



**4x1 HD Analog  
Audio Switcher**  
USER MANUAL

## ASKING FOR ASSISTANCE

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### Notice

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# INTRODUCTION

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Congratulations on your purchase of the ex•tend•it 4x1 HD Analog Audio Switcher. Your complete satisfaction is very important to us.

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

The 4x1 HD Analog Audio Switcher allow access to multiple HDTV devices, using a single HDTV display while the HDTV extender product line can extend the HDTV video signal 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 ex•tend•it 4x1 HD Analog Audio Switcher allows four HDTV devices and analog audio to be switched easily in to one HDTV compatible monitor or projector and analog receiver. Simply connect your HDTV display to the Switcher's display output and your analog audio to the analog out. The 4x1 HD Analog Audio Switcher can also be placed at the end of a long DVI cable to regenerate the HDTV signal.

# FEATURES

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## Features

- Switches easily between any four HDTV sources
- Switches easily between any four analog audio sources
- Maintains 480i, 480p, 720p, 720i, 1080i, and 1080p resolutions
- No loss of audio quality
- Extends any DVI compliant device by regenerating the DVI signal
- Maintains highest DVI single link video resolution
- Supports DDWG standard for DVI compliant monitors
- Supports HDCP compliant devices
- Optional RMT-4 remote control
- DVI cables are used to connect the DVI inputs and 4x1 HD Analog Audio Switcher output
- Installs in seconds

## Includes:

4x1 HD Analog Audio Switcher  
4x 6' HDMI cables (m-m)  
4x Mini Din Stereo to RCA cable  
5VDC Power Supply  
RMT4-IR  
User's Manual

# PANEL DESCRIPTIONS



Connects to IR extender

RCA Audio Out

DVI Out

IR eye

Input Indicator LEDs

Contact Closure Control

Audio In 1    Audio In 2    Audio In 3    Audio In 4

RS232 Interface



HD in 1    HD in 2    HD in 3    HD in 4

5VDC power supply

# **Connecting and Operating the 4x1 HD Analog Audio Switcher**

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## **How to Connect the 4x1 HD Analog Audio Switcher to your devices**

- 1** Connect the supplied HDMI cables from the HDTV sources into the HD Switcher HD inputs. Connect the supplied Mini Din Stereo to RCA cables from the Analog Audio sources into the HD Switcher Audio inputs.
- 2** Connect the DVI cable from your display (monitor or projector) into the “HD Out” of the HDTV Switcher.
- 3** Connect an RCA cable from the “Output” into your audio receiver or display.
- 4** Plug the 5VDC power supply into the 4x1 HD Analog Audio Switcher.

## **How to Operate the 4x1 HD Analog Audio Switcher**

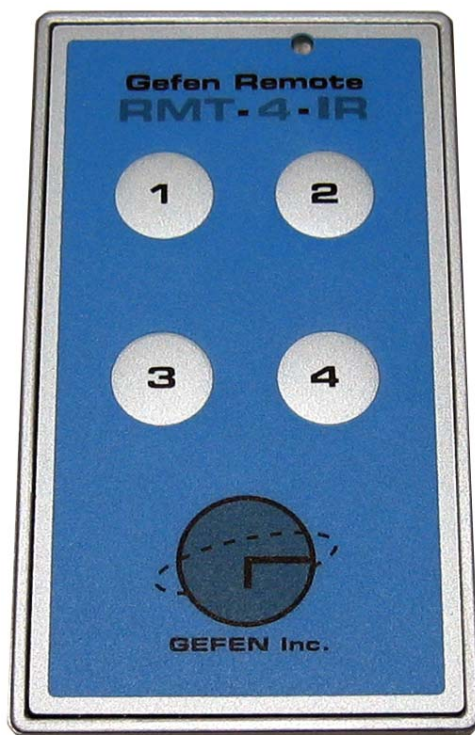
- 1** Use the RMT4-IR remote control port to remotely toggle between sources.

## RMT4-IR Installation

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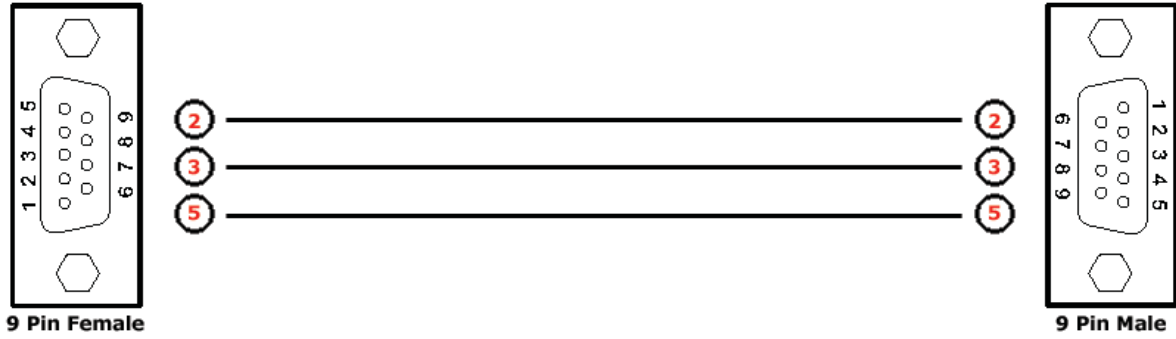
1. Remove battery cover from the back of the RMT4-IR remote.
2. Verify that dip switches 1 & 2 are in the down (OFF) position.
3. Insert the battery, hold the battery so that you can see the positive side facing up. The side that is not marked must be facing down.
4. Test the RMT4-IR remote by pressing 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 RMT4-IR ships with two batteries. One battery is required for operation, the second battery is complimentary.



The optional IR extender allows you to re-locate your 4x1 HD Analog Audio Switcher and still have IR control of the 4x1 HD Analog Audio Switcher

# RS-232 Interface



## Binary Table

Input	Binary
1	0011 0001
2	0011 0010
3	0011 0011
4	0011 0100

## 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 Gbps
Input Video Signal .....	1.2 volts p-p
Input DDC Signal .....	5 volts p-p (TTL)
Single Link Range .....	1920 x 1200
Video Output Connector Type .....	DVI-I 29 pin Female (digital only)
Video Input Connector Type .....	HDMI type A 19 pin Female
Audio Sample Rate .....	5kHz(min) - 48kHz(max)
Audio Frequency Response.....	20Hz - 20kHz
Audio Interface .....	RCA Audio
Power Consumption .....	10 Watts (max)
Power Supply .....	5V DC
Dimensions .....	5.125"D x 11.25"W x 1.25"H
Shipping Weight .....	7 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 one (1) 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 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.

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 4x1 HD Analog Audio Switcher features and specifications is subject to change without notice.