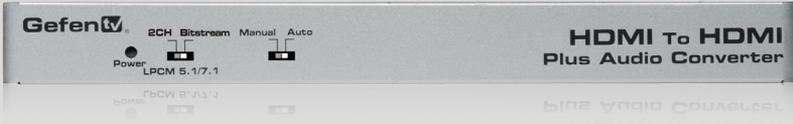


HDMI to HDMI Plus Audio Converter

GTV-HDMI-2-HDMI-AUD

User Manual

Release A3



Gefentv®

Important Safety Instructions

GENERAL SAFETY INFORMATION

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

Warranty Information

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.

Contacting Gefen Technical Support

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20600 Nordhoff St.
Chatsworth, CA 91311

Telephone: (818) 772-9100
(800) 545-6900

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Email: support@gefen.com

Visit us on the Web: www.gefen.com

Technical Support Hours: 8:00 AM to 5:00 PM Monday - Friday, Pacific Time

HDMI to HDMI Plus Audio Converter is a trademark of Gefen, LLC.

Important Notice

Gefen, LLC reserves the right to make changes in the hardware, packaging, and any accompanying documentation without prior written notice.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing in the United States and other countries.

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Operating Notes

- This product does not decode audio formats.

Features and Packing List

Features

- Supported HDMI Features:
 - ▶ Resolutions up to 1080p Full HD
 - ▶ 12-bit Deep Color
 - ▶ LPCM 7.1 Audio, Dolby® TrueHD, and DTS-HD Master Audio™
 - ▶ 3DTV pass-through
 - ▶ CEC pass-through
 - ▶ Lip Sync pass-through
- Switchable selection between Auto mode and Manual mode
- Bitstream Audio via Optical Toslink and LPCM 7.1 via 8 RCA connectors
- Locking power supply



Packing List

The HDMI to HDMI Plus Audio Converter ships with the items listed below. If any of these items are not present in the box when you first open it, immediately contact your dealer or Gefen.

- 1 x HDMI to HDMI Plus Audio Converter
- 1 x 6 ft. HDMI Cable
- 1 x 5V DC Locking Power Supply
- 1 x Quick-Start Guide

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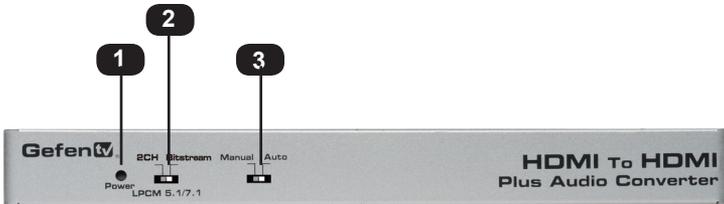
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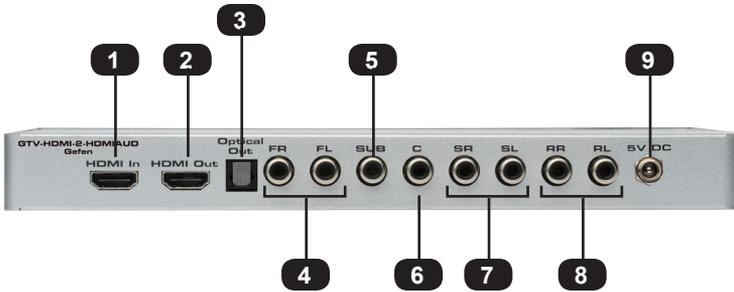
Panel Layout

Front



ID	Name	Description
1	Power	This LED indicator will glow bright blue when the unit is powered.
2	2CH LPCM 5.1 / 7.1 Bitstream	This switch selects the desired audio output. In order to use this switch, the Manual / Auto switch must be set to the Manual position. See Audio Output for more information.
3	Manual / Auto	Selects between manual or automatic audio output selection. To “force” the audio output format, this switch must be set to the Manual position. See Audio Output for more information.

Back



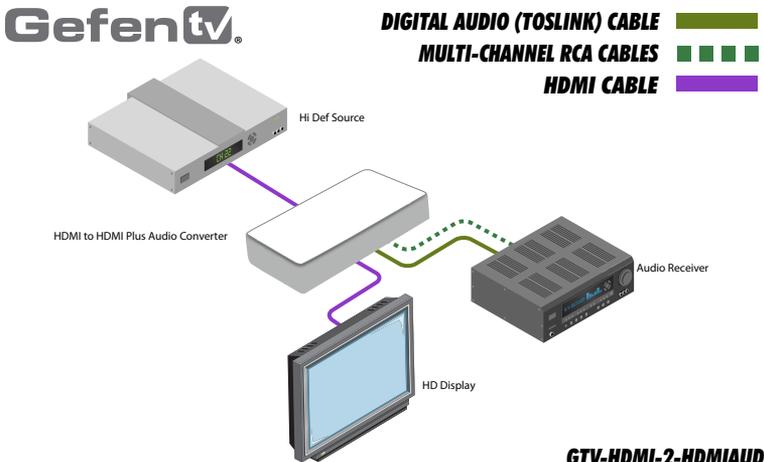
ID	Name	Description
1	HDMI In	Use the included HDMI cable to connect a Hi-Def source to this HDMI port.
2	HDMI Out	Connect an HDMI cable between this ports and an HD display.
3	Optical Out	Connect an optical cable from the Optical Out port to the TOSLINK connector of an A/V receiver.
4	FR / FL	Use RCA cables to connect these two ports to the Front Right / Front Left channel connectors on the A/V receiver.
5	SUB	Use RCA cables to connect this port to the Subwoofer channel connector on the A/V receiver.
6	C	Use RCA cables to connect this port to the Center channel connector on the A/V receiver.
7	SL / SR	Use RCA cables to connect this port to the Surround Right / Surround Left channel connectors on the A/V receiver.
8	RR / RL	Use RCA cables to connect this port to the Surround Right / Surround Left channel connectors on the A/V receiver.
9	5V DC	Connect the included 5V DC power supply to this power receptacle.

