

# Gefen

## 4x4 Component Audio Matrix

USER MANUAL



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

## ASKING FOR ASSISTANCE

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### **Notice**

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## INTRODUCTION

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Thank you for purchasing the 4x4 Component Audio Matrix.

The 4x4 Component Audio Matrix switches four component video with analog audio sources to any four component with analog audio displays.

The 4x4 Component Audio Matrix switcher has four component video with analog audio inputs and four component with analog audio outputs. There are 4 component video ( 3 RCA) with analog audio ( 2 RCA) inputs and 4 component ( 3 RCA) with analog audio ( 2 RCA) outputs.

Note: The switching is done by using either the RMT-16-IR remote control or through the RS232 port. The 4x4 Component Audio Matrix is rack mountable.

## OPERATION NOTES

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### **READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 4X4 COMPONENT AUDIO MATRIX**

- The 4x4 Component Audio Matrix is housed in a metal box for better RF shielding.
- The 4x4 Component Audio Matrix works with all component displays

# FEATURES

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## Features

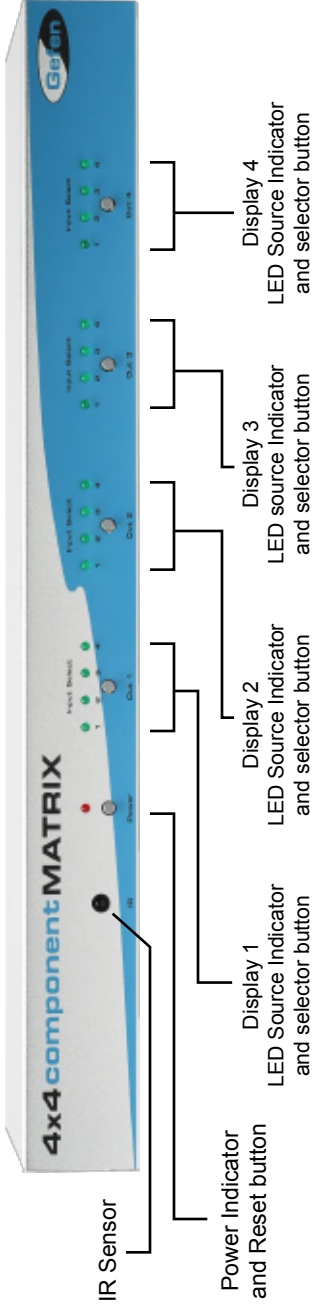
- Allows any component display to view any source at any time
- Allows any source to be displayed on multiple displays at the same time
- Maintains highest video resolution up to 1080p
- Each display's inputs can be switched with the IR remote control, front panel push buttons, or through RS232

## Includes:

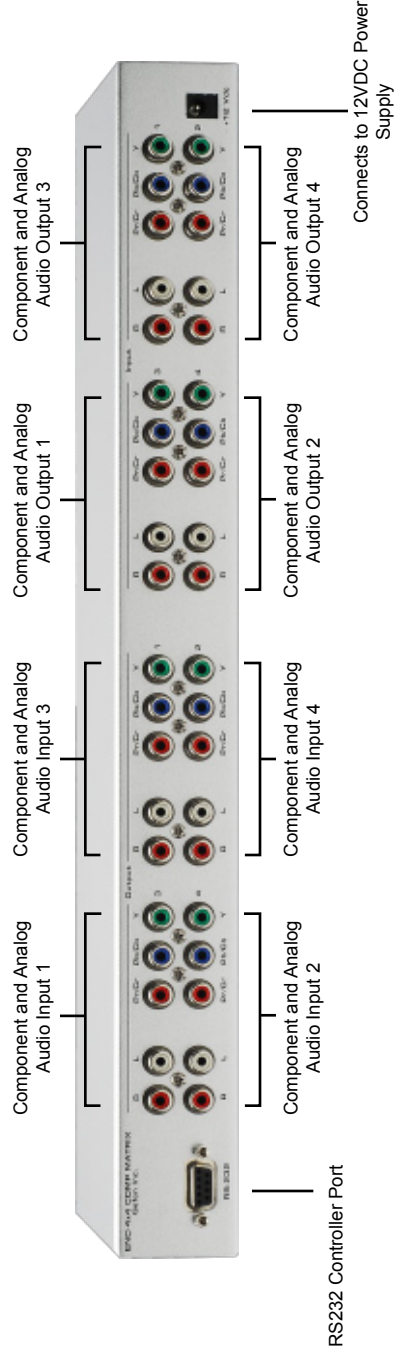
- (1) 4x4 Component Audio Matrix
- (4) 5 RCA Cables (M-M)
- (1) 12VDC 5A Power Supply
- (1) User Manual
- (1) RMT-16IR Remote Control
- (1) Rack Ears



**Front Panel**



**Back Panel**



## USING THE 4X4 COMPONENT AUDIO MATRIX

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- 1 Connect all the sources to the component and analog audio inputs on the 4x4 Component Audio Matrix using the supplied cables.
- 2 Connect the component with audio displays to the outputs on the 4x4 Component Audio Matrix.
- 3 Connect the 12VDC power supply to the 4x4 Component Audio Matrix
- 4 Use the push buttons for each display on the front of the unit to select the source for that display.
- 5 Controlling the 4x4 Component Audio Matrix using the RMT16-IR:

Pressing Buttons...	Switches...
1-4	Display 1 to view Source 1, 2, 3, or 4
5-8	Display 2 to view Source 1, 2, 3, or 4
9-12	Display 3 to view Source 1, 2, 3, or 4
13-16	Display 4 to view Source 1, 2, 3, or 4

