



Gefentv[®]

1:4 Splitter for HDMI 1.3

GTV-HDMI1.3-144
User Manual

www.gefentv.com

ASKING FOR ASSISTANCE

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Notice

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1:4 Splitter For HDMI 1.3 is a trademark of Gefen, LLC

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INTRODUCTION

Congratulations on your purchase of the GefenTV 1:4 Splitter for HDMI 1.3. Your complete satisfaction is very important to us.

GefenTV

GefenTV is a unique product line catering to the growing needs for innovative home theater solutions. We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line and hope you find your solutions.. Don't see what you are looking for here? Please call us so we can better assist you with your particular needs.

The GefenTV Splitter

The GefenTV 1:4 Splitter for HDMI 1.3 allows a single HDMI device to be mirrored to four HDMI displays. When two or more GefenTV HDMI 1:4 splitter units are connected together, they can be used to create a larger video signal distribution. This unit supports HDMI 1.3 features and passes the higher bandwidth HDMI 1.3 signal for the ultimate in state-of-the-art HDMI signal duplication.

How It Works

The GefenTV 1:4 Splitter for HDMI 1.3 is connected using an HDMI cable from the HDMI source to the HDMI splitter input. There are four HDMI outputs. Each output is connected to an HDMI display. Power is cycled for all equipment, then all connected displays will show a crisp, clear replica of the source video signal.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE GEFENTV 1:4 SPLITTER FOR HDMI 1.3

- Display information (EDID) is sent from the display connected to HDMI output port 1 to the source. If there is no display connected to HDMI output port 1, the remaining HDMI output ports will be scanned in succession and use the first EDID that it detects. See page 8 for additional information.



FEATURES

HDMI 1.3 Features:

- 225 MHz (up to 12 bit YUV 444 supported @ 1080p)
- Deep Color
- Color Space Conversion
- Dolby TrueHD and DTS-HD Master Audio
- Lip Sync

Features:

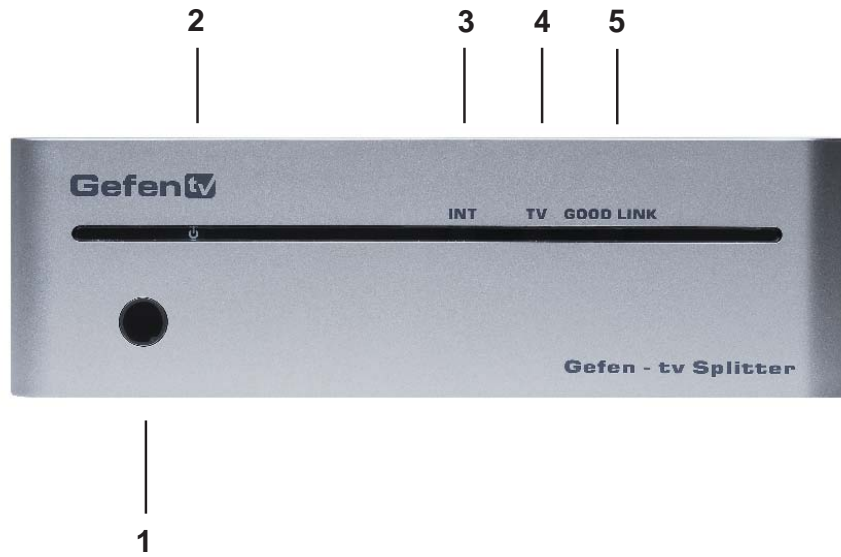
- Simultaneously displays a Hi-Def source on up to four (4) HDTV displays without signal loss
- Supports resolutions up to 1080p Full HD with 12-bit Deep Color
- 3DTV Pass-Through
- Advanced EDID Management for rapid integration of sources and display devices
- Supports the use of DVI sources and DVI displays with an HDMI-to-DVI converter cable or adapter

Package Includes:

