

Specifications

Environment	HDMI 1.4 (3D)
Devices	DVD/Blu-Ray, plasma, projectors, monitors, TV, PC, laptops
Transmission	Transparent to the user
Frequency	25 to 340 MHz
Signals	HDMI 1.4 protocol
Connectors	HDMI Type A 19-pin female, TOSLINK & 3.5mm Stereo Jack
LEDs	One (1) Power: Blue One (1) LPCM: Blue One (1) Sync: Blue
Power Control	Push button on the front of the unit
Resolution	480i to 1080p @ 50/60 fps 1080p @ 24/50/60 fps 3840 X 2160 @ 24/25/30 fps VGA to UXGA
Color	8, 10 & 12 bit
Audio Format	HDMI Output: LPCM, Dolby Digital, DTS, Dolby Digital Plus, Dolby True-HD, DTS-HD Master Audio Optical Output: LPCM, Dolby Digital, DTS Stereo Output: Analog Stereo
Sampling Rate	HDMI Output: 192 KHz Optical Output: 192 KHz Stereo Output: 48 KHz
HDCP	Revision 1.3
Cable	HDMI Cable
Temperature	Operating: 0° to 40°C Storage: -20° to 60°C Humidity: up to 90% non-condensing
Enclosure	Metal enclosure
Dimensions	3.74" x 3.27" x 0.91" (95 mm x 83 mm x 23 mm)
Weight	1 lbs (0.45 Kg)
Power Supply	5VDC, 2A with interchangeable blade for US, UK and Euro
Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 years
Order Information	500431 HDMI to HDMI with Audio Extraction, UHD-4K



HDMI to HDMI with Audio Extraction, UHD-4K (500431) Quick Installation Guide

Overview

The HDMI to HDMI with Audio Extraction (500431) allows one (1) HDMI source to be distributed to one (1) HDMI display. The product supports up to 4K (3840 x 2160), 8-bit color and HD audio. The extracted audio is available on an S/PDIF TOSLINK and 3.5mm Stereo Jack. The product is HDCP 1.3 compliant and features LED diagnostics. Applications include commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical information systems.

Pre-Installation Check

Identify the connectors as indicated on the product



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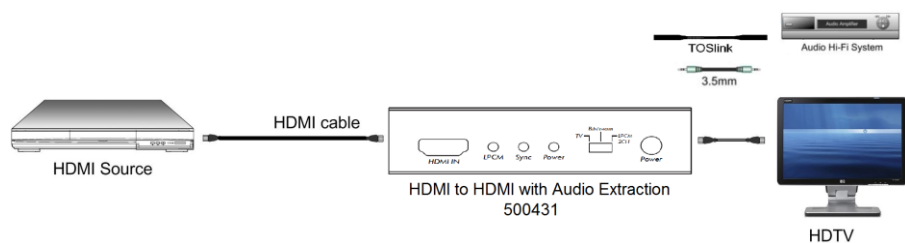
Installation

In order to install the HDMI to HDMI with Audio Extraction, please follow the steps below:

1. Connect the HDMI video source to the input connector of the HDMI to HDMI Audio Extractor.
2. Connect the HDMI display equipment to the output connector of the HDMI to HDMI Audio Extractor.

Note: Connecting a display is optional; the product will still extract the audio from the HDMI signal even if no display is connected.

3. Connect the audio receiver to the appropriate output connector of the HDMI to HDMI Audio Extractor.
4. Select the appropriate mode using the front switch (3 options):
 - **TV Mode:** Audio capability supported by the television
 - **Bitstream Mode:** Audio supports up to 5.1 channels of compressed audio such as Dolby and DTS.
 - **LPCM 2CH:** Audio supports limited to 2 LPCM Channels
5. Connect the 5VDC power supply to the product first, and then plug the power supply into an AC power outlet.
6. Power on the HDMI equipment and verify the image quality.
7. The following diagram shows the final configuration.



Troubleshooting

The following tables describe some of the symptoms, probable causes and possible solutions in respect to the installation of the HDMI to HDMI with Audio Extraction.

Picture/Sound	Probable Cause	Possible Solution
No Image	Wiring	Check continuity Check correct wiring
No Image	Synchronization	Power off the source and the display. Power on the devices.
Flickering Image	Synchronization	Check HDMI cable length
Choppy Sound	Synchronization	Check HDMI cable length
Noise in image	Weak signal	Check HDMI cable length
Green or pink hue	Cable	Check HDMI cables and replace.
TV sound not Working	Sound capability mismatch	Select TV using the front switch, to match the sound capability of the source to the television.
Noisy Sound	Compressed bitstream	When compressed bitstream is selected the stereo output (3.5 mm Jack) cannot be used. Set the source to send a Stereo LPCM signal or select LPCM 2CH using the front switch.
Multi-Channel not working	Stereo jack selected	This device doesn't down-mix the audio channels. When using the stereo output, set the source to send a stereo LPCM signal or select LPCM 2CH using the front switch
Multi-Channel not working	Sink equipment not supporting Multi-Channel configuration	Verify that the sink device connected to the HDMI output is supporting Multi-Channel sound configuration. Verify that the front switch is set to bitstream.

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).