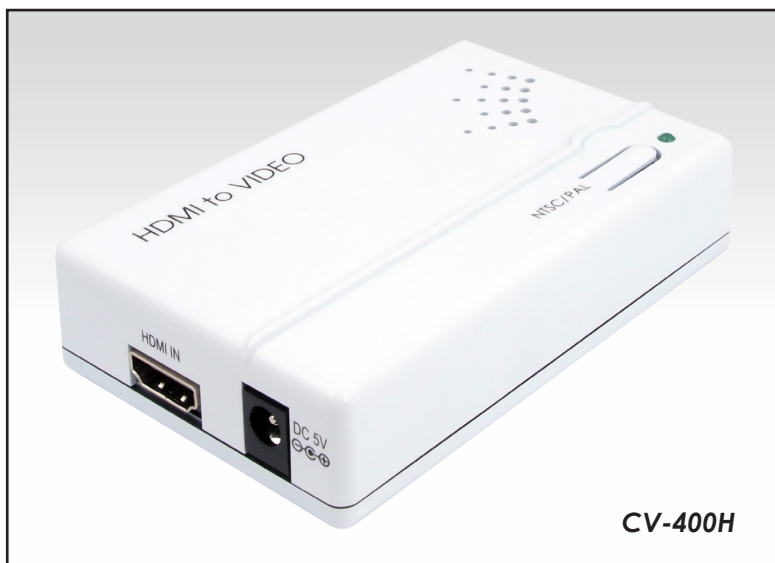


# CV-400H

## HDMI to Video Scan Converter

*Operation Manual*



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## • **Safety Precautions**

Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

## • **Revision History**

<b><i>Version No</i></b>	<b><i>Date</i></b>	<b><i>Summary of Change</i></b>
<b>V1</b>	<b>20100715</b>	<b>Preliminary Release</b>
<b>VS2</b>	<b>20101201</b>	<b>Add HDCP Description</b>
<b>VR3</b>	<b>20110823</b>	<b>Cancel HDCP Complaint</b>

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## **1. Introduction**

The HDMI to CVBS Converter is designed to convert digital signal from HDMI source to analog signal of NTSC or PAL system, with L/R stereo audio. This device provides a convenient application that allows the users to store high definition movie in a standard resolutions of 480i or 576i on DVR or VCR machine.

The device is HDMI 1.2 & DVI 1.0 compliant and it features many great functions such like 3D noise reduction, frame rate conversion, adaptive contrast enhancement...and etc. Further, a simplify OSD function is available allowing user with easy viewing on the displaying status.

## **2. Applications**

- HDMI signal convert into Composite NTSC or PAL signal
- Digital audio signal convert into analog audio signal

## **3. Package Contents**

- HDMI to Composite Converter Box
- 5V / 1A DC Power Adaptor
- Operation Manual

## **4. System Requirements**

Input source equipment such as DVD or Blue-Ray player with HDMI cable and output display TV/Monitor with composite & L/R RCA jack cable.

## **5. Features**

- HDMI 1.2 and DVI1.0 compliant
- Converts video signal from HDMI source to NTSC or PAL signal
- Converts digital audio from HDMI source to analog stereo audio
- Accepts a wide range of HDTV input resolutions, from 480p to 720p@60Hz and PC from VGA@60Hz to WXGA@60Hz
- Output picture size Underscan / Overscan
- 3D noise reduction in both temporal and spatial domain
- Frame rate conversion with arbitrary
- Adaptive contrast enhancement

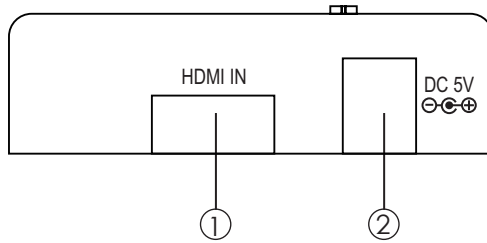
**Note:** This product does not process HDCP input. When receiving content that has HDCP encryption there will be no video output.

## 6. Specifications

Input Port	1 x HDMI,
Output Port	1 x CVBS, 1 x L/R RCA Jack
HDMI Input Resolution	480p, 576p & 720p, VGA@60 / 72 / 75 / 85, SVGA@56 / 60 / 72 / 75 / 85, XGA@60 / 70 / 75, WXGA(1224x768;1280x768;1280x800)@60RB / 60
HDMI Input Audio	LPCM 2Ch, 48kHz
Output Video	NTSC/PAL
Output Audio	Stereo L/R
ESD Protection	Human body model: $\pm 8\text{kV}$ (air-gap discharge) $\pm 6\text{kV}$ (contact discharge)
Dimensions(mm)	114 (W) x 65 (D) x 26(H)
Weight(g)	120
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0°C~40°C / 32°F~104°F
Storage Temperature	-20°C~60°C / -4°F~140°F
Power Consumption	3W
Relative Humidity	20 ~ 90% RH (non-condensing)

