

**HDMI to Video CV/SV Downscaler -  
with HDMI pass - ID# 15006**



**Operation Manual**

## Introduction

HDMI to CV/SV Converter is designed to convert digital signal from HDMI (or DVI + Coaxial) source to analog signal of NTSC or PAL system, with L/R stereo audio. Besides S-Video and Composite Video outputs, it also provides one bypass HDMI output to deliver original signal, and a Coaxial output to send S/PDIF digital audio to audio amplifier. The product provides a convenient application that user can watch high definition movie meanwhile record it (in standard resolutions 480i or 576i) to DVR or VCR machine.

## Features

- HDMI 1.2, HDCP1.1 and DVI1.0 compliant
- Converts video signal from HDMI source to NTSC or PAL signal selectable
- Converts digital audio from HDMI or Coaxial source to analog stereo audio
- Accepts a wide range of HDTV resolutions, from 480p/i to 1080p@60Hz and PC from VGA@60Hz to WUXGA@60HzRB.

## Applications

- HDMI to Composite-Video or S-Video signal conversion
- HDMI to NTSC/Pal system conversion

## System Requirements

Input source equipment such as DVD or BLURAY player and output display tv/monitor with connection cables

## Operation Controls and Functions

INPUT A	Both video and audio from HDMI source*
OUTPUT A	HDMI -> Bypass, output original video and audio from HDMI
	COAXIAL -> Output digital audio from HDMI
	CV + UR -> Output analog video / audio converted from HDMI
	SV + UR -> Output analog video / audio converted from HDMI
INPUT B	Video from DVI source and audio from Coaxial source**
OUTPUT B	HDMI -> output original video from DVI and audio from Coaxial
	COAXIAL -> Output digital audio from Coaxial
	CV + UR -> Output analog video converted from DVI, L/R mute***
	SV + L/R -> Output analog video converted from DVI, L/R mute***
INPUT C	Video from DVI source and audio from Coaxial source
OUTPUT C	DVI -> Bypass, output original video from DVI
	COAXIAL -> Output digital audio from Coaxial
	CV + L/R -> Output analog video converted from DVI, L/R mute***
	SV + L/R -> Output analog video converted from DVI, L/R mute***

\* In the scenario of INPUT/OUTPUT A, the audio signal from Coaxial input will not be used.

\*\* DVI input or output can be applied by using HDMI to DVI adapter or cable of similar function.

\*\*\* Analog L/R audio outputs are not available when the audio input is Coaxial, please connect the analog audio from source to your speakers directly.

Supports Coaxial input audio sample rate 44.1KHz, 48KHz, and 96KHz

When the signal from HDMI or DVI source is protected by HDCP (High- bandwidth Digital Content Protection), the HDMI or DVI display needs to support HDCP to be able to show picture.

When receiving contents that has HDCP Encryption, the CV and SV output will not display image.

## Hardware Description

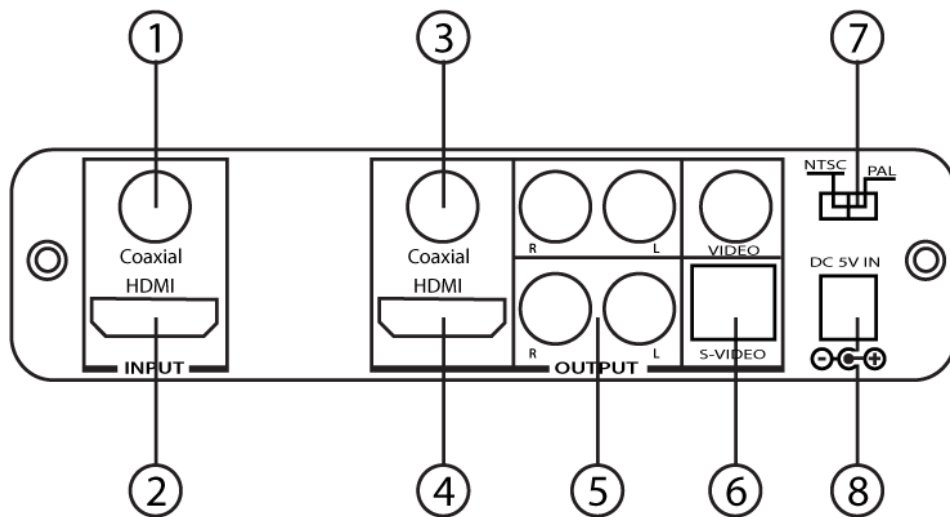
The following sections describe the hardware components.

