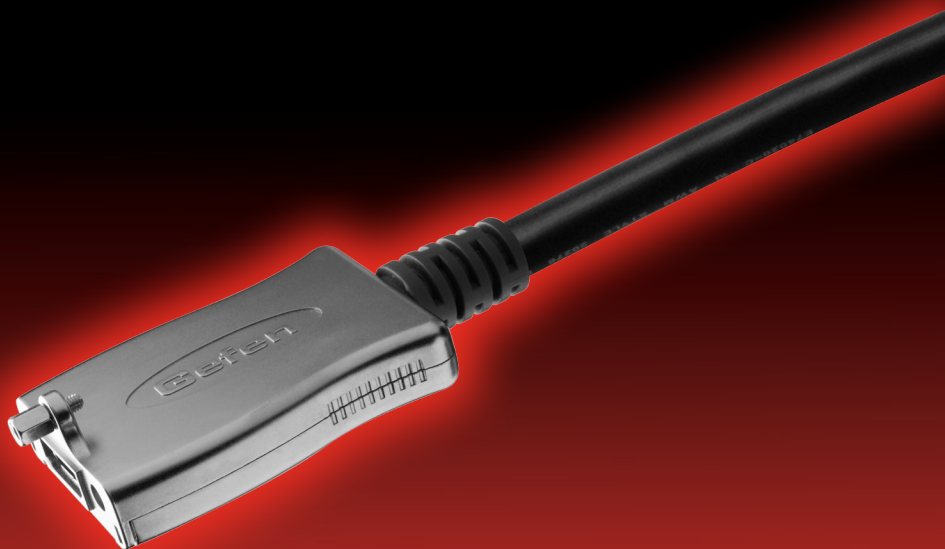




HDMI Super Booster Cable

EXT-HDMISB-150 • EXT-HDMISB-125
EXT-HDMISB-100 • EXT-HDMISB-75
EXT-HDMISB-50

User Manual



Release A3

Important Safety Instructions

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 a 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 power cords 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.

Technical Support

8:00 AM to 5:00 PM Monday - Friday, Pacific Time
(818) 772-9100 (800) 545-6900

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Mailing Address

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

Product Registration

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

Operating Notes

- The HDMI Super Booster Cable includes a 5V DC power supply. Under normal circumstances, the source will supply the required voltage to power the cable. If the source device does not power the cable, then the included 5V DC power must be used.

HDMI Super Booster Cable is a trademark of Gefen, LLC.

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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All trademarks are the property of their respective owners.

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



This product uses UL or CE listed power supplies.

Features

- Supported HDMI Features
 - ▶ 225 MHz
 - ▶ LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™
 - ▶ CEC pass-through
 - ▶ Lip-sync pass-through
 - ▶ HDCP-compliant
- Perfect digital high-definition video sent over long stretches of HDMI cables
- Locate an HDMI display up to 150 feet away from any HD source
- Supports resolutions up to 1080p Full HD, 2K, and 1920 x 1200
- HDMI-compliant



Packing List

The HDMI Super Booster Cable 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 Super Booster Cable
- 1 x 5V DC power supply
- 1 x Quick-Start Guide

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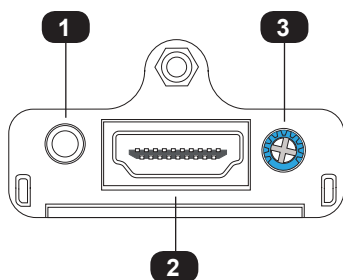
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HDMI Super Booster Cable

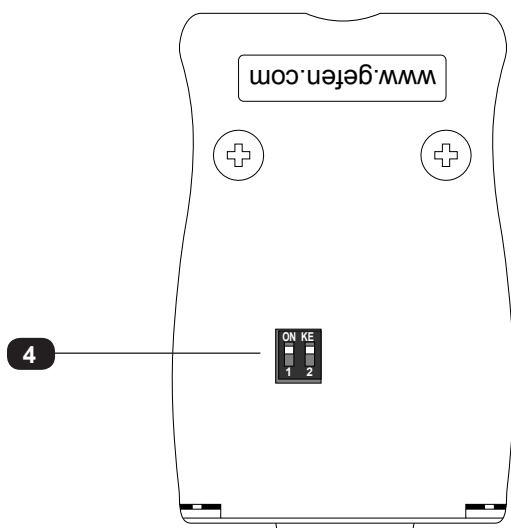
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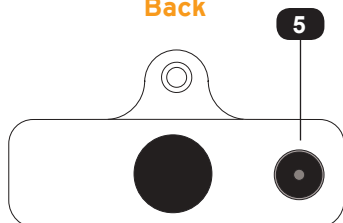
Front



