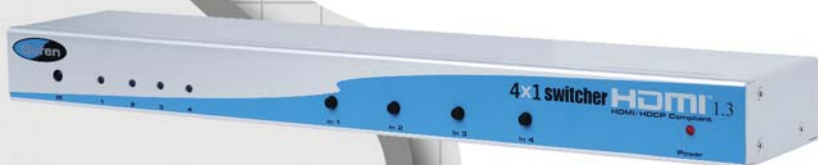


Gefen®

4x1 Switcher for HDMI 1.3

EXT-HDMI1.3-441
USER MANUAL



www.gefen.com

1080P
PROGRESSIVE

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

HDTV

Blu-ray Disc™

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 thru Friday PST (Pacific Standard Time)

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.

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INTRODUCTION

Congratulations on your purchase of the 4x1 Switcher for HDMI 1.3. Your complete satisfaction is very important to us.

The 4x1 Switcher for HDMI 1.3 allows four HDTV HDMI devices to be switched easily into one HDTV HDMI compatible monitor or projector. Simply connect your HDTV display to the Switcher's display output. The 4x1 Switcher for HDMI 1.3 can also be placed at the end of a long HDMI cable to regenerate the HDMI signal.

Our Commitment

Gefen will always offer the finest quality product at the best possible price. Included in that price is a lifetime support from a team of outstanding engineers.

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. Gefen offers solutions for home theater, A/V installation, data center, information distribution, conference room presentation, school and corporate training environments.

FEATURES

Features

- Switches easily between any four HDMI 1.3 sources
- Maintains 480i/p, 576i/p, 720p, 1080i, and 1080p resolutions
- Maintains highest HDMI single link video resolution
- Supports HDCP compliant devices
- HDMI or DVI to HDMI cables are used to connect the inputs and switcher output
- Inputs can be switched automatically with the IR remote control or switched using the front panel buttons
- Installs in seconds
- Fully HDMI 1.3 compliant

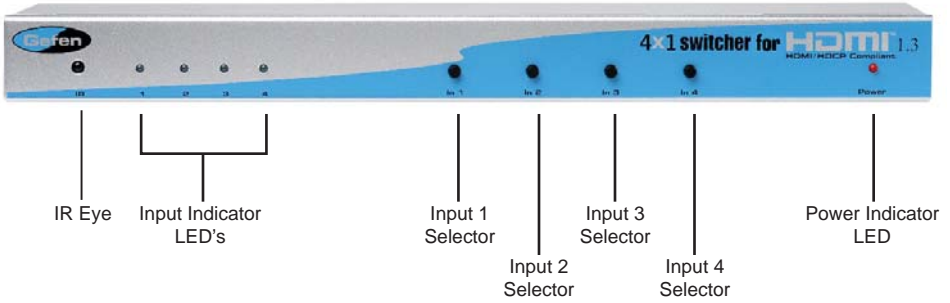
Includes

- (1) 4x1 Switcher for HDMI 1.3
- (4) 6' HDMI cables (M-M)
- (1) 5VDC Power Supply
- (1) RMT4-IR Remote Control
- (1) User's Manual

