

CVMDP-1080P

CV/SV to Full HD Mini DisplayPort Scaler

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**

<i>Version No</i>	<i>Date</i>	<i>Summary of Change</i>
<i>V1</i>	<i>20091029</i>	<i>Preliminary Release</i>

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1. Introduction

This scaler box is designed to display your Composite video/S-Video images on the Mini DisplayPort with better viewing resolutions. It can upscale any Composite video/S-video source into Mini-Display port output with a wide range of resolutions. Additionally, this device can also output high quality audio allowing everyone to enjoy enriching HD images and high quality sound.

2. Applications

- Composite video/S-Video to Mini DisplayPort or DisplayPort signal conversion
- Scale a Composite video/S-Video signal into Mini Display Port format.

3. Package Contents

- CV/SV to Full HD Mini DisplayPort Scaler Box
- Power Adaptor
- User Manual

4. System Requirements

An Input Composite video/S-video device with a Mini-Display Port and connection cables.

5. Features

- Scales up Composite video or S-Video to HDTV 1080p format
- Automatic lipsync (audio delay) ensures audio video synchronization
- Input video systems NTSC/PAL
- Supports 8bits on the Mini-DisplayPort and can output a signal up to 6meters away.
- HQE (High Quality Image Enhancer) function
- Digital Noise Reduction- Minimizes picture noise, reproducing realistic, high quality images.
- Block Noise Reduction- Minimizes all MPEG noise, dramatically improving the quality of HDTV broadcasts.
- MPEG Noise Reduction- Reduces mosquito noise in MPEG video images without losing any detail.
- Motion adaptive 3D Y/C separation comb filter
- 3D (frame based) motion adaptive noise reduction
- Advanced 3D motion adaptive de-interlace
- Automatic 2:2/3:2 film mode detection
- Composite video / S-Video input selection button
- Automatic resolution selection and individual resolution selection button
- Mini DisplayPort output with RGB color space design

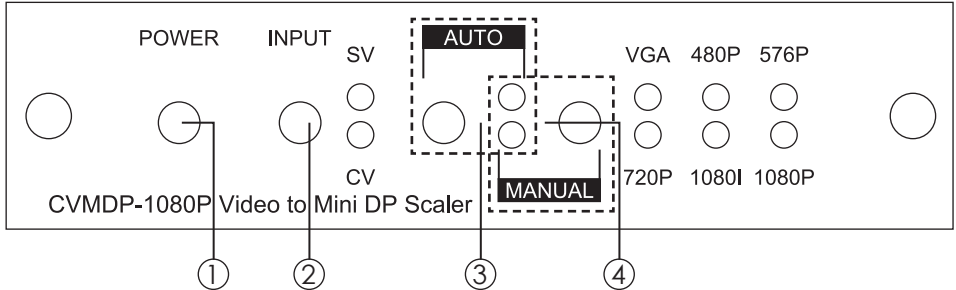
6. Specifications

Input Ports	Composite video/S-Video, Audio R/L RCA jack
Output Ports	Mini DisplayPort
Output Resolution	VGA, 480p, 576p, 720p, 1080i and 1080p@50/60
Input signal levels	Video at 1 Vp-p, 75Ω Y: 1.0 Vp-p(75Ω) C: 0.286 Vp-p(75Ω) Audio R/L: 0.5Vrms
Video System	NTSC, PAL
Audio Sampling Rate	48KHz
Power Supply	5VDC/2.6A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	100(W) x157(D) x 25(H)
Weight(g)	332
Chassis Material	Aluminum
Silkscreen Color	Black
Power Consumption	5W (max)
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)

7. Operation Controls and Functions

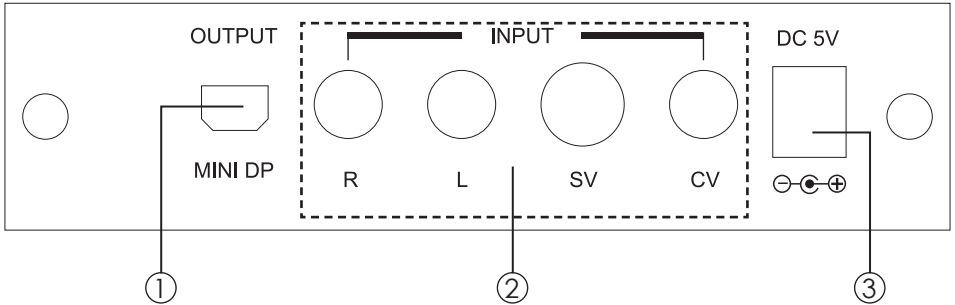
The following sections describe the hardware components of the unit.

7.1 Front Panel



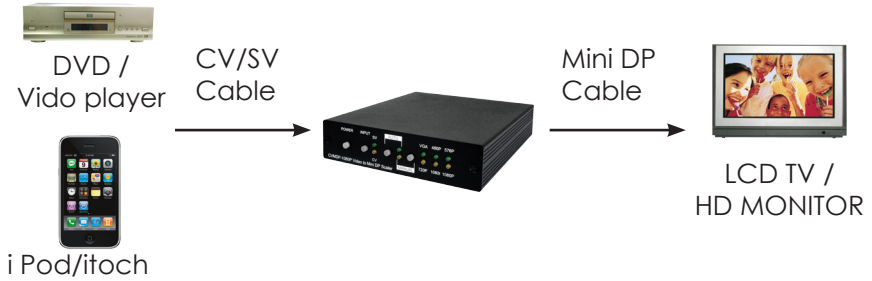
- ① POWER button: Press this button once to power on the unit, press again to power off.
- ② INPUT selection bottom - Yellow LED turns on when composite video is selected.
- Green LED lights up when S-Video video is selected.
This device has a memory function that records your settings from the previous session. The factory default is on CV input.
- ③ AUTO selection button- Pressing this button sets the device in Auto mode so it automatically detects the display's EDID resolution, when this happens the resolution indicator will turn on.
Note: For Apple and Dell monitors when selecting AUTO mode the output mode will be VGA.
- ④ Manual selection button- Selecting the Manual button can change the display ports resolution from VGA to 1080p.

7.2 Rear Panel



- ① MINI DO output- This slot connects with a display monitor that incorporates a mini DisplayPort and includes connection cables.
Note: 1. This scaler does not have an overscan function, however it is adjustable through a TV.
2. Audio sound will not perform if no input image.
- ② SV/CV/RL INPUT – These slots are to connect to source input's S-Video/ Composite video and R/L with S-Video/ Composite video cables.
- ③ DC 5V – This slot is to connect the 5V DC power adaptor included in the package into the unit and connect the adaptor to an AC wall outlet.

8. Connection and Installation



9. Output Resolution Chart

Mini DisplayPort output resolution		
VGA	640 X 480	60HZ
480P	720 X 480	60HZ
576P	720 X 576	50HZ
720P	1280 X 720	60HZ / 50HZ
1080I	1920 X 1080	60HZ / 50HZ
1080P	1920 X 1080	60HZ / 50HZ



Acronyms

Acronym	Complete Term
CV	Composite video
EDID	Extended Display Identification Data
SV	S-Video
HDTV	High-Definition Television
NTSC	National Television System Committee
PAL	Phase Alternating Line
HQE	High Quality Image enhancer
3D	Three-Dimensional



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