

CM-398DI

CV/SV to DVI-I Converter

Operation Manual



CM-398DI

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• **Trademark Acknowledgments**

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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
VS0.1	20110428	Preliminary Release

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1. Introduction

The CV/SV to DVI-I Converter is a compact device that allows you to show content from Composite Video (CV) or S-Video (SV) sources on PC monitors or Component televisions. Compact and lightweight this easy to use device allows you to convert CV/SV (NTSC or PAL) formatted content to DVI-I (digital and analog) resolutions from XGA to UXGA or HD resolutions from 480p to 1080p and thanks to frame rate conversion you can view content from DVD/Blu-Ray players or game consoles on DVI monitors. With advanced 3D motion adaptive de-interlace that helps to eliminate jagged edges when displaying content on TV's, the CM-398DI CV/SV to DVI-I Converter is a useful tool for professionals that work with CV/SV sources and DVI displays.

2. Applications

2. Applications

- Display CV/SV signals on DVI monitors
- Show content from Set-Top-Boxes (STB) or Camcorders on DVI monitors

3. Package Contents

- CV/SV to DVI Converter
- Power Adaptor
- Operation Manual

4. System Requirements

To operate this system effectively the following equipment is needed: A source device, for example a DVD player or STB, output DVI monitor and connection cables.

5. Features

- Supports NTSC 3.58 and PAL
- High Quality Scaling Engine
- Output resolution:
 - PC: XGA, SXGA, UXGA
 - DVI: 480p/576p, 720p, 1080p@50/60
- 3D (frame based) motion adaptive YNR/CNR noise reduction (for Y/C video input)
- An intuitive On Screen Display
- Advanced 3D motion adaptive de-interlace
- Automatic 2:2 & 3:2 film mode detection
- Plug & play- no driver software required

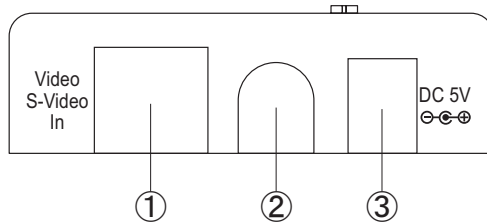
6. Specifications

Input port	1 x CV, 1 x SV
Output port	1 x DVI
Output Resolution	PC: XGA/SXGA/UXGA HD: 480p/576p/720p/1080p@50/ 60Hz
Power Supply	5V DC/1A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: $\pm 8\text{kV}$ (air-gap discharge) $\pm 4\text{kV}$ (contact discharge)
Dimensions (mm)	162.6 (W) x 164.5 (D) x 33.5 (H)
Weight(g)	100
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 (W)	2 (Max)

7. Operation Controls and Functions

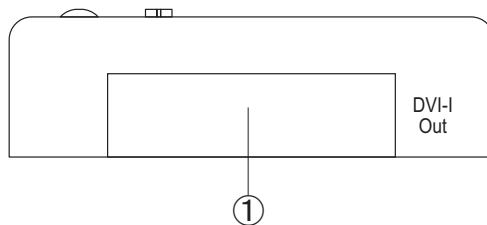
The following sections describe the hardware components of the unit.

7.1 Left side Panel



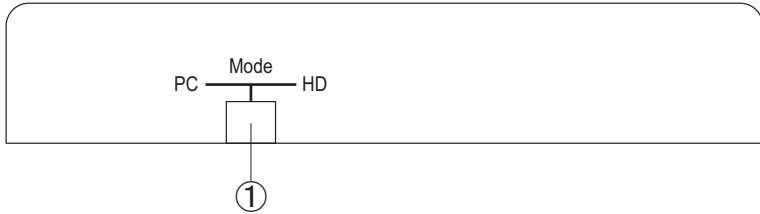
- ① S-Video input: This port is where you connect the S-Video source, such as a digital camcorder/camera to the converter with an S-Video cable in order to receive an input signal.
- ② Composite Video input: Using a Composite Video cable connect the source device, for example a camcorder to the converter in order to receive an input signal.
- ③ DC 5V In: This jack is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet.

7.2 Right side Panel



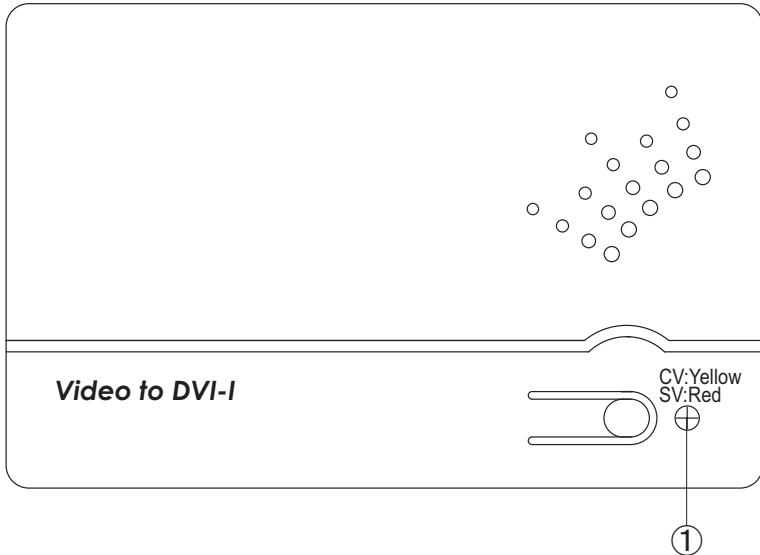
- ① DVI-I OUT: This port allows you to connect to a DVI monitor using a DVI cable.