Installation

Connecting the HDMI to HDMI Plus Audio Converter

1. Connect the included HDMI cable between the Hi-Def source and the HDMI In port on the HDMI to HDMI Plus Audio Converter.
2. Connect another HDMI cable between the HDTV display and the HDMI Out port on the HDMI to HDMI Plus Audio Converter.
3. Connect an optical audio cable from the Optical Out port to the TOSLINK port on the A/V receiver.
4. Connect the HDMI to HDMI Plus Audio Converter to an optional external amplifier using the RCA connectors on the rear panel. The following RCA connectors are available:
 - ▶ Front Left
 - ▶ Front Right
 - ▶ Subwoofer
 - ▶ Center
 - ▶ Surround Right
 - ▶ Surround Left
 - ▶ Right-Rear Surround
 - ▶ Left-Rear Surround
5. Connect the included 5V DC power supply to the power receptacle on the HDMI to HDMI Plus Audio Converter. Connect the AC power cord to an available electrical outlet.

Sample Wiring Diagram



HDMI to HDMI Plus Audio Converter

02 Operating the HDMI to HDMI Plus Audio Converter

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Audio Output

The table below, provides a summary of the audio formats supported by each output.

Audio Format	HDMI Out	Optical Out	Analog Output
2-channel LPCM	Yes	Yes	Yes
5.1-channel LPCM	Yes	No	Yes
7.1-channel LPCM	Yes	No	Yes
Dolby® Digital	Yes	Yes	No
DTS Digital Surround™	Yes	Yes	No
Dolby® TrueHD	Yes	No	No
DTS-HD Master Audio™	Yes	No	No

There are two switches on the front of the unit to the right of the power LED. The switch next to the power LED controls the audio output format. The switch to the right sets the unit to *manual* or *auto* mode. See [Panel Layout](#) for more information.

Mode Selection

Auto Mode

In this mode, the converter will output the highest common video resolution and audio capability according to the EDID data it retrieves from the connected display device.

Manual Mode

In this mode, the converter will use a preset EDID that is stored in the converter from the factory. This pre-programmed standard EDID data structure is compatible with most A/V devices. All resolutions and audio formats specified in this EDID will be passed to the source device, allowing the user to set the video resolution and audio capability.

Switch Position	Audio Format	Audio Output
2CH	<ul style="list-style-type: none"> LPCM 2-channel 	<ul style="list-style-type: none"> HDMI Out Analog Optical Out
LPCM 5.1 / 7.1	<ul style="list-style-type: none"> LPCM 	<ul style="list-style-type: none"> HDMI Out Analog
Bitstream	<ul style="list-style-type: none"> LPCM 2-channel Dolby® Digital DTS Digital Surround™ 	<ul style="list-style-type: none"> HDMI Out Optical Out

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Specifications

Supported Formats	
Video	<ul style="list-style-type: none"> • 1080p Full HD • 1920 x 1200 (WUXGA)
Audio	<ul style="list-style-type: none"> • LPCM 7.1 • Dolby® TrueHD • DTS-HD Master Audio™

Connectors	
HDMI In	<ul style="list-style-type: none"> • 1 x HDMI Type A 19-pin, female, locking
HDMI Out	<ul style="list-style-type: none"> • 1 x HDMI Type A 19-pin, female, locking
Optical Out	<ul style="list-style-type: none"> • 1 x TOSLINK®
Analog Audio Outputs	<ul style="list-style-type: none"> • 8 x RCA type: FL, FR, SUB, C, SR, SL, RR, RL
Power	<ul style="list-style-type: none"> • 1 x 5V DC, locking

Operational	
Maximum Pixel Clock	<ul style="list-style-type: none"> • 225 MHz
Power Input	<ul style="list-style-type: none"> • 1 x 5V DC, locking
Power Consumption	<ul style="list-style-type: none"> • 13W (max.)
Operating Temperature	<ul style="list-style-type: none"> • +32 to +104 °F (0 to +40 °C)

Physical	
Dimensions (W x H x D)	<ul style="list-style-type: none"> • 10.25" x 1" x 4.25" • (260mm x 25mm x 108mm)
Shipping Weight	<ul style="list-style-type: none"> • 4 lbs (1.8 kg)



Stretch It, Switch It, Split It.
Gefen's Got it. ®

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This product uses UL or CE listed power supplies.