



# CM-398M

CV/SV to PC/HD Scaler Box



**Operation Manual**



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## SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, 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 any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.
- Please completely disconnect the power when the unit is not in use to avoid wasting electricity.

## VERSION HISTORY

REV.	DATE	SUMMARY OF CHANGE
V1	20100923	Preliminary release
V2	20190723	Add Package Contents

## CONTENTS

<b>1. Introduction</b> .....	<b>1</b>
<b>2. Applications</b> .....	<b>1</b>
<b>3. Package Contents</b> .....	<b>1</b>
<b>4. System Requirements</b> .....	<b>1</b>
<b>5. Features</b> .....	<b>2</b>
<b>6. Operation Controls and Functions</b> .....	<b>3</b>
6.1 Top Panel.....	3
6.2 Front Panel.....	3
6.3 Left Panel .....	4
6.4 Right Panel.....	4
<b>7. Connection Diagram</b> .....	<b>5</b>
<b>8. Specifications</b> .....	<b>6</b>
8.1 Technical Specifications .....	6
8.2 Support Timing Chart.....	7
<b>9. OSD</b> .....	<b>8</b>
<b>10. Acronyms</b> .....	<b>9</b>





## 1. INTRODUCTION

This economical Video to PC converter box that can convert CV/SV (NTSC or PAL system) to supported PC resolution like XGA to UXGA or HD resolutions of 480p to 1080p. With frame rate conversion feature that allows users to DVD, VCR or Game sources on the PC monitor, this device also has an On-Screen Display that allows users to easily select their desired output resolution.

## 2. APPLICATIONS

- CV/SV signal display on VGA/PC monitor or TV
- STB/Camcorder signal display on PC monitor or TV
- DVD signal display on PC monitor or TV

## 3. PACKAGE CONTENTS

- Video to PC/HD Scaler Box
- D-Sub 15pin to 3 RCA adaptor cable
- Power Adaptor
- Operation Manual

## 4. SYSTEM REQUIREMENTS

Input source equipments such as DVD/Video cassette player and output PC/VGA monitor component TV (output component TV needs D-Sub-15 to 3RCA cable adaptor) display with connection cables.

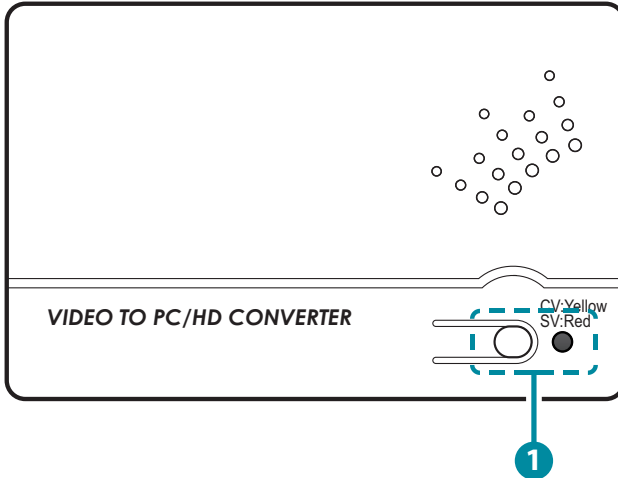
## 5. FEATURES

- Operates in NTSC 3.58MHz and PAL system
- Can scale CV/SV to PC or Component format
- Output resolution:
  - **PC resolutions:** XGA, SXGA, UXGA
  - **Component resolutions:** 480p/576p, 720p, 1080p
  - 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
- 50 to 60 Hz frame rate conversion ensures glitch-free display
- Play video games on your VGA monitors
- High-resolution output picture
- Plug & play- no drive software required

## 6. OPERATION CONTROLS AND FUNCTIONS

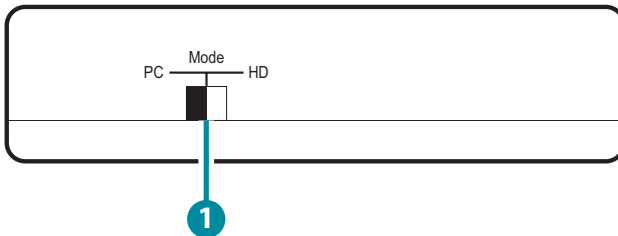
The following sections describe the hardware components of the unit.

