



StarTech.com HDBOOST4K HDMI Signal Booster User Manual

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StarTech.com HDBOOST4K HDMI Signal Booster



FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

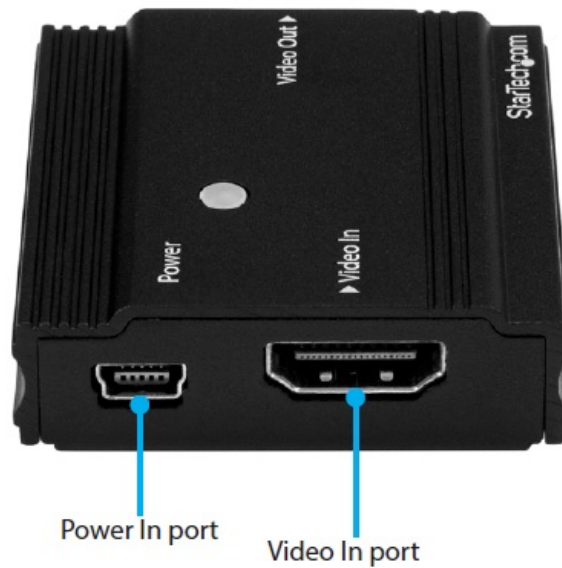
This Class B digital apparatus complies with Canadian ICES-003. CAN ICES-3 (B)/NMB-3(B)

Use of Trademarks, Registered Trademarks, and Other Protected Names and Symbols

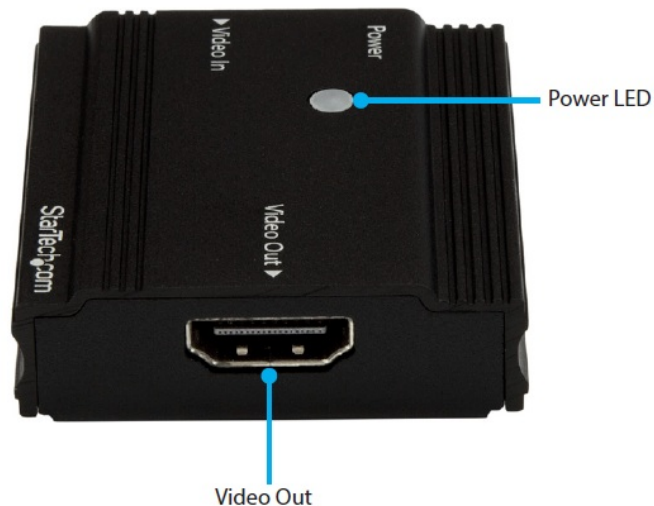
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Product diagram

Front view



Rear view



Introduction

This 4K HDMI® signal booster lets you increase the signal strength of your HDMI video source so that it can travel greater distances. Using standard HDMI cables, you can achieve resolutions up to 4K at 60Hz at distances of up to 30 ft. (10 m). The booster also supports distances up to 115 ft. (35 m) at 1080p 60Hz resolution.

Packaging contents

- 1 x HDMI signal booster
- 1 x 5 ft [1.5 m] USB power cable

System requirements

- 1 x HDMI video source
- 1 x HDMI cable up to 50 ft. in length, to connect from your source to the booster
- 1 x HDMI cable up to 65 ft. in length, to connect from the booster to your display
- 1 x HDMI display with cabling

Installation

Important installation notes:

- Maximum supported resolution varies depending on your extension distance.
 - The HDMI cable connected to your video source must be shorter than or equal to the length of the cable connected to your display.
 - The maximum supported video source cable length is 115 ft. (35 m).
 - The maximum supported display cable length is 50 ft. (15 m).
 - Ensure your video source and display are turned off before you begin the installation.
 - While the HDMI booster has a power adapter port, no power adapter is required. However, if you're using a low-powered HDMI source such as the HDMI output on a Mac Mini computer, the use of a power adapter may improve the signal distance.
1. Determine where you'd like your video source to be located and set up your HDMI video source as instructed by the documentation included with it.
 2. Determine where you'd like your display to be located (within 115 ft. of your video source) and set up your HDMI display for use as instructed by the documentation included with it.
 3. Connect an HDMI cable, up to 50 ft. in length (sold separately), to the output of your video source and to the signal booster's HDMI input port.
 4. Connect an HDMI cable, up to 65 ft. in length (sold separately), to the signal booster's HDMI output port and to the HDMI input on your display.
 5. Turn on your HDMI video source and your HDMI display. Your video source will now be shown on the display.

Supported resolutions and cable lengths

Reference the table below for supported resolutions and cable lengths.

Cable length from source	Cable length to display	Total cable length	Maximum resolution
50 ft. (15 m)	65 ft. (20 m)	115 ft. (35 m)	1080p (60Hz) – 1920 x 1080
32 ft. (10 m)	50 ft. (15 m)	82 ft. (25 m)	4K (30Hz) – 3840 x 2160
15 ft. (5 m)	15 ft. (5 m)	30 ft. (10 m)	4K (60Hz) – 3840 x 2160

LED indicator

The HDMI booster features an LED indicator that communicates the booster's operating status. Review the chart below to determine the significance of the LED status.