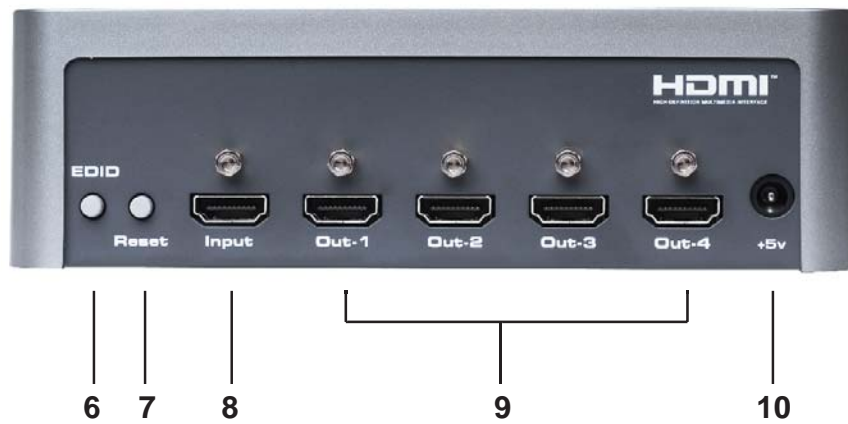
- (1) GefenTV 1:4 Splitter for HDMI 1.3
- (1) 6 ft. HDMI cable (M-M)
- (1) 5V DC Power Supply
- (1) User Manual

PANEL LAYOUT

Front Panel



Back Panel



PANEL DESCRIPTIONS

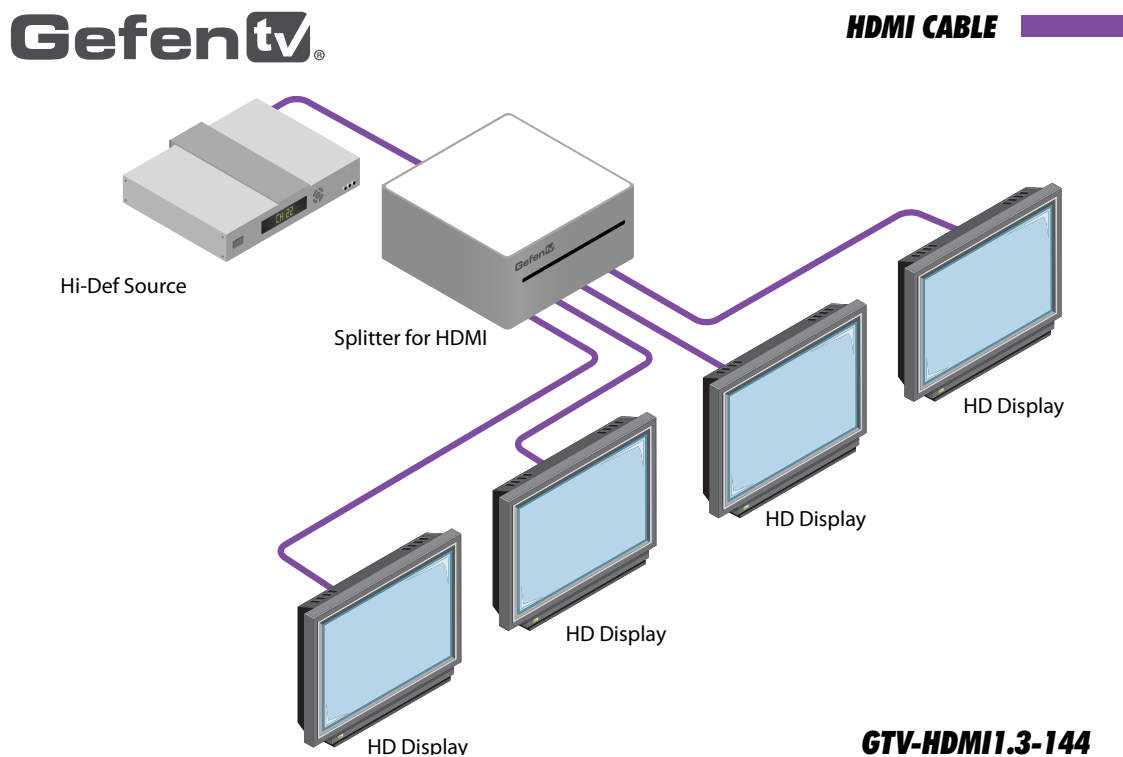
- 1 IR Sensor**
Not used.
- 2 Power Indicator**
This LED will turn bright red once the locking power supply has been properly connected.
- 3 Internal EDID Indicator**
This LED turns bright blue when the Internal EDID is being used.
- 4 TV Indicator**
This LED turns bright green when the External EDID is being used.
- 5 Link Indicator**
This LED turns bright red when a link between the input (source) and the display has been established.
- 6 EDID Button**
Switches between the Internal EDID or External EDID.
- 7 Reset Button**
Press this button to reset the unit. This is the same as disconnecting then reconnecting the power supply.
- 8 HDMI Input Port**
Connect a Hi-Def source to this HDMI port.
- 9 HDMI Output Ports (1-4)**
Connect an HDTV display to these HDMI ports.
- 10 5V DC Power Connector**
Connects the included 5V DC power supply to this receptacle.

