

# CV-511

## HDMI to DVI & Audio Converter

### User Manual



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



**Made in Taiwan**



## **Safety and Notice**

The **CV-511 HDMI to DVI & Audio Converter** has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the CV-511 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.

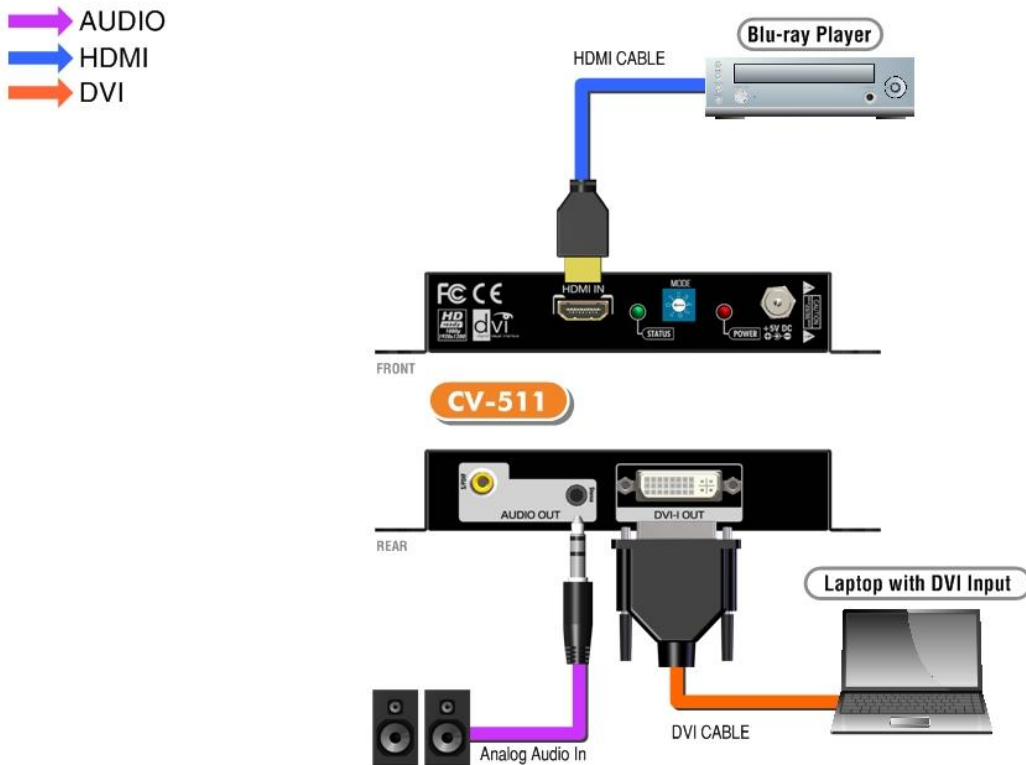
- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this 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.***

This handy device provides an easy and instant approach for converting digital HDMI to digital video (DVI-D) and both digital audio (S/PDIF) and analog stereo audio. With this module, HDMI based devices such as Blu-ray Disc players, PS3, DVD players, camcorders, or set-top boxes can readily connect to your PC LCD monitor and PC speakers at lowest cost. This device also enables users to connect full digital video and audio to DVI enabled monitor and S/PDIF equipped audio receiver and amplifier, and make the highest compatibility to your home theater devices.



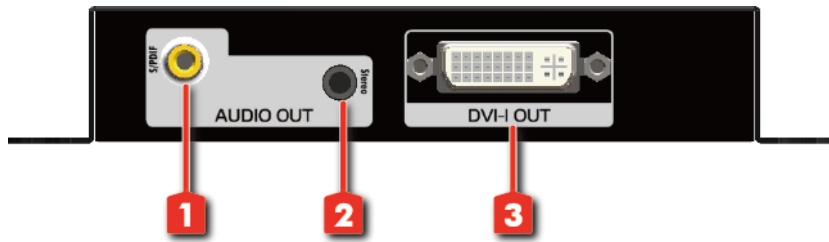
## Features

- Fully HDCP compliant
- DVI video up to 165MHz
- RCA S/PDIF audio input
- Stereo analog audio output
- Front panel LED indicators
- Easy installation

