



4 HDMI 1.3 sources to 1 HDMI display

Related Products

4x1 Switcher for HDMI 1.3



4x1 Switcher for HDMI 1.3 Black

Access up to Four Sources From One Display

4 Sources + 1 Display = Greater Integration Options

Gefen's 4x1 HDMI Switcher routes high definition video in multiple resolutions up to 1080p plus multichannel digital audio from any of four sources. Four inputs accommodate the simultaneous connection of up to four high definition video sources, such as satellite systems and HD DVD players. The output sends the high definition audio/video signals to a high definition display. Switching is done via the IR remote that is provided with the unit.

Fully HDCP Compliant

HDCP (high bandwidth digital content protection) is a standard encoded into the video signal to prevent it from being pirated. If a source device is HDCP coded and is connected to a display or projector without the proper decoding mechanism, the picture is relegated to "snow" or in some cases, very low (480P) resolutions of the images. In order to see high resolution digital video with HDCP compliance, both the source, the display and anything in between must be equipped with HDMI connections that can enable HDCP decoding, such as the 4x1 HDMI Switcher.

How It Works

You simply connect all your sources to the Switcher's inputs. Then connect the display on the output port. Once the sources, the Switcher and the display(s) are powered and connected, you simply select which source you want to view using the IR remote.

Note: This HDMI product supports BOTH Audio and Video signals.

[DVI, HDCP & HDMI Defined](#)

HDMI 1.3 Features:

- Lip-Sync Pass Through
- 340 MHz (up to 16 bit YUV 444 supported @ 1080p)
- Deep Color Supported (XV Color Supported)
- Dolby TrueHD & DTS Master Supported
- CEC Protocol Pass Through

Features:

- Switch easily between any four HDMI sources
- Extends the range of HDMI compliant device by equalizing and redocking the HDMI signal
- Maintains high resolution video - beautiful, sharp HDTV resolutions up to 1080p, 2k, and computer resolutions up to 1920 x 1200 are easily achieved
- Discrete IR remote (included)
- Serial RS-232 remote port
- HDMI pass-through
- HDCP pass-through

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 jack
- Power Supply: 5V DC
- Power Consumption: 10 Watts (max)
- Dimensions: 13.25"W x 1"H x 2.75"D
- Shipping Weight: 6 lbs.

Package Includes:

- The 4x1 HDMI Switcher
- RMT-4IR Remote control
- Four 6-foot HDMI cables
- 5VDC Power Supply
- User's Manual

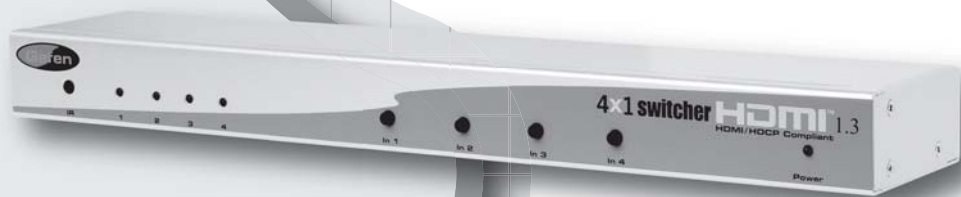


EXT-HDMI1.3-441

Gefen

HDMI 1.3 4x1 Switcher

USER MANUAL



www.gefen.com

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.

Write To:

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

www.gefen.com
support@gefen.com

Notice

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INTRODUCTION

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

The HDMI 1.3 4x1 Switcher 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 HDMI 1.3 4x1 Switcher 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

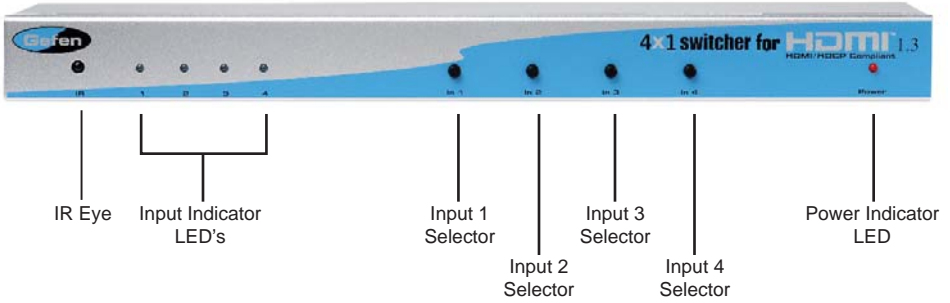
Includes

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

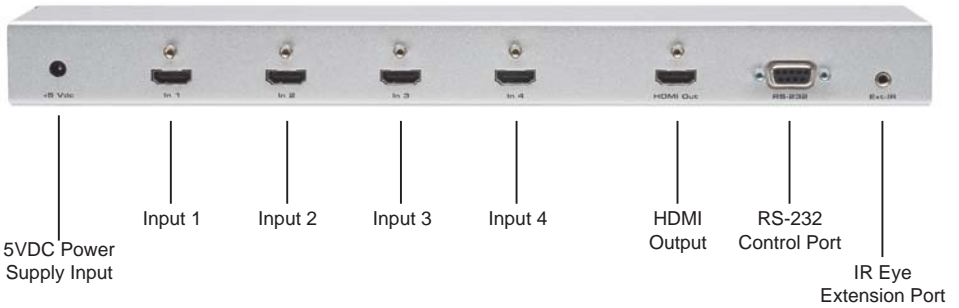


PANEL DESCRIPTIONS

FRONT



BACK



CONNECTING AND OPERATING THE HDMI 1.3 4x1 SWITCHER

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

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

How to Control the HDMI 1.3 4x1 Switcher

Use the RMT4-IR remote control to toggle between sources or press the input buttons located on the front of the HDMI 1.3 4x1. 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:



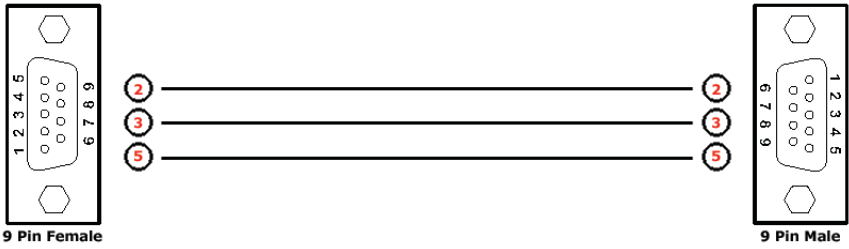
Remote Channel 3:



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
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HDMI Connector	type A 19 pin female
Remote Control Port	RS232 female, mini-stereo
Power Supply	5V DC
Power Consumption	10 watts (max)
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Shipping Weight	6 lbs