## RMT16-IR INSTALLATION

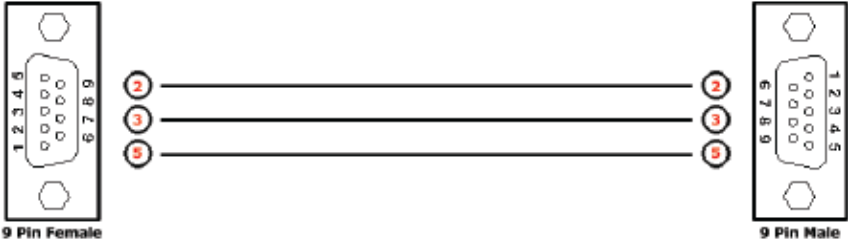
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1. Remove battery cover from the back of the RMT16-IR remote.
2. Verify that dip switches 1 & 2 are in the down (OFF) position.
3. Insert the battery, hold the battery so that you can see the positive side facing up. The side that is not marked must be facing down.
4. Test the RMT16-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 RMT16-IR ships with two batteries. One battery is required for operation, the second battery is complimentary.



# RS-232 INTERFACE



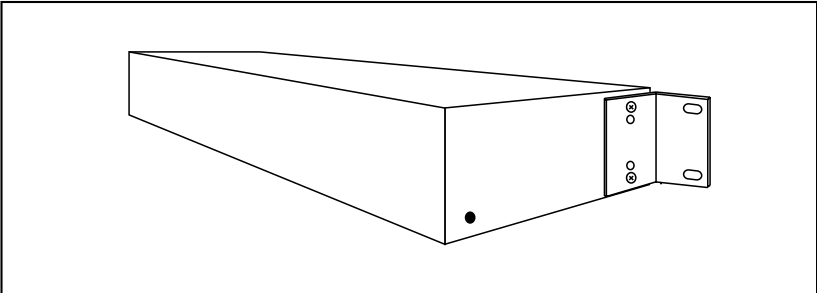
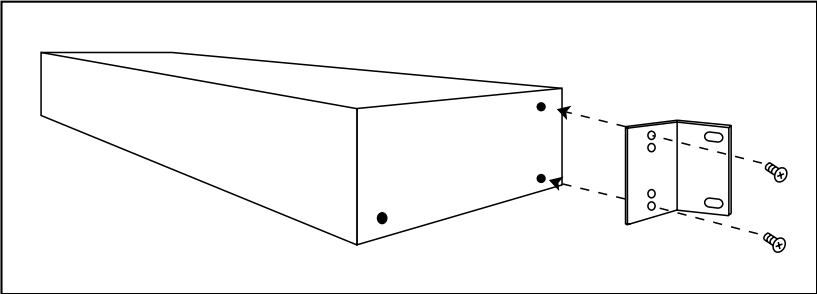
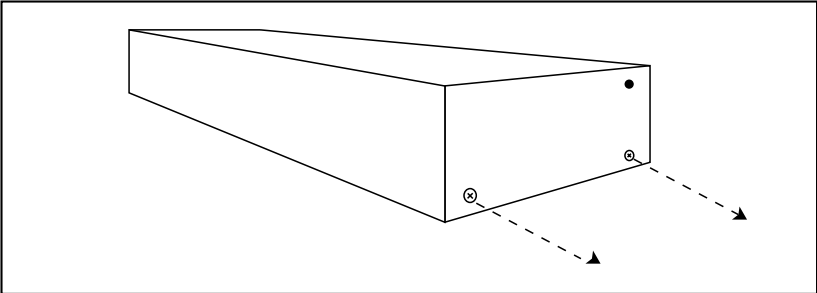
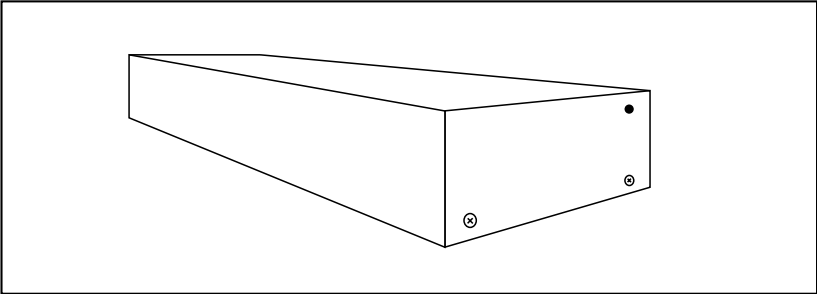
### Binary Table

ASCII	Corresponding RMT16-IR Button	Binary	ASCII	Corresponding RMT16-IR Button	Binary
1	1	0011 0001	9	9	0011 1001
2	2	0011 0010	a	10	0110 0001
3	3	0011 0011	b	11	0110 0010
4	4	0011 0100	c	12	0110 0011
5	5	0011 0101	d	13	0110 0100
6	6	0011 0110	e	14	0110 0101
7	7	0011 0111	f	15	0110 0110
8	8	0011 1000	g	16	0110 0111

### RS232 Settings

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

4X4 COMPONENT AUDIO MATRIX RACK MOUNT DIAGRAM



## SPECIFICATIONS

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Input .....	YPbPr x 4 or RGSB x 4 (or RGBHV) 1 Vp-p@ 75 ohm
Output .....	YPbPr x 4, or RGSB (or RGBHV) x 4
Analog audio input/output .....	Audio 2 Vrms max 47k ohm
Bandwidth .....	480MHz (-3dB)
Video Range .....	1080p
Differential gain .....	0.05%
Differential phase .....	0.05 degree
Power Supply .....	12V DC 5 Amp
Dimensions .....	17.25" W x 1.75" H x 4.95" D
Shipping Weight .....	10 lbs.