

HDMI to Video CV/SV Downscaler - with HDMI pass-thru - ID# 663



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.

The converter will work in conjunction with a HDMI / DVI converter or adaptor cable.

The HDMI to CV/SV Converter has 3 video and audio conversion/bypass scenarios:

A) Both Video and Audio From HDMI Source:

- 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

B) Video From DVI Source and Audio From Coaxial Source:

- 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**

C) Video from DVI Source and Audio From Coaxial Source:

- 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**

NOTE ** Analog L/R audio output not available when audio input is Coaxial. Please connect analog audio direct from source to speakers / amp.

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 1080p460Hz (except 1080p@24Hz) and PC from VGA460Hz 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:

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.

- 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.

Hardware Description

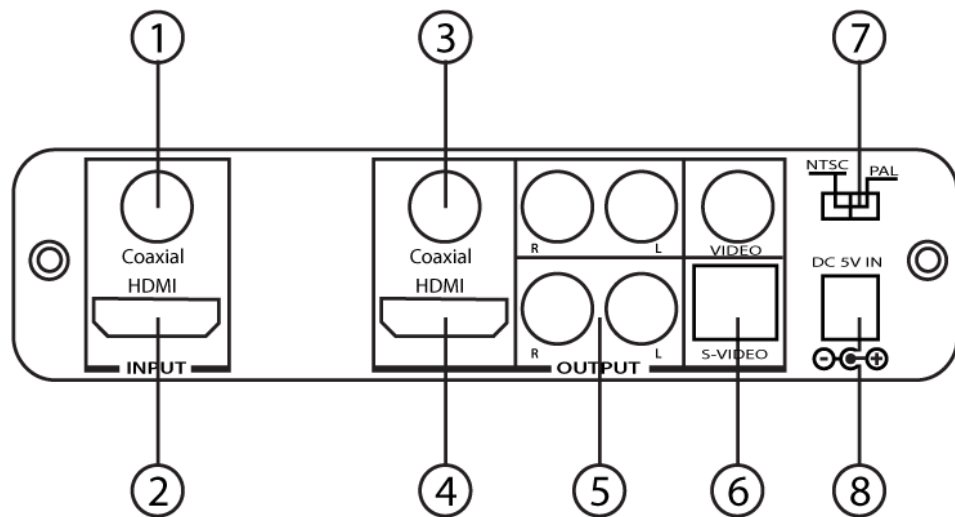
The following sections describe the hardware components.

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.

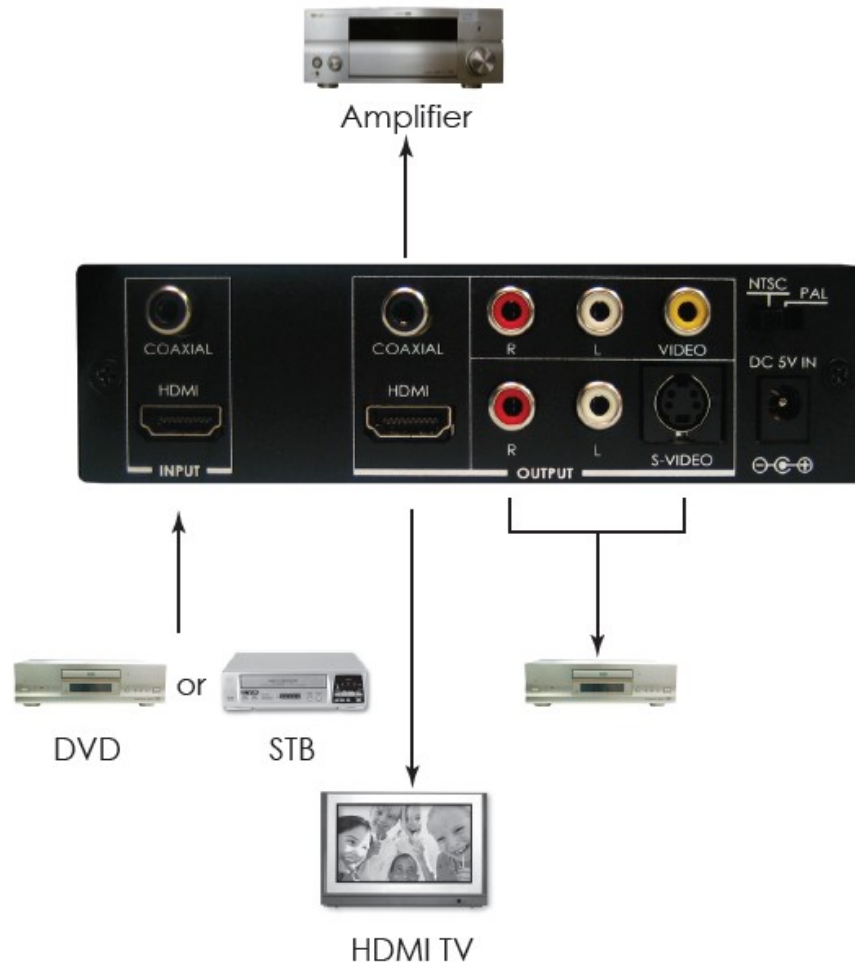
3. Coaxial Output: Connect the digital audio output port to the input port of your digital audio equipment such as audio amplifier.

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.

- 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

Connection and Installation



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