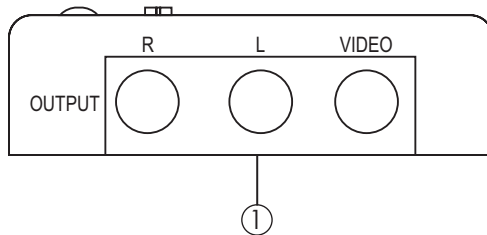
## 7. Operation Controls and Functions

### 7.1 Front Panel



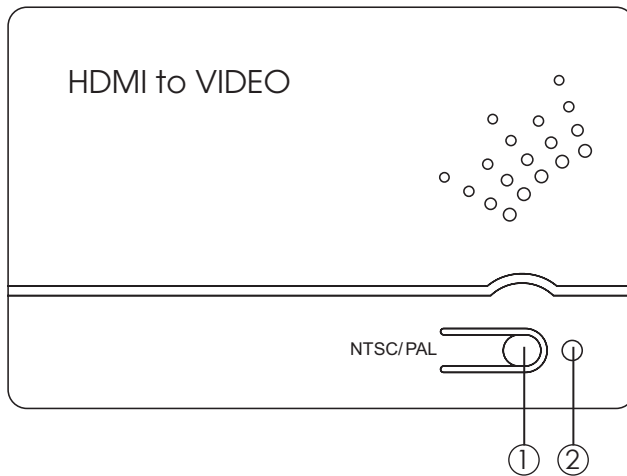
- ① HDMI IN: This slot is to connect with input source equipment such as DVD or Blue-Ray player with HDMI cable.
- ② DC 5V: plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet. The LED will illuminate when the power is plug on.

### 7.2 Rear Panel



- ① OUTPUT R/L/VIDEO: These slots are to connect with output display TV/ monitor with R/L & composite RCA jack cable.

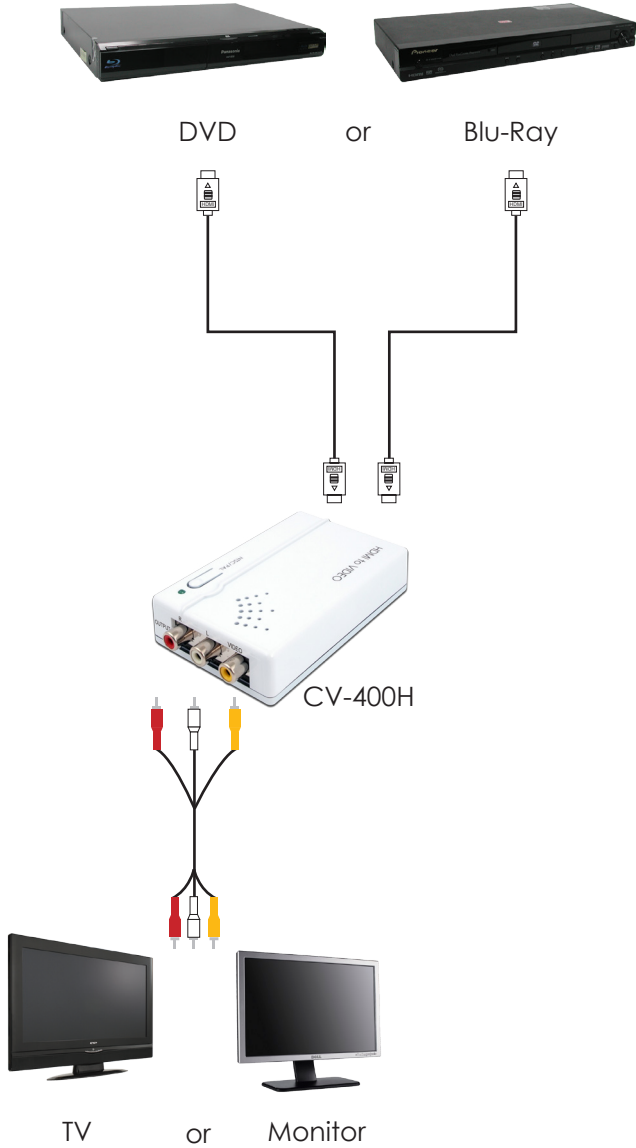
### 7.3 Top Panel



- ① NTSC / PAL: Press this button once to allow OSD to be display on screen and the OSD contents will show input resolution with output system status. Press it again while the OSD still appear on screen to switch the output display to NTSC/PAL system. Press it for 3 second to select underscan/overscan function.
- ② Power LED: Green LED will illuminate when the power is plug on to the AC wall outlet.



## 8. Connection and Installation



# Acronyms

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**Acronym**

**Complete Term**





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MPM-CV400H