

CV-105

DVI & Audio to HDMI Converter

User Manual



Made in Taiwan



Safety and Notice

The **CV-105 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 CV-105 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.

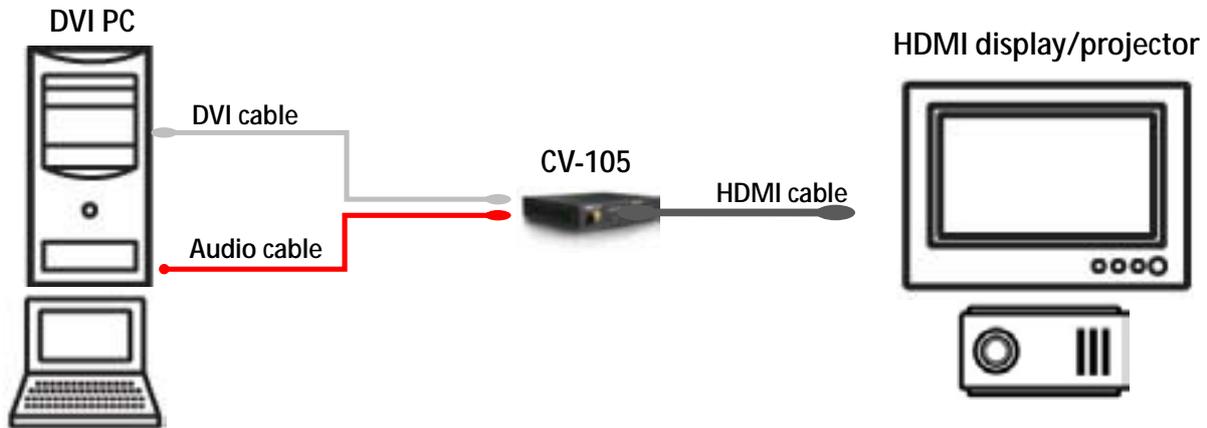


Warning!

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

Introduction

The **CV-105 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

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

Specifications & Package Contents

Model Name		CV-105
Technical		
Role of usage	Digital-to-analog format converter	
HDMI compliance	HDMI	
DVI compliance	DVI 1.1	
Video Bandwidth	Single-link 165MHz [4.95Gbps]	
Video support	720p, WUXGA [1920x1200@60] & UXGA [1600x1200@60]	
Audio support	Stereo audio	
Input TMDS signal	1.2 Volts [peak-to-peak]	
Input 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	
Transmission	UXGA V 65m [210ft]	
Input	1x DVI 1x 3.5mm analog audio RCA connector Sockets for Analog audio and video	
Output	1x HDMI	
RCA connector	75W female	
3.5mm connector	Earphone socket for analog stereo audio	
Mechanical		
Housing	Metal enclosure	
Dimensions [L x W x H]	Model	126 x 94 x 27mm [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	357g [12.6 oz]
	Package	800g [1.8 lbs]
Fixedness	Wall-mounting case with screws	
Power supply	5V 2A DC	
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]	
Package Contents	1x CV-105 1x DC 5V 2A wall wart 1x User Manual	

Panel Descriptions

Front Panel

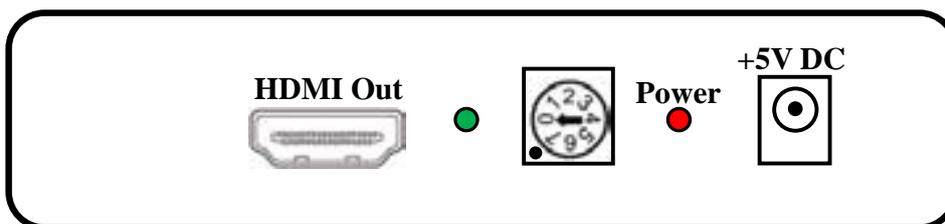


SPDIF In: 2-channel digital S/PDIF audio input.

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.

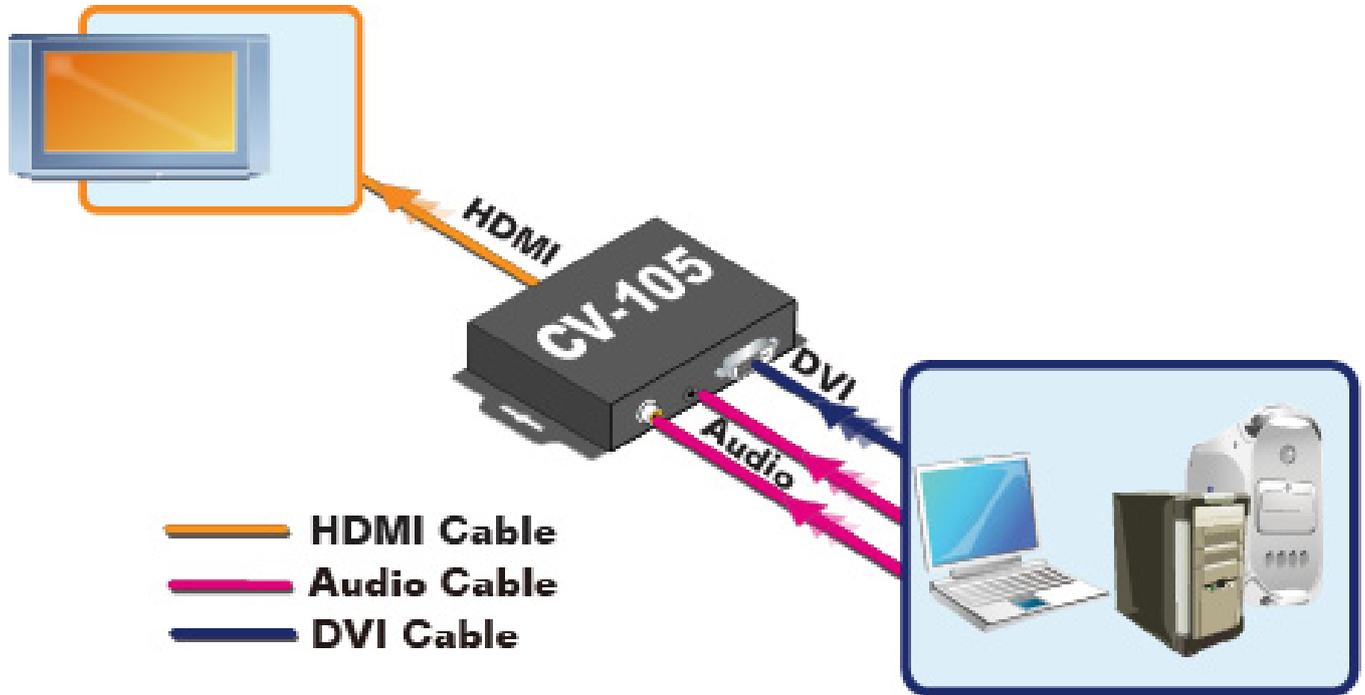
Power: Power indicator. Red light on means power on.

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

EDID Learning

1. Power up the CV-105. 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.

CONNECTION DIAGRAM



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 CV-105.

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 Warranty

The SELLER warrants the **CV-105 DVI & Audio to HDMI 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 are limited to a 30 day warranty and cable 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-105 features and specifications is subject to change without further notice.