### 6.1 Top Panel



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

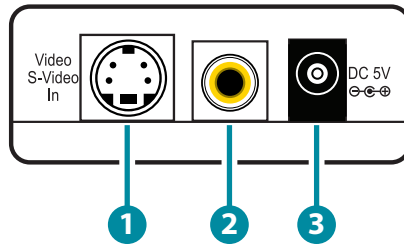
### 6.2 Front Panel



- 1 PC/HD switch:** Press this button to switch input source between com posite or S-Video. The Led will illuminate in yellow when switch to composite input and red when switch to S-Video input.

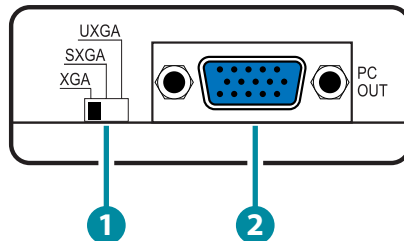


## 6.3 Left Panel



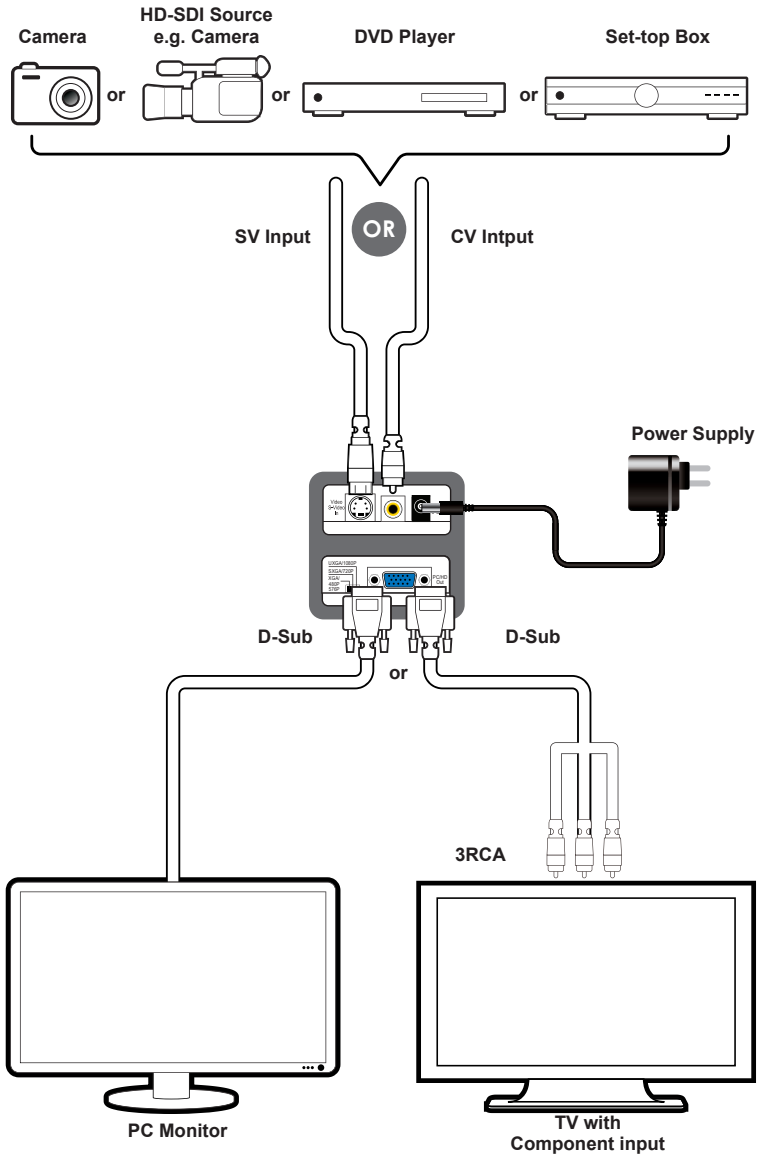
- 1 **S-Video input:** This slot is where you connect the input source equipment such as digital camcorder or PDAs with S-Video cable for input signal sending.
- 2 **Composite (CV) input:** This slot is where you connect the input source equipment such as personal media player or personal recorder with RCA 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.