LED	Behavior	Significance
Power/Activity LED	Solid Green	The HDMI signal booster is receiving power.
Power/Activity LED	Solid Blue	An HDMI display is connected to the Output Port. The setup is complete and the device is working properly.

Specifications

Warranty	2 years
Audio specifications	7.1 surround sound
Maximum distance	115 ft. (35m) (Up to 1080p)
Maximum resolution	3840 x 2160 (60Hz) at up to 30 ft. (10 m) 3840 x 2160 (30Hz) at up to 82 ft. (25 m) 1020 x 1080 (60 Hz) at up to 115 ft. (35 m)
Supported resolutions	3840 x 2160 (4K), 1920 x 1080, 1680 x 1050, 1600 x 900, 1440 x 900, 1360 x 768, 1280 x 800, 1280 x 768, 1280 x 720
Connector(s)	Input: 1 x HDMI (19 pin) Female Output: 1 x HDMI (19 pin) Female
Indicators	1 x power LED (blue) 1 x video source LED (blue)
Environmental	Humidity: 5% to 90% Operating temperature: 0°C to 70°C (32°F to 158°F) Storage temperature: -10°C to 80°C (14°F to 176°F)

Technical support

StarTech.com's lifetime technical support is an integral part of our commitment to providing industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads. For the latest drivers/software, please visit www.startech.com/downloads

Warranty information

This product is backed by a two-year warranty. StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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FREQUENTLY ASKED QUESTIONS

What is the purpose of the StarTech.com HDBOOST4K HDMI Signal Booster?

The StarTech.com HDBOOST4K HDMI Signal Booster is used to extend the length of HDMI cables and maintain the signal integrity for 4K Ultra HD video and audio transmissions.

How does the HDBOOST4K HDMI Signal Booster work?

The HDBOOST4K HDMI Signal Booster amplifies and equalizes the HDMI signal, compensating for signal degradation over long cable runs.

What is the maximum length of HDMI cable that the HDBOOST4K HDMI Signal Booster can support?

The HDBOOST4K HDMI Signal Booster can support HDMI cable lengths up to 50 feet (15 meters) for 4K Ultra HD signals.

Does the StarTech.com HDBOOST4K HDMI Signal Booster support 4K resolution?

Yes, the HDBOOST4K HDMI Signal Booster supports 4K Ultra HD resolution.

Can I use the HDBOOST4K HDMI Signal Booster with lower resolution video signals, such as 1080p?

Yes, the HDBOOST4K HDMI Signal Booster is backward compatible with lower-resolution video signals as well.

Does the StarTech.com HDBOOST4K HDMI Signal Booster support HDR (High Dynamic Range) content?

Yes, the HDBOOST4K HDMI Signal Booster supports HDR content.

Is the HDBOOST4K HDMI Signal Booster compatible with HDMI 2.0 and HDMI 2.1 standards?

Yes, the HDBOOST4K HDMI Signal Booster is compatible with both HDMI 2.0 and HDMI 2.1 standards.

Can I use multiple HDBOOST4K HDMI Signal Boosters in a daisy-chain configuration?

While daisy-chaining multiple boosters might be possible, it is not recommended, as it could introduce signal degradation.

Does the HDBOOST4K HDMI Signal Booster require an external power source?

Yes, the HDBOOST4K HDMI Signal Booster requires an external power adapter to operate.

How do I install the StarTech.com HDBOOST4K HDMI Signal Booster?

Installing the HDBOOST4K HDMI Signal Booster is straightforward. You connect one end of the HDMI cable to the input of the booster and the other end to the output. Then, connect the power adapter to the booster.

Can the HDBOOST4K HDMI Signal Booster be used with active HDMI cables?

Yes, the HDBOOST4K HDMI Signal Booster can be used with both active and passive HDMI cables.

Can the HDBOOST4K HDMI Signal Booster fix HDMI signal dropouts and video/audio glitches?

Yes, the HDBOOST4K HDMI Signal Booster can help alleviate signal dropouts and video/audio issues caused by long HDMI cable runs.

Is the HDBOOST4K HDMI Signal Booster suitable for both residential and commercial AV installations?

Yes, the HDBOOST4K HDMI Signal Booster can be used in both residential and commercial applications.

Can I use the HDBOOST4K HDMI Signal Booster with gaming consoles and media players?

Yes, the HDBOOST4K HDMI Signal Booster is compatible with various HDMI sources, including gaming consoles and media players.

Does the HDBOOST4K HDMI Signal Booster support Dolby Atmos and DTS:X audio formats?

Yes, the HDBOOST4K HDMI Signal Booster supports various audio formats, including Dolby Atmos and DTS: X.

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