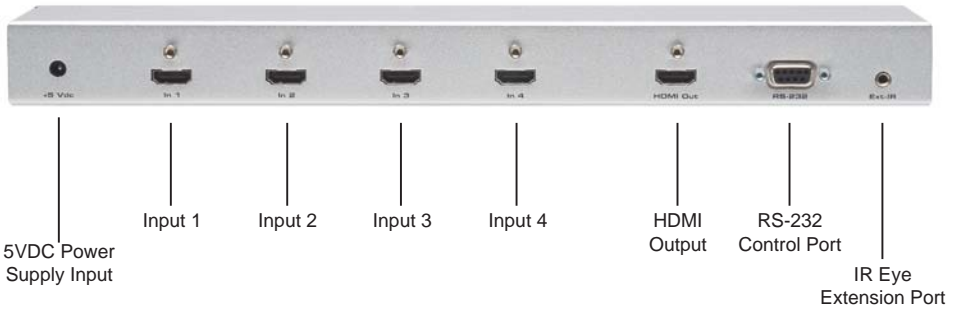


PANEL DESCRIPTIONS

FRONT



BACK



CONNECTING AND OPERATING THE 4x1 SWITCHER

How to Connect the 4x1 Switcher for HDMI 1.3 to your devices

1. Connect the supplied cables from the HDTV HDMI sources into the 4x1 Switcher's inputs.
2. Connect the cable from your display (monitor or projector) into the HDMI output jack of the 4x1 Switcher.
3. Plug the 5VDC power supply into the 4x1 Switcher for HDMI 1.3.

How to Control the 4x1 Switcher for HDMI 1.3

Use the RMT4-IR remote control to toggle between sources or press the input buttons located on the front of the 4x1 Switcher. You can also control the unit using the integrated RS-232 serial connection on the rear of the unit. Please see the RS-232 control section for more details.

RMT4-IR INSTALLATION

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.



IR CODE CONFLICTS

How to Resolve IR Code Conflicts

There are matching pairs of dip switches underneath the Switcher unit and under the remote battery cover. Switch 1 & 2 on the Remote and Switch 7 & 8 underneath the unit are the matching switches. These switches need to be matched for the remote to communicate with the switcher. Switch 1 on the remote is linked to switch 8 on the unit, and switch 2 on the remote is linked to switch 7 on the unit. 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:



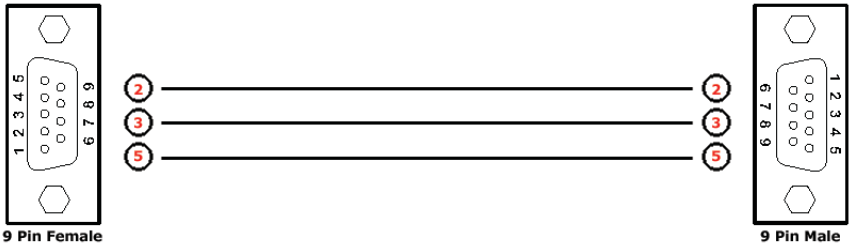
Remote Channel 3:



Remote Channel 4:



RS-232 INTERFACE



Binary Table

| ASCII | Input | Binary |
|-------|-------|-----------|
| 1 | 1 | 0011 0001 |
| 2 | 2 | 0011 0010 |
| 3 | 3 | 0011 0011 |
| 4 | 4 | 0011 0100 |

Terminal Settings

Bits per second 19200

Data bits 8

Parity None

Stop bits1

Flow Control None

SPECIFICATIONS

| | |
|---------------------------------|--|
| Video Amplifier Bandwidth | 340 MHz |
| Input Video Signal | 1.2 volts p-p |
| Input DDC Signal | 5 volts p-p (TTL) |
| Single Link Range | 1080p/60 16 bit color depth, 1920x1200 |
| HDMI Connector | Type A 19 pin female |
| Remote Control Port | RS232 female, mini-stereo 3.5mm |
| Power Supply | 5V DC |
| Power Consumption | 10 watts (max) |
| Dimensions | 13.8"W x 1.8"H x 2.8"D |
| Shipping Weight | 5 lbs |

WARRANTY

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen 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 cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen 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 features and specifications is subject to change without notice.

For the latest warranty coverage information, please visit Gefen's Warranty web page at <http://www.gefen.com/kvm/aboutus/warranty.jsp>

PRODUCT REGISTRATION

Please register your product online by visiting Gefen's web site at <http://www.gefen.com/kvm/Registry/Registration.jsp>

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20600 Nordhoff St., Chatsworth CA 91311

1-800-545-6900 818-772-9100 fax: 818-772-9120

www.gefen.com support@gefen.com