# Specifications & Package Contents

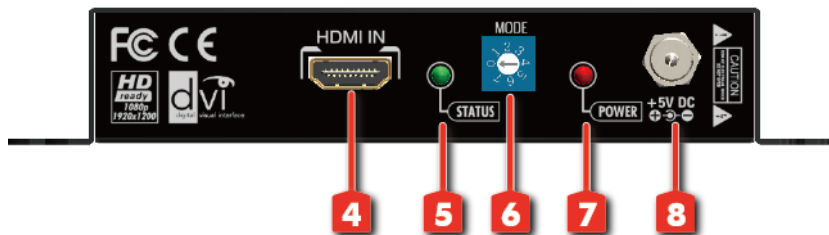
<b>Technical</b>		<b>CV-511</b>
Role of usage		Digital-to-digital format converter
HDMI compliance		HDMI
DVI compliance		DVI 1.0
Video Bandwidth		Single-link 225MHz [6.75Gbps]
Video support		Up to 1080p60, WUXGA [1920x1200@60Hz], UXGA [1600x1200@60Hz]
Audio support		Stereo audio
Output TMDS signal		1.2 Volts [peak-to-peak]
Output DDC signal		5 Volts [peak-to-peak, TTL]
ESD protection		[1] Human body model — ± 19kV [air-gap discharge] & ± 12kV [contact discharge] [2] Core chipset — ± 2kV
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
Input		1x HDMI
Output		1x DVI 1x RCA digital audio 1x 3.5mm analog audio
HDMI connector		Type A [19-pin female]
DVI connector		DVI-I [29-pin female digital only]
RCA connector		Coaxial S/PDIF digital audio [PCM 48kHz]
3.5mm connector		Analog stereo audio
Control Switch		8-level rotary switch for audio & EDID settings
<b>Mechanical</b>		<b>CV-511</b>
Housing		Metal enclosure
Dimensions [L x W x H]	Model	126 x 93 x 26mm [5"x3.7"x1.0"]
	Package	270 x 175 x 80mm [10.6"x6.9"x3.1"]
	Carton	450 x 370 x 300mm [1'6"x1'3"x11.8"]
Weight	Model	339g [12 oz]
	Package	650g [1.4 lbs]
Fixedness		Wall-mounting case with screws
Power supply		Interlocking power jack to prevent power loose
Power consumption		3.5 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 CV-511 1x 5V power supply unit 1x User Manual


## Front Panel



1. **S/PDIF**: connect to S/PDIF digital stereo audio speaker
2. **Stereo**: connect to analog stereo audio speaker
3. **DVI OUT**: connect to digital DVI display

## Rear Panel



4. **HDMI IN**: connect to an HDMI source device
5. **STATUS: Status indicator**  
[Normal operation] – lights up means the HDMI device is connected  
[EDID learning mode] – lights off means the start of EDID learning mode; flashes means the learning the EDID from connected display; lights up means the completion of the EDID learning
6. **MODE: 8-level rotary switch for audio and EDID settings**  


0 = Pair 1 of 7.1ch analog audio output	4 = Reserved
1 = Pair 2 of 7.1ch analog audio output	5 = Reserved
2 = Pair 3 of 7.1ch analog audio output	6 = Restore Default EDID
3 = Pair 4 of 7.1ch analog audio output	7 = Learn EDID from connected display
7. **POWER**: power indicator [light: power on; dim: power off]
8. **+5V DC**: connect to 5V interlocking power supply unit

# Hardware Installation

1. Connect your HDMI source device to the **HDMI IN** port.
2. Connect your DVI display or projector to the **DVI-I OUT** port.
3. Connect your S/PDIF AV receiver to the **S/PDIF** RCA port.
4. Connect your PC speaker to the **Stereo** 3.5mm earphone jack.
5. Power up the CV-511.

\* S/PDIF format is dependent upon the embedded digital audio part in the input HDMI stream. The S/PDIF receiver must be able to recognize the input S/PDIF format. This CV-511 only separates the digital audio in HDMI stream, and bypasses this decoded audio to the output.

\* The function of the rotary switch is reserved and please keep the rotary switch at 0.

## EDID Learning

1. Power up the CV-511. Connect DVI display to the **DVI OUT**.
2. Turn the rotary switch counterclockwise [↺] from 0 to 7.
3. The green LED will flash a few times to indicate the EDID is learned.
4. Turn the rotary switch clockwise [↻] from 7 to 0. DO NOT let the rotary switch arrow pass 6, which will erase the just learned EDID and reset to default EDID.

## Notice

1. Analog stereo audio output can merely support 2-channel audio. This version does NOT support 8-channel analog audio applications.
2. S/PDIF audio output supports main 2-channel audio output only.

# Limited Warranty

The SELLER warrants the **CV-511 HDMI to DVI & Audio Converter** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit 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 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the **CV-511** features and specifications is subject to change without further notice.

