CV-CS2H

CV/SV to HDMI Converter with Audio Input

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

Version No	*Date*	*Summary of Change*
VR0	*20101201*	*Preliminary Release*

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1. Introduction

This is a Video to HDMI™ converter box that can convert CV/SV (NTSC or PAL or SECAM system) to HDMI resolutions of XGA to UXGA or HD resolutions of 480p to 1080p. With frame rate conversion feature that allows users to view DVD, VCR or video game sources on the HD monitor/TV this device has an On-Screen Display function that allows users to easily select the output resolution and the audio input, after which both the video and audio signal are combined into an HDMI signal so they can be output to a compatible display.

2. Applications

- CV/SV signal with audio to display on HD TV/monitor
- STB/Camcorder signal display on HD monitor/TV
- VCR signal display on HD monitor/TV

3. Package Contents

- CV/SV to HDMI Converter with Audio Input
- Power Adaptor
- Operation Manual

4. System Requirements

Input source equipments such as DVD/Video cassette player and output HD monitor/TV with connection cables.

5. Features

- Operates in NTSC 3.58 and PAL & SECAM system
- Can scale CV/SV to HDMI format
- Output resolution:
    - PC resolutions: XGA, SXGA, UXGA
    - Component resolutions: 480p/576p, 720p@50 or 60,1080p@50 or 60
- 3D (frame based) motion adaptive YNR/CNR noise reduction
- On-Screen Display
- Advance 3D motion adaptive de-interlace
- Automatic 2:2 & 3:2 film mode detection
- Play video games on your HD monitor/TV
- High-resolution output picture
- Plug & play- no drive software required
- Component resolution support 50 to 60 frame rate conversion only not 60 to 50
- PC resolution frame rate only supports 60Hz output

6. Specifications

Input port	1 x CV, 1 x SV, 1 x 3.5Ø Phone Jack
Output port	1 x HDMI
Output Resolution	PC: XGA/SXGA/UXGA HD: 480p/576p/720p@50/60 or 1080p@50/60
Power Supply	5VDC/1A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions	162.6 mm (W)×64.5 mm (D)×33.5 mm (H)
Weight	100 g
Chassis Material	Plastic
Silkscreen Color	Black
Operating Temperature	0˚C~40˚C / 32˚F ~ 104˚F
Storage temperature	-20˚C~60˚C / -4˚F ~ 140˚F
Relative Humidity	20~90% RH (no condensation)
Power Consumption	2.5 W

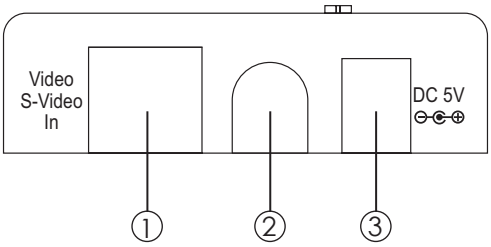
6.1 Audio Specification

Input Level / Frequency	Output Terminal	Output Sample Rate	Audio Impedance	Frequence Level	SNR	Crosstalk
2Vrms 1kHz	HDMI	48 KHz	54K ohm	-1.6 ±0.5dBFs	>80dB	<-80dB

7. Operation Controls and Functions

The following sections describe the hardware components of the unit.

7.1 Left side Panel

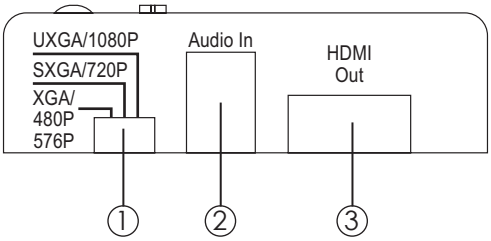


①. S-Video input: This slot is where you connect the input source equipment such as digital camcorder or PDAs with S-Video cable for input signal sending.

②. Composite (CV) input: This slot is where you connect the input source equipment such as personal media player or personal recorder with CV cable for input signal sending.

③. DC 5V In: This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.

7.2 Right side Panel

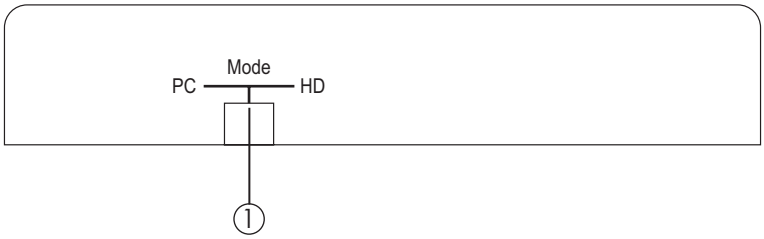


①. Output resolution switch: This slide switch allows you to set HDMI output Timing to PC resolution: XGA/SXGA/UXGA or HD: 480p/576p/720p@ 50 or 60/1080p@ 50 or 60. Simply switch the dip switch to left, middle or right and the output image will display your desire timing.

②. Audio In: This slot is to connect to audio source equipment with 3.5Ø phone jack for audio signal transmission.

