

# Specifications

<b>Environment</b>	HDMI 2.0a, Dolby Digital, DTS or LPCM
<b>Devices</b>	Cable/Satellite Set-Top Box, DVD, Blu-Ray, TV, PC, laptops.
<b>Video Bandwidth</b>	18 Gbps
<b>Frequency Range</b>	25 to 600 MHz
<b>Signals</b>	HDMI 2.0a protocol, Dolby Digital, DTS or LPCM up to 7.1 channels
<b>HDCP</b>	Revision 1.4 & 2.2 compliant.
<b>Connectors</b>	Two (2) HDMI connectors Two (2) RCA Connectors One (1) Mini-USB (for firmware updates) <i>Note: Audio cables not included.</i>
<b>Distortion</b>	<0.001% @ 1KHz
<b>SNR</b>	> 90 dB (20Hz – 20 KHz)
<b>Sample Rate</b>	32, 44.1, 48, 96 and 192 KHz
<b>Power Supply</b>	One (1) 110-240V/5VDC power supply
<b>Power Consumption</b>	3.20 Watt
<b>Temperature</b>	Operating: 0° to 40°C                      Storage: -20° to 85°C Humidity: Up to 95% non-condensing
<b>Enclosure</b>	Metal with ABS fire retardant plastic panel
<b>Dimensions</b>	4.50" x 3.00" x 1.25" (114 x 76 x 32 mm)
<b>Weight</b>	1.0 lb (0.45 kg)
<b>Compliance</b>	Regulatory: FCC, CE, RoHS      Flammability: 94V0
<b>Warranty</b>	2 years
<b>Order Information</b>	500439-D&D HDMI Audio Extractor with Video Out, Dolby & DTS

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8495 Dalton Road, Mount Royal, Quebec, Canada. H4T 1V5  
Tel: (514) 905-0588 Fax: (514) 905-0589  
Toll Free (North America): (877) 689-5228  
E-mail: [videoease@muxlab.com](mailto:videoease@muxlab.com) URL: [www.muxlab.com](http://www.muxlab.com)



## HDMI Audio Extractor with Video Out, Dolby & DTS

500439-D&D

### Quick Installation Guide

#### Overview

The HDMI Audio Extractor with Video Out, Dolby & DTS (500439) down mixes all channels from the original HDMI audio stream to a standard RCA analog 2CH audio output. The product supports the following audio formats: LPCM up to 7.1 channels, Dolby Digital & DTS. The HDMI 2.0 Audio Extractor with Video Out, Dolby & DTS supports HDMI video up to 4K @ 60Hz (4:4:4).

#### Applications

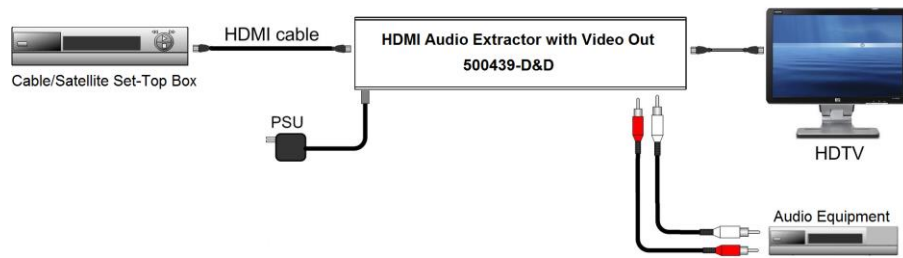
Applications include commercial and residential audio systems, boardroom systems, collaborative PC systems, and medical information systems.

## Installation

1. Identify the connectors on the HDMI Audio Extractor with Video Out, Dolby & DTS as indicated on the product panels above.
2. To install the HDMI Audio Extractor with Video Out, Dolby & DTS:
  - 2a. Connect the extractor HDMI input to the source equipment with a HDMI Cable.
  - 2b. Connect the extractor HDMI output to the sink equipment (such as a Television) with a HDMI Cable.
  - 2c. Connect the extractor Audio Out to the audio equipment using RCA cables.
3. Connect the 5 VDC power supply to the Audio Extractor first, and then plug the power supply into an AC power outlet. If power is present, the green power LED of the Audio Extractor will be ON.

**Note: Power-on the Audio Extractor only after all connections are made.**

4. Power-on the audio source and receiver. Verify the state of the connection based on the LED status, see below.
  - When an HDMI signal is detected on the input, the HDMI In LED will be ON.
  - When an HDMI signal is detected on the output, the HDMI Out LED will be ON.
  - When a valid audio signal is processed, the Audio LED will be ON.
5. The following diagrams show the final configuration.



## Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in regard to the installation of the HDMI Audio Extractor with Video Out, Dolby & DTS:

Symptom	LEDs				Probable Cause	Possible Solutions
	Power	HDMI In	HDMI Out	Audio		
No Video	OFF	OFF	OFF	OFF	No power	• Check power connections
No Video	ON	OFF	OFF	OFF	Source	• Check the source equipment.
No Video	ON	ON	OFF	OFF	Display	• Check the display equipment.
No Sound	ON	ON	ON	OFF	Connection problem, or audio source invalid or not supported.	• Check RCA cable connection. • Set the audio source to LPCM or 5.1 Bitstream digital audio which is supporting Dolby digital and DTS.
Choppy sound	ON	ON	ON	ON	Poor Connection.	• Check RCA cable connection.

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).