

ASKING FOR ASSISTANCE

Technical Support:

Telephone (818) 884-6294
(800) 545-6900

Fax (818) 884-3108

Email support@gefen.com

Technical Support Hours:

9:00 AM to 5:00 PM Monday through Friday.

Write To:

Gefen Inc.
C/O Customer Service
6265 Variel Ave.
Woodland Hills, CA 91367-9897

Notice

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

The 4x4 DVI Matrix is a trademark of Gefen Inc.

TABLE OF CONTENTS

- 1** Introduction
- 2** Operation Notes
- 3** Back Panel Layout
- 4** Back Panel Descriptions
- 5** Wiring Diagram
- 6** Warranty

INTRODUCTION

Thank you for purchasing the 4x4 DVI Matrix. The 4x4 DVI Matrix switches four computers (PC or MAC) to any four DVI digital displays with USB keyboard and mouse.

The 4x4 DVI Matrix switcher has four DVI inputs and four DVI outputs. Matrix input#1 and the graphics port of Computer #1 connects using a male to male DVI cable. Computer #2 connects to DVI input#2. Computer #3 connects to DVI input#3. Computer #4 connects to DVI input#4. There are four (4) DVI outputs connecting to four (4) different displays. The USB plugs into USB input 1-4 and typically follows the DVI switched input.

Note: The switching is done by using either the RMT-4 wired remote control or the RMT-16-IR remote control. The 4x4 DVI Matrix is rack mountable. Any Apple flat panel display can be connected when used with the extend•it DVI to ADC Conversion Box.

CONTENTS

The 4x4 DVI Matrix consists of:

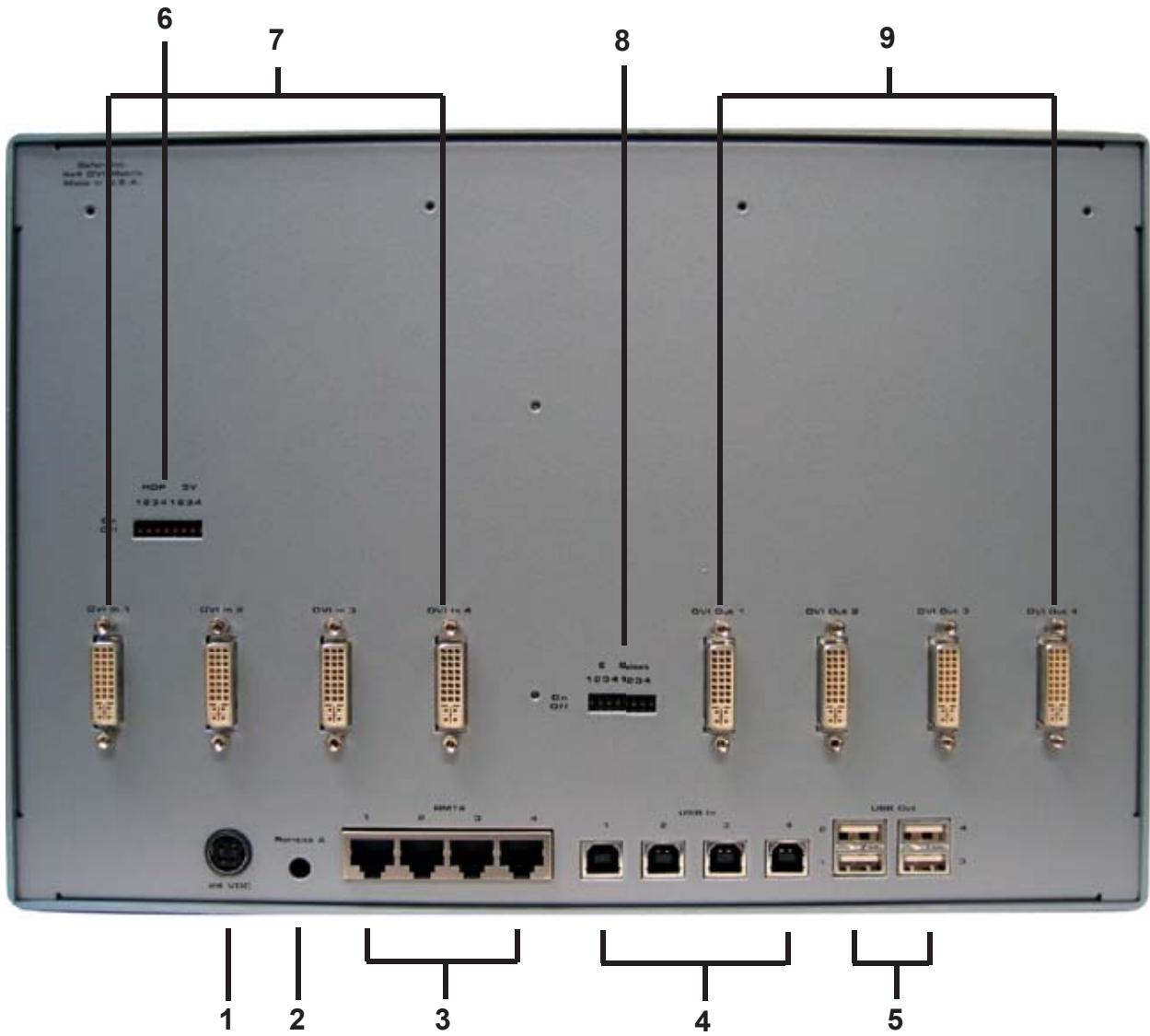
- (4) DVI 6ft Male to Male Cables
- (4) USB 6ft A-B Cables
- (1) 24VDC Power Supply
- (1) User Manual
- (1) RMT-16IR