Bottom



Back



ID	Name	Description
1	Power Indicator	This LED indicator will glow solid green when the HDMI Super Booster Cable is powered. See Connection Instructions (page 4) for more information.
2	HDMI Out	Use an HDMI cable to connect an HD display to this HDMI port.
3	EQ Trim Pot	Use a Phillips-type screwdriver to turn this trim pot and adjust the output signal. See Adjusting the Signal Quality (page 9) for more information.
4	DIP Switches	These DIP switches are used for coarse signal adjustment, depending upon the length of the cable that was purchased. See DIP Switch Configuration (page 8) for more information.
5	Power Receptacle	Connect the included 5V DC power supply to this power receptacle. This is only required if the source device does not supply the required voltage (5V). See Connection Instructions (page 4) for more information.

Connection Instructions

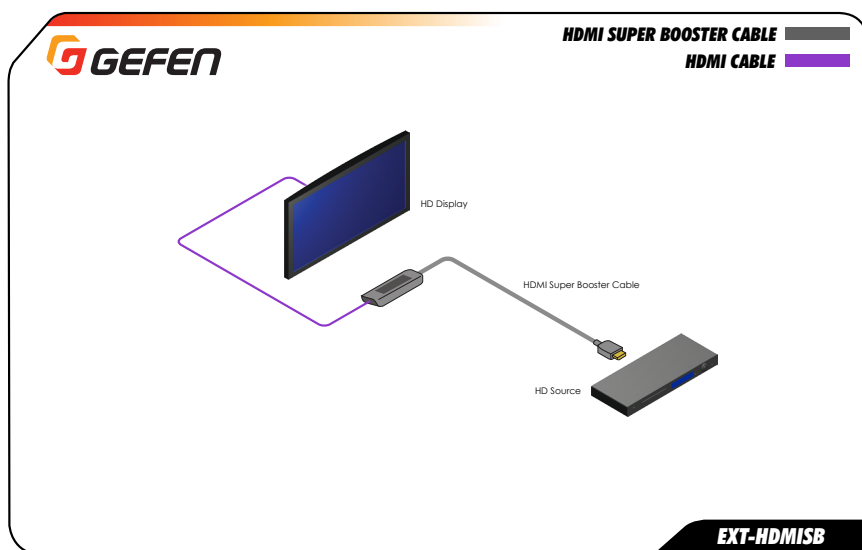
► Video

1. Connect the HDMI cable from the HD display to the **HDMI Out** port on HDMI Super Booster Cable. The HDMI cable should not exceed 6 feet (2 meters) in length.
2. Connect the opposite end of the HDMI Super Booster cable to the source device.

► Power

3. First, make sure both the source and the display (sink) device are powered.
4. Check the Power Indicator on the front of the HDMI Super Booster Cable.
 - If the LED indicator is "off", then connect the included 5V DC power supply to the Power Receptacle on the HDMI Super Booster Cable.
 - If the LED indicator glows bright green, then the power supply is not required.

Sample Wiring Diagram



HDMI Super Booster Cable

2 Basic Operation

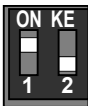
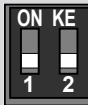
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DIP Switch Configuration

On the bottom of the HDMI Super Booster Cable are a bank of 2 DIP switches. These DIP switches provide two functions. 1) Setting the cable length. 2) Switching between *manual* and *automatic* EQ modes. See Manual and Automatic Equalization, below, for information on using DIP switch 2.

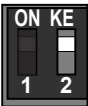
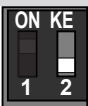
Default Settings

The following table lists the default (factory) settings of each DIP switch. Use a small, pointed object to slide the DIP switches to the required position.