## 6.4 Right Panel



- 1 **Output resolution switch:** This dip switch allows you to set PC/HD output Timing to PC resolution: XGA/SXGA/UXGA or Component resolution: 480p/576p/720p/1080p. Simply push the dip switch to left, middle or right and the output image will display your desire timing. For PC/ Composite timing selection please refer to Section 7.3 Front Panel.
- 2 **PC/HD OUT:** This slot is where you connect the output display monitor with D-Sub 15pin cable for image display. When connecting component to TV, using D-Sub 15pin to 3RCA adaptor is required.

## 7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

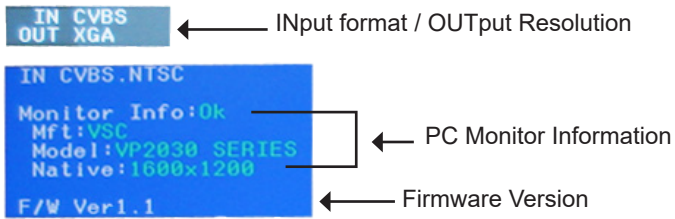
### 8.1 Technical Specifications

<b>Input port</b>	1 x CV, 1 x SV
<b>Output port</b>	1 x VGA (Component out needs D-Sub 15 to 3RCA adaptor)
<b>Output Resolution</b>	PC: XGA/SXGA/UXGA Component: 480p/576p/720p/1080p
<b>Power Supply</b>	5VDC/1A (US/EU standards, CE/FCC/UL certified)
<b>ESD Protection (HBM)</b>	±8kV (Air Discharge) ±4kV (Contact Discharge)
<b>Dimensions (mm)</b>	162.6(W) x 64.5(D) x 33.5(H)
<b>Weight(g)</b>	88
<b>Chassis Material</b>	Plastic
<b>Silkscreen Color</b>	Black
<b>Operating Temperature</b>	0°C~40°C / 32°F ~ 104°F
<b>Storage temperature</b>	-20°C~60°C / -4°F ~ 140°F
<b>Relative Humidity</b>	20~90% RH (no condensation)
<b>Power Consumption (W)</b>	2.5W(Max)

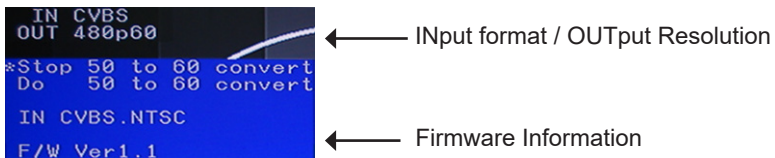
## 8.2 Support Timing Chart

Input AV System	Output Resolution		
	PC	HD Resolution	
		Component (50Hz CANNOT convert to 60Hz)	Component (50Hz CAN convert to 60Hz)
NTSC(60Hz)	XGA/ SXGA/ UXGA @60	480p60/720p60/1080p60	
PAL(50Hz)		576p50/720p50/ 1080p50	480p60/720p60/ 1080p60

## 9. OSD



- 1 Press the top panel's button once to switch in between CV/ SV. When input source is disconnected the OSD will show "No Signal".
- 2 Press the top panel's button for 3 second to bring up OSD menu.
- 3 When the device is under PC mode the OSD will display input format and output timing, source detection, PC monitor's information 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.



## 10. ACRONYMS

<b>ACRONYM</b>	<b>COMPLETE TERM</b>
<b>CV</b>	Composite Video
<b>HD</b>	High Definition
<b>NTSC</b>	National Television System Committee
<b>PAL</b>	Phase Alternate Line
<b>PC</b>	Personal computer
<b>STB</b>	Set-Top-Box
<b>SV</b>	S-Video
<b>UXGA</b>	Super eXtended Graphics Array
<b>VGA</b>	Video Graphics Array
<b>XGA</b>	Extended Graphics Array





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