



HDMI DOWNSCALE

Operation Manual



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1. Introduction

The 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.

2. Main 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 HDTV input of wide resolutions, from 480p to 1080p@60Hz (except 1080p@24Hz) and PC from VGA@60Hz to UXGA@60Hz.

Note: Sources' signal also need to disable 1080p@24Hz resolution in order to avoid image corruption.

- ⌘ Video and audio conversion / bypass scenarios:

| | |
|-----------------|---|
| 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 + L/R -> Output analog video / audio converted from HDMI |
| | SV + L/R -> 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 + L/R -> 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.
- 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.

3. Package Contents

1. HDMI to CV/SV Converter
2. 5V/2.6A DC power adaptor.
3. Operation manual.

4. Hardware Description

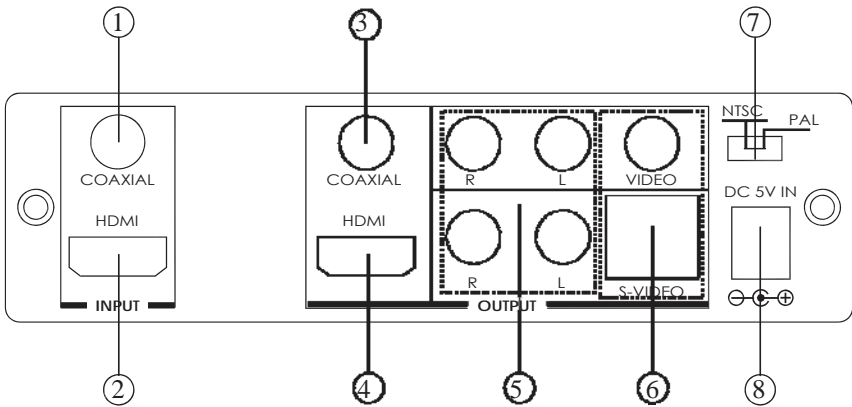
The following sections describe the hardware components.

4.1 Front Panel



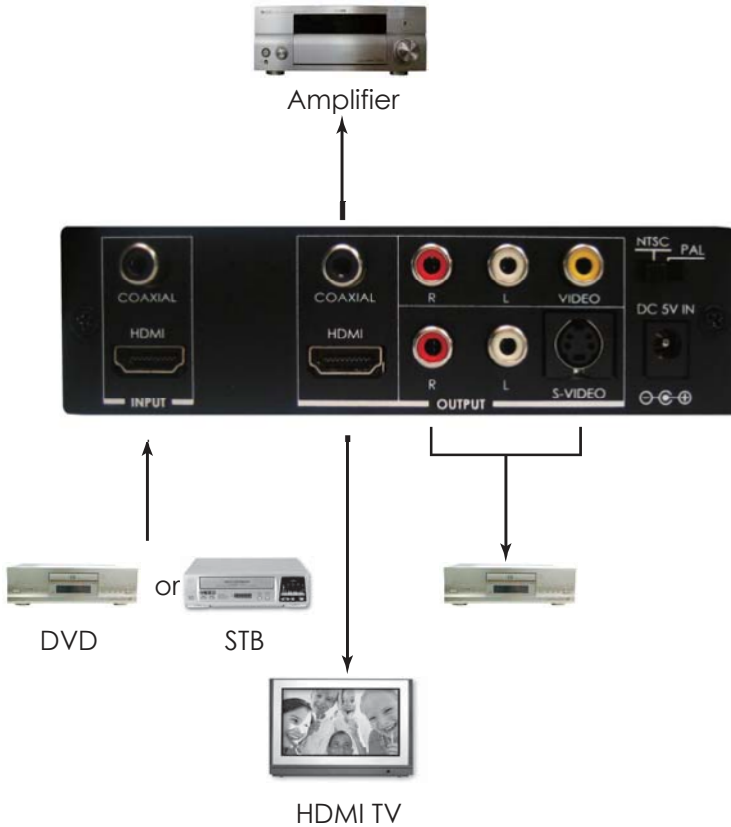
- ① Power LED: The LED indicator will illuminate when the unit is powered on.

4.2 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.
- 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 adaptor to AC wall outlet.

5. Connection and Installation



6. Specifications

| | |
|-----------------------|---|
| Input ports | 1 x HDMI type A, 1 x Coaxial |
| Output ports | 1 x HDMI type A, 1 x Coaxial, 2 x Stereo R/L RCA jack, 1 x Composite-Video RCA jack, 1 x S-Video mini-din |
| Power Supply | 5V/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| Dimensions (mm) | 141 (W) x 127 (D) x 38 (H) |
| Weight(g) | 510 |
| Chassis Material | Metal |
| Silk Skin Color | Black |
| Operating Temperature | Operating from 0°C ~ 40°C |