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 4X4 DVI/HDTV MATRIX

- The 4x4 HDTV Matrix is the same as the 4x4 DVI Matrix, but the USB may or may not be functional
- You should connect all the cables and power supply prior to connecting power to the computers and 4x4 DVI Matrix
- When starting the computers the display needs to point to the source input
- The 4x4 DVI Matrix is housed in a metal box for better RF shielding.
- The 4x4 DVI Matrix works with all DVI and HDMI displays.
- HDCP operation works only with the first display that is selected to one input. If there is more than one display connected to one input the first display switched to the source will show properly, the other displays may not.

BACK PANEL LAYOUT

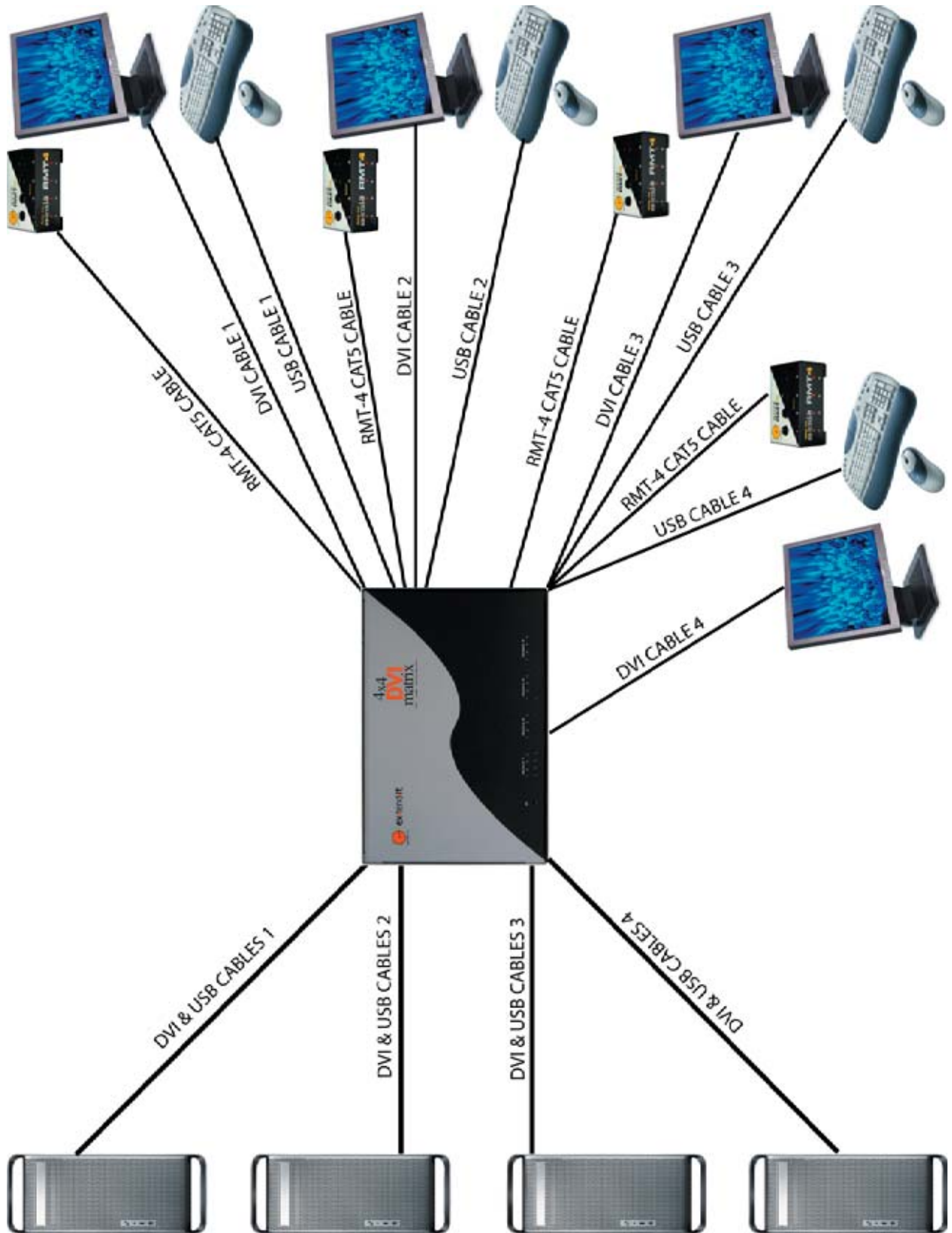


BACK PANEL DESCRIPTIONS

- 1 **24VDC** - Connect to 12-24VDC power supply.
- 2 **Remote** - 2 wire serial remote control
- 3 **RMT4** - RJ45 connector connects to the extend-it RMT-4 remote control. Each RMT-4 controls one of the outputs by switching to one of the the inputs.
- 4 **USB In** - USB input from each source (computer).
- 5 **USB Out** - Connects to USB devices for the output.
- 6 **HPD/5V** - When switches 1,2,3, & 4 are in the UP position, it will make the HPD pin (pin 16) active. When the second set of 1,2,3, & 4 switches under the **+5v** heading are UP, it will output +5v to the DVI cable (pin 14). These switches should be in the DOWN position unless you are using a fiber optic based DVI cable and the source is not supplying +5v power on pin 14.

Caution: Setting the **+5v** dip switches in the ON position when a DVI source is already outputting +5v may harm your DVI source.
- 7 **DVI Input** - Connects to computers or the HDTV source
