

# ASP-DTH

## DVI & Audio to HDMI Converter

### User Manual



Manual Number: 100901

Full HD  
1080

WUXGA  
1920  
x  
1200

**HDMI**<sup>™</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE  
**HDCP**<sup>™</sup>  
HIGH-DEFINITION CONTENT PROTECTION

**dvi**  
digital visual interface



**Aurora**  
Multimedia



## Safety and Notice

The ASP-DTH DVI & Audio to HDMI Converter has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the ASP-DTH should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

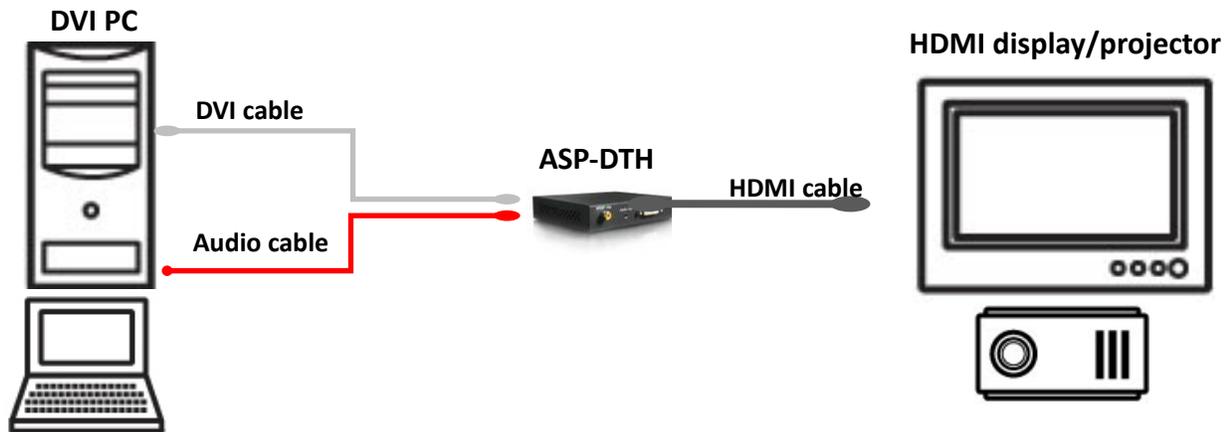
- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



### **Warning!**

***This device is served purely for conversion between video formats.  
This device CANNOT convert the input/output video resolutions.***

The ASP-DTH DVI & Audio to HDMI Converter provides an easy and instant approach for converting digital video (DVI-D) and both digital audio (S/PDIF) and analog stereo audio to digital HDMI. With this module, DVI based devices such as PC with S/PDIF or analog stereo audio can readily connect to your HDMI TV at lowest cost.



## Features

---

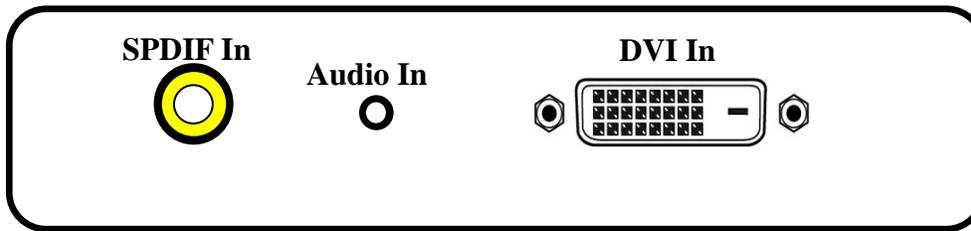
- HDMI 1.2a compatible
- Fully HDCP compliant
- DVI video up to 165MHz
- Coaxial S/PDIF audio input
- Stereo analog audio input
- Front panel LED indicators
- Easy installation

# Specifications & Package Contents

<b>Model Name</b>		<b>ASP-DTH</b>
<b>Technical</b>		<b>Converter</b>
HDMI compliance		HDMI 1.2a
DVI compliance		DVI 1.1
Video Bandwidth		165MHz [4.95Gbps]
Video support		Up to single link: 1080p60, WUXGA [1920x1200@60Hz], UXGA [1600x1200@60Hz] Component video — 720p / 1080i
Audio support		Stereo audio
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
Output video signal		1.2 Volts [peak-to-peak]
Output DDC signal		5 Volts [peak-to-peak, TTL]
Input		1x DVI 1x RCA 1x 3.5mm
Output		1x HDMI
HDMI connector		Type A [19-pin female]
DVI connector		DVI-I [29-pin female digital only]
VGA connector		HD-15 [15-pin D-sub female]
RCA connector		Coaxial S/PDIF digital audio [PCM 48kHz]
3.5mm connector		Analog stereo audio
Control Switch		2-pin DIP switch
<b>Mechanical</b>		<b>ASP-DTH</b>
Housing		Metal case
Dimensions [L x W x H]	Model	125 x 95 x 25mm [4.9" x 3.7" x 1"]
	Package	175 x 270 x 80mm [6.9" x 10.6" x 3.1"]
	Carton	450 x 370 x 300mm [1'6" x 1'3" x 1']
Weight	Model	430g [15oz]
	Package	
Power supply		5V 2A DC
Power consumption		4 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]
<b>Package Contents</b>		1x ASP-DTH 1x 5V power adapter 1x User Manual

