual

PANEL DESCRIPTIONS



IR Extender Port

IR Eye

LED Indicators

RS-232 Port



+5 Vdc

RS-232

In 1

In 2

In 3

In 4

In 5

In 6

In 7

In 8

5v Power

DVI in 1

DVI in 2

DVI in 3

DVI in 4

DVI in 5

DVI in 6

DVI in 7

DVI in 8

DVI Out

CONNECTING AND OPERATING THE 8x1 DVI SWITCHER

How to Connect the 8x1 DVI Switcher to your devices

- 1** Connect the supplied DVI cables from the DVI sources into the DVI Switcher Inputs.
- 2** Connect the cable from your display (monitor or projector) into the DVI Out of the 8x1 DVI Switcher.

How to Operate the 8x1 DVI Switcher

- 1** Use the RMT4-IR remote control port to remotely switch between sources.
- 2** Alternatively, use an RS-232 control system to switch between sources.

Operation Notes

The 8x1 DVI Switcher can also be powered from input 1, as long as the device is on and supplying 5V to the DVI connector.

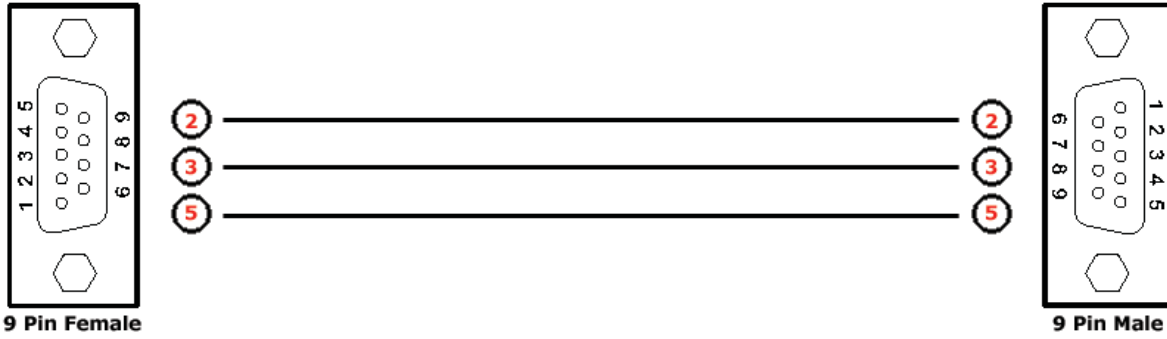
RMT8-IR INSTALLATION

1. Remove battery cover from the back of the RMT8-IR remote.
2. Verify that dip switches 1 & 2 are in the down (OFF) position.
3. Insert the battery, hold the battery so that you can see the positive side facing up. The side that is not marked must be facing down.
4. Test the RMT8-IR remote by pressing **ONLY** one button at a time. The indicator light on the remote will flash once each time you press a button. **WARNING:** Do not press multiple buttons simultaneously and do **NOT** press buttons rapidly. These actions will cause the remote to reset and steps 1-4 will have to be repeated.

Note: The RMT8-IR ships with two batteries. One battery is required for operation, the second battery is complimentary.



RS-232 INTERFACE



Binary Table

Input	Binary
1	0011 0001
2	0011 0010
3	0011 0011
4	0011 0100
5	0011 0101
6	0011 0110
7	0011 0111
8	0011 1000

RS232 Settings

Bits per second 19200
 Data bits 8
 Parity None
 Stop bits 1
 Flow Control None

SPECIFICATIONS

Video Amplifier Bandwidth	1.65 Gbps
Input Video Signal	1.2 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Single Link Range	1920 x 1200
DVI Input/Output Connector Type	DVI-I (29 pin) female (digital only)
Power Consumption	20 watts (max)
Power Supply	5V DC
Dimensions	17" W x 1.75" H x 4.375" D
Rackmountable	1 Rack Space
Shipping Weight	12 lbs.

WARRANTY

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 8x1 DVI Switcher features and specifications is subject to change without notice.