- 8 **E Select** - EDGE select is set by dip switches from the back panel. For normal operation, all four EDGE switches should be set to UP.
- 9 **DVI Out** - Connects to DVI displays

WIRING DIAGRAM



USING THE 4X4 DVI MATRIX

- 1 Connect all the computers to DVI In and USB In on the 4x4 DVI Matrix, using the supplied cables. DVI In 1 and USB In 1 must be connected to the same computer, all the other inputs must connect the same way.
- 2 Connect the USB devices and DVI displays to the outputs on the 4x4 DVI Matrix using the supplied cables.
- 3 Connect the optional RMT-4 wired remote controls to the 4x4 DVI Matrix.
- 4 Connect the 24VDC powersupply to the 4x4 DVI Matrix

5 Using the RMT-16

Buttons	Switches
1-4	Output 1 to Input 1-4
5-8	Output 2 to Input 1-4
9-12	Output 3 to Input 1-4
13-16	Output 4 to Input 1-4



- 6 **Booting up the computers** - When your computer boots up it looks for an EDID (extended display identification data) from the display to tell it what monitor is connect and what resolution to output. During boot up of the computers you should have ONLY one output selected to one input at a time so that the computer gets the EDID of the display that is selected. If you have multiple outputs selected to one computer, the computer will read the EDID of the last output selected to it. If all your displays are the same, or all displays are capable of running at the same resolution then this step does not matter.

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 one (1) year from the date of shipment, Gefen System 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 shipment 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.

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 4x4 DVI Matrix features and specifications is subject to change without notice.