### Front Panel



**1. Power LED:** The LED indicator will illuminate when the unit is powered on.

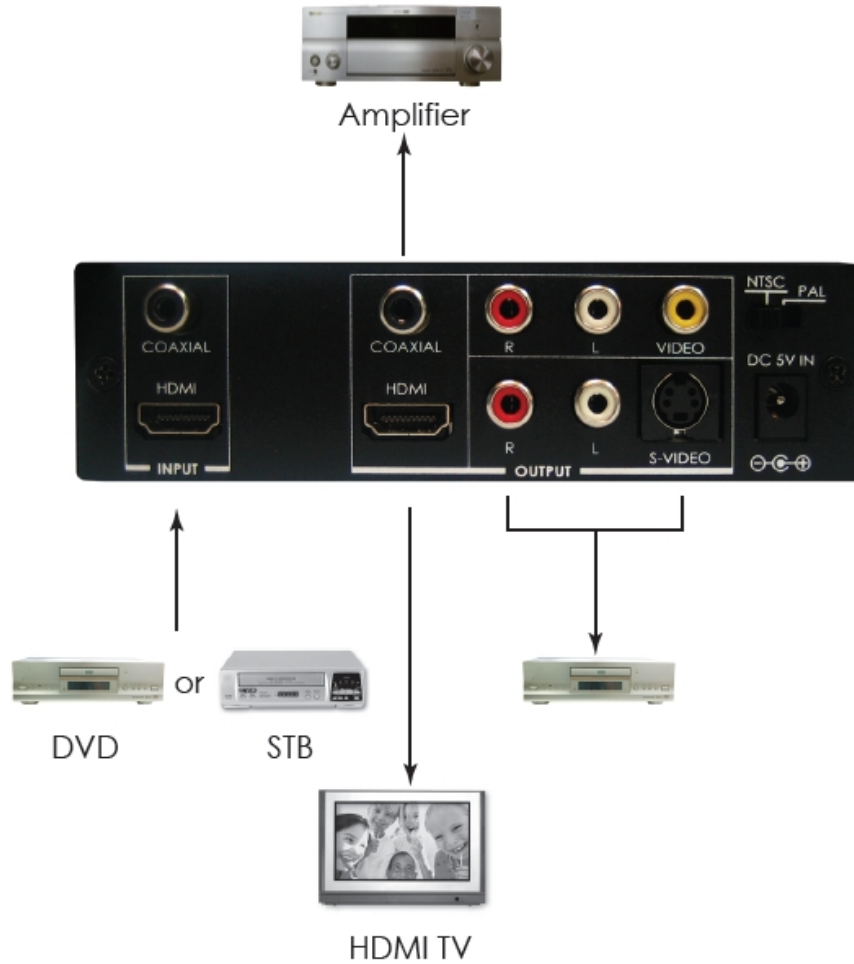
### Rear Panel



- 1. Coaxial Input:** Connect the digital audio input port to the Coaxial output port of your source equipment such as DVD player or Set-Top-Box.
- 2. HDMI Input:** Connect the HDMI input port to the HDMI output port of your source equipment such as DVD player or Set-Top-Box.
- 3. Coaxial Output:** Connect the digital audio output port to the input port of your digital audio equipment such as audio amplifier.
- 4. HDMI Bypass Output:** Connect the HDMI output port to the HDMI input port of your display.
- 5. L/R Output:** Connect the analog audio output port to speakers.

## Connection and Installation

- 6. Composite Video/S-Video:** Connect the Composite Video or S-Video port to the input port of your display.
- 7. TV System Switcher:** Select between NTSC and PAL system for output.
- 8. DC 5V:** Plug the 5VDC power supply into the unit and connect the adapter to the AC wall outlet



## Support Resolutions

### HD

480i60,p60
576i50,p50
720p50,p60
1080p24
1080i50,i60
1080p50,p60

Note: DVI source input does not support 480i & 576i.

### PC

640x480@60,72,75,85
720x400@70
800x600@56,60,72,75,85
1024x768@60,70,75,85
1152x864@70,75,85
1280x720@60cvt
1280x768@60RB,60
1280x800@60RB,60,75
1280x960@60,85
1280x1024@60,75,85
1366x768@60RB,60
1400x1050@60RB,60
1440x900@60RB,60,75
1600x900@60RB
1600x1200@60
1680x1050@60RB,60
1920x1200@60RB

## Audio Chart

Video/Audio Source	HDMI	DVI
	HDMI Embedded Audio	Coaxial Input
Audio Output		
HDMI Bypass	Yes	Yes (SR 44.1k, 48k, 96k)
Coaxial	Yes	Yes
Stereo L/Rx2	Yes (Audio source is LPCM 2CH)	No

## Specifications

<b>Input ports:</b>	1 x HDMI type A, 1 x Coaxial
<b>Output ports:</b>	1 x HDMI type A, 1 x Coaxial, 2 x Stereo R/L RCA jack, 1 x Composite-Video RCA jack, 1 x R/L 1 x S-Video, 1 x R/L
<b>Power Supply:</b>	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
<b>Dimensions (mm):</b>	141(W) x 127(D) x 38(H)
<b>Weight(g):</b>	530
<b>Chassis Material:</b>	Aluminium
<b>Silk Skin Color:</b>	Black
<b>Power Consumption:</b>	5.5W
<b>Operating Temperature:</b>	Operating from 0°C ~ 40°C / 32F ~ 104F
<b>Storage Temperature</b>	-20°C ~ 60°C
<b>Relative Humidity</b>	20 ~ 90% (non condensing)