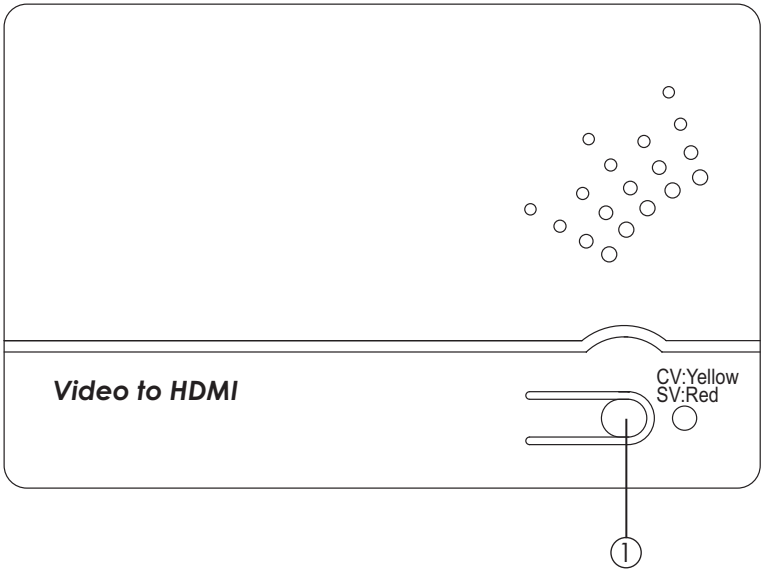
③. HDMI OUT: This slot is where you connect the output display monitor/TV with HDMI cable.

7.3 Front Panel



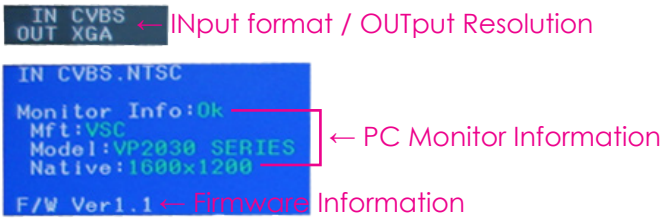
①. PC/HD switch: This slide switch allows you to select PC or component HD timing output. Simply slide the dip switch to left or right and the output mode will display your desire selection.

7.4 Top Panel



①. CV/SV SW & LED: Press this button to switch input source between composite or S-Video. The Led will illuminate in yellow when switch to composite input and red when switch to S-Video input.

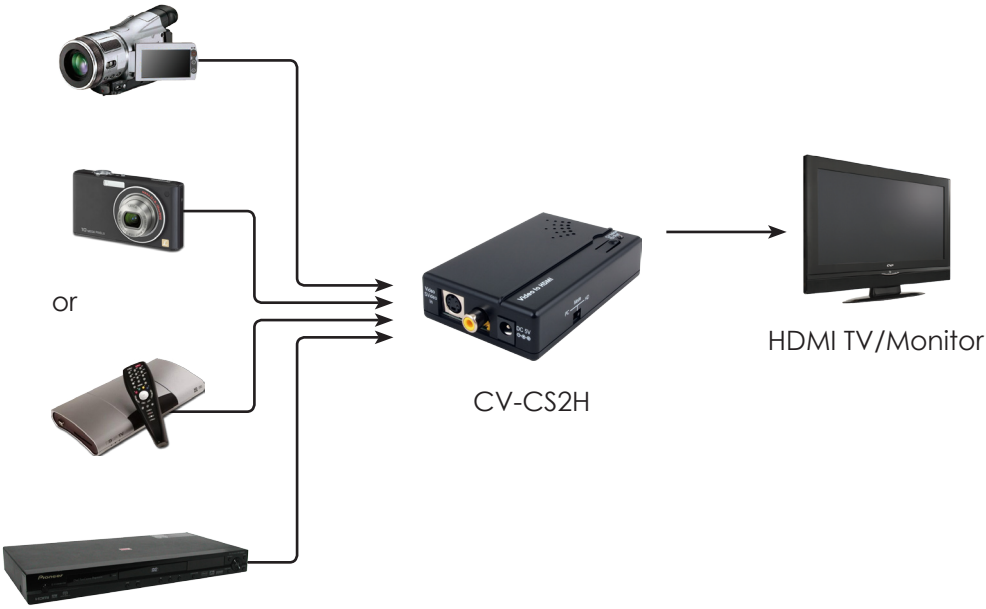
8. OSD



1. Press the top panel's button once to switch in between CV/SV. If input source is disconnected the OSD will show "No Signal".
2. Press the top panel's button for 3 second to bring up OSD manual.
3. When the device is under PC mode the OSD will display input format and output timing, source detection, PC monitor's EDID and firmware version as to above picture.
4. When the device is under HD mode the OSD will display input format and output timing, frame rate conversion selection, video system and firmware version as show in below picture.



9. Connection and Installation



Acronyms

A

Acronym	*Complete Term*
CV	Composite Video
HD	High Definition
NTSC	National Television System Committee
PAL	Phase Alternate Line
PC	Personal computer
STB	Set-Top-Box
SV	S-Video
UXGA	Ultra eXtended Graphics Array
SXGA	Super eXtended Graphics Array
XGA	Extended Graphics Array