CONNECTING AND OPERATING THE GEFENTV 1:4 SPLITTER FOR HDMI 1.3

How to Connect the GefenTV 1:4 Switcher for HDMI 1.3

1. Use the provided HDMI cables to connect the source devices to the HDMI input port of the GefenTV 4:1 Switcher for HDMI 1.3.
2. Use additional HDMI cables to connect HDTV displays to the Outputs on the Splitter.
3. Connect the included 5V DC locking power supply to the power receptacle.
4. Connect the AC power cord to an available electrical outlet.

Wiring Diagram for the GefenTV 1:4 Splitter for HDMI 1.3



EDID MANAGEMENT

EDID Mode Selection

1. EXTERNAL MODE:

See page 8 for details on using the External EDID.

2. INTERNAL MODE:

To use this mode, press the EDID button on the rear panel until the front-panel LED marked “Int” turns bright blue. This mode will use a preset EDID, from the factory, that is stored in the GefenTV 1:3 Splitter for HDMI 1.3. This pre-programmed standard EDID data structure is compatible with most A/V display devices. All resolutions and audio formats specified in this EDID will be passed to the source device. See the tables below for a complete listing of the resolutions and audio formats listed in this EDID.

NOTE: All other HDMI devices/displays connected to the output ports **MUST** be compatible with at least one resolution/audio format specified in this EDID. It is recommended to set, on the source device, a common resolution and audio format shared by all attached devices/displays.

IMPORTANT: When switching between Internal and External EDID, press the Reset button to use the new EDID.

Internal EDID Video Timings

Timing	Refresh Rate	Timing	Refresh Rate
1280 x 720p	50 Hz	720 x 576p	50 Hz
1280 x 720p	59.94 / 60 Hz	1920 x 1080p	50 Hz
1920 x 1080i	50 Hz	1920 x 1080p	59.94 / 60 Hz
1920 x 1080i*	59.94 / 60 Hz	1440 x 480p	59.94 / 60 Hz
720 x 480p	59.94 / 60 Hz	1440 x 576p	50 Hz

* Native Resolution

Internal EDID Audio Formats

Audio Format	Supported Channels
LPCM	2CH
AC-3	2CH / 5.1CH
DTS	2CH / 5.1CH

EDID MANAGEMENT

External EDID Management

To use the External EDID mode, press the EDID button on the rear panel until the front-panel LED marked “TV” turns bright green.

Display Connections

- The information contained in the Internal EDID is used as the default EDID until a display is connected to the Splitter and the Splitter is power-cycled.
- If a display is not connected to Output 1, then no EDID changes are made, meaning that the previous EDID information will be used. This state will be in effect until a display is connected to Output 1 and the Splitter is power-cycled.
- EDID is copied from Output 1 to all other outputs. The audio block will be copied from Output 1. EDID-copying is performed only when the Splitter is reset or power-cycled.

3DTV Support

- 3D signals are supported only if a 3DTV is connected to Output 1.

Deep Color

- Deep Color will be *disabled* if one or more displays connected to the Splitter do not support Deep Color.

xvYCC Color

- This color gamut will be *disabled* if one or more of the displays connected to the Splitter do not support xvYCC (x.v.Color).

SPECIFICATIONS

Video Amplifier Bandwidth	225 MHz
Input Video Signal	1.2 Volts p-p
Input DDC Signal	5 Volts p-p (TTL)
HDMI Input Connector	Type A 19-pin female
HDMI Output Connectors	(4) Type A 19-pin female
Power Supply	5V DC
Power Consumption	10 watts (max.)
Operating Temperature	0 - 40 °C
Dimensions	6.9" W x 2.1" H x 6.9" 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, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

PRODUCT REGISTRATION

Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.

* MA - GTV - HDMI 1.3 - 144 *

Rev A2

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This product uses UL listed power supplies.