## Front Panel

---



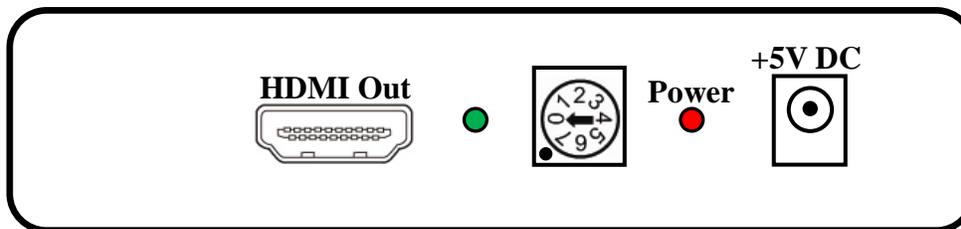
**SPDIF In:** 2-channel digital S/PDIF audio input.

**Audio In:** 2-channel analog audio input thru the 3.5mm earphone jack.

**DVI In:** Connect to a DVI source with a DVI M-M cable here.

## Rear Panel

---



**HDMI Out:** Connect to a HDMI display with a HDMI M-M cable here.

**Green light:** Status indicator.

**Rotary Control:** 0 = Analog audio mode; 1 = S/PDIF audio mode; 2-5 = Reserved; 6 = Use default EDID; 7= Learn EDID from HDMI display.

**Power:** Power indicator. Red light on means power on.

**+5V DC:** Connect to 5V DC power supply.

## EDID Learning

1. Power up the ASP-DTH. Connect HDMI display to **HDMI Out**.
2. Turn the rotary control counterclockwise from 0 to 7.
3. The green light will be bright and then dark to indicate the EDID is learned.
4. Turn the rotary control clockwise from 7 to 0. DO NOT let the rotary control arrow pass 6, which will erase the just learned EDID and reset to default EDID.

# Hardware Installation

1. Connect DVI video source to the video input with a DVI cable.
2. Connect S/PDIF or stereo audio source to RCA jack or 3.5mm earphone jack respectively.
3. Connect HDMI display to the HDMI output connector with a HDMI cable
4. Power up the ASP-DTH.

## Notice

1. Only HDMI enabled TV sets with underscan/overscan\* support, the full active video can be accurately displayed. Some HDMI equipped TV sets may not support this feature. If underscan/overscan\* is NOT supported, the top, bottom, left and right border of the active video may be screened, and the S/PDIF audio may not sound right.
2. Analog stereo audio can merely support 2-channel audio. This version does NOT support 8-channel analog audio applications.
3. S/PDIF audio input can support 2 out of 8-channel audio input.
4. S/PDIF supports only 48kHz audio sample rate. Other than this rate, the input digital audio should be adjusted to 48kHz in order to get audio signal correctly sent.

*\*The **underscan mode** displays the full video frame, which reveals content on the edge that is recorded. In **overscan**, the field monitor zooms in to the area that would be visible on most televisions. Set the field monitor to underscan if your video will be viewed on a computer monitor or shown with a projector and also to look for light stands, microphones, and other unwanted objects on the edges of your shot. Set it to overscan to see how the video will look on a television.*

# Limited 3 Year Warranty

Aurora Multimedia Corp. ("Manufacturer") warrants that this product is free of defects in both materials and workmanship for a period of 3 years as defined herein for parts and labor from date of purchase. Motorized mechanical parts (Hard Drives, DVD, etc), mechanical parts (buttons, doors, etc), remotes and cables are covered for a period of 1 year. Batteries are not covered by this warranty. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with same or similar model) at our option without charge for parts or labor for the specified product warranty period.

This warranty shall not apply if any of the following:

- A) The product has been damaged by negligence, accident, lightning, water, act-of-God or mishandling; or,
- B) The product has not been operated in accordance with procedures specified in operating instructions: or,
- C) The product has been repaired and or altered by other than manufacturer or authorized service center; or,
- D) The product's original serial number has been modified or removed: or,
- E) External equipment other than supplied by manufacturer, in determination of manufacturer, shall have affected the performance, safety or reliability of the product.
- F) Part(s) are no longer available for product.

In the event that the product needs repair or replacement during the specified warranty period, product should be shipped back to Manufacturer at Purchaser's expense. Repaired or replaced product shall be returned to Purchaser by standard shipping methods at Manufacturer's discretion. Express shipping will be at the expense of the Purchaser. If Purchaser resides outside the contiguous US, return shipping shall be at Purchaser's expense.

No other warranty, express or implied other than Manufacturer's shall apply.

Manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction of the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period.

This warranty does not cover damage to the equipment during shipping and Manufacturer assumes no responsibility for such damage.

This product warranty extends to the original purchaser only and will be null and void upon any assignment or transfer.

Aurora Multimedia Corp.  
205 Commercial Court, Morganville, NJ 07751  
Phone: (732) 591-5800 Fax: (732) 591-5801  
[www.auroramultimedia.com](http://www.auroramultimedia.com)