7.3 Front Panel



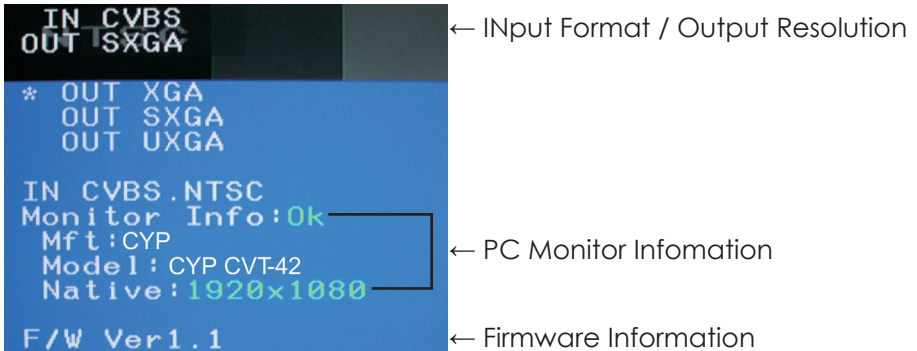
- ① PC/HD switch: This switch allows you to select either PC or Component HD output. Simply slide the switch to your desired format and it will be shown on the output display.

7.4 Top Panel

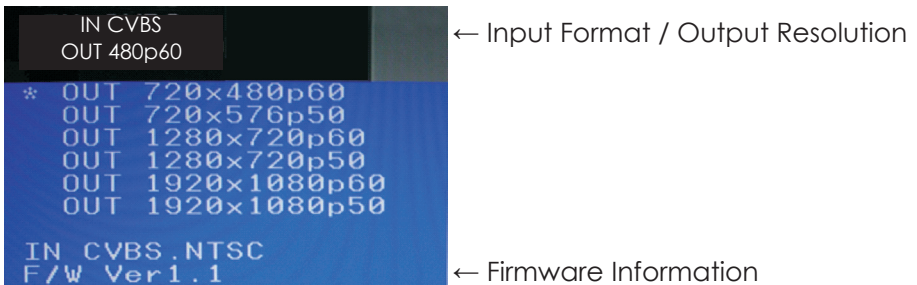


- ① CV/SV SW & LED: Press this button to switch the input source between Composite or S-Video. The LED will turn yellow when switched to CV input and red when switched to SV input. Press and hold this button for three seconds to bring up the OSD menu.

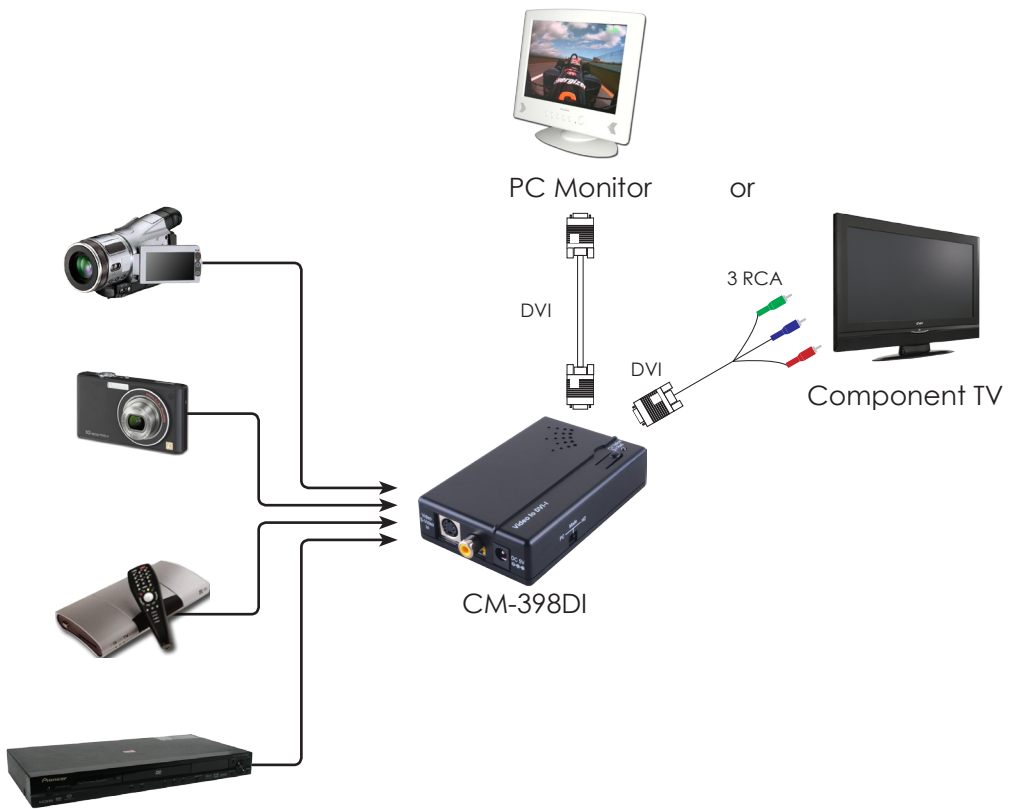
8. OSD



1. Press the select input button once to switch between CV/SV input. If the source is disconnected the OSD will show “No Signal”.
2. Enter the OSD menu.
3. When the device is in PC mode the OSD will display the input format, output timing, user selectable output timings, the detected source as well as the PC monitor's EDID and firmware version as shown in the above screen capture.
4. When in HD mode the OSD will display the input format, output timing, frame rate options, video system and the firmware version as shown in the below screen capture.
5. Press the Select Input button to cycle through the different timings until you reach your desired timing.



9. Connection and installation





Acronyms

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
SXGA	Super eXtended Graphics Array
VGA	Video Graphics Array
XGA	Extended Graphics Array
UXGA	Ultra eXtended Graphic Array



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