Cable length	DIP Switch Position	
50 / 75 feet (15 / 23 meters)	DIP 1: ON DIP 2: OFF	
100 / 125 / 150 feet (30 / 38 / 45 meters)	DIP 1: OFF DIP 2: OFF	

Manual and Automatic Equalization

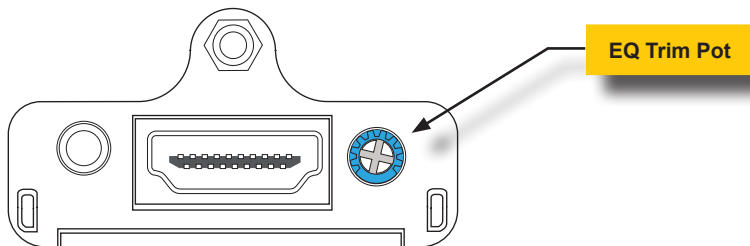
DIP switch 2 is used to switch between *manual* and *automatic* equalization. When the HDMI Super Booster Cable is in “Auto EQ” mode, adjusting the EQ trim pot will have no effect on the video signal. See [Adjusting the Signal Quality \(page 9\)](#) for more information.

Settings	DIP Switch Position	
Auto EQ mode	DIP 1: ---- DIP 2: ON	
Manual EQ mode	DIP 1: ---- DIP 2: OFF	

Adjusting the Signal Quality

The HDMI Super Booster Cable has a trim pot that is used to fine-tune the output signal. If there is no output video or if output video contains video artifacts and/or video noise such as snow, use the steps below to adjust the trim pot.

1. Make sure DIP switch 2 is in the OFF position.
2. Use a small Phillips-head screwdriver to turn the EQ pot.
3. Turn the trim pot in a clockwise or counter-clockwise direction, slowly, until the video signal is clear.



Important!

Do not force the trim pot beyond its limit of rotation. Doing so may break the internal EQ mechanism and damage the cable.

HDMI Super Booster Cable

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Supported Formats

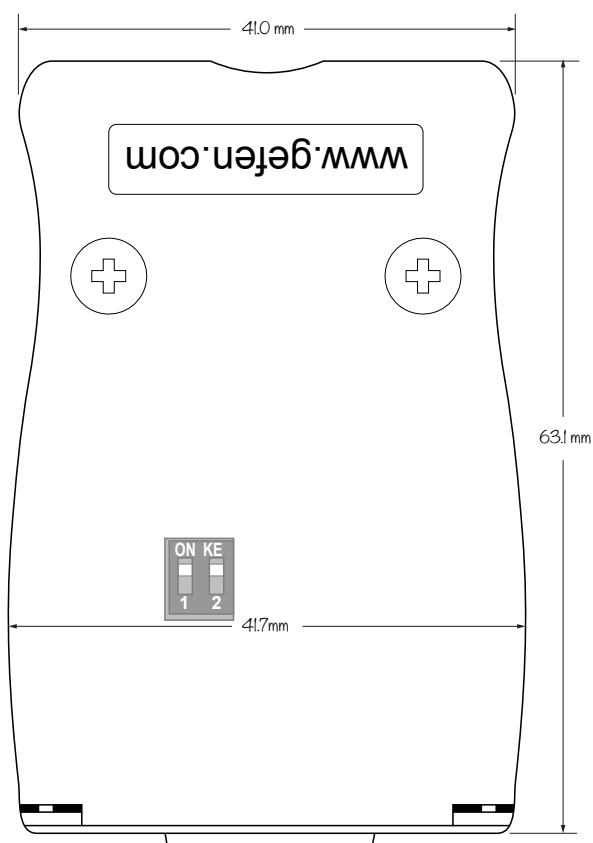
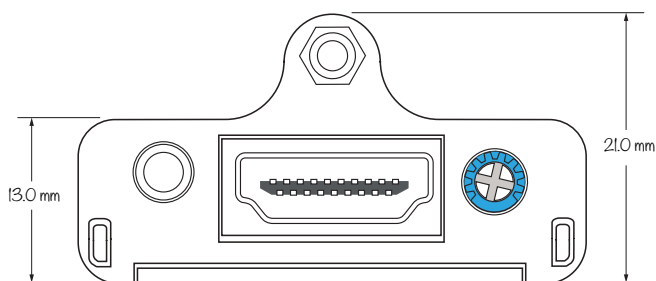
Video	• 1080p Full HD • 1920 x 1200 (WUXGA) • 2K
Audio	• 7.1 Linear PCM • Dolby® TrueHD • DTS-HD Master Audio™

Connectors, Indicators, and Controls

Video Input	• 1 x HDMI Type A, 19-pin, male
Video Output	• 1 x HDMI Type A, 19-pin, female
Power Indicator	• 1 x LED, green
DIP switches	• 1 x bank, 2 each
EQ Trim	• 1 x rotary pot

Operational

Maximum Pixel Clock	• 225 MHz
Power Input (Optional)	• 5V DC
Operating Temperature	• +32 to +104 °F (0 to +40 °C)





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