

CP-300VD VGA to DVI Scaler



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.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VR0	13/04/11	Preliminary Release
VR1	25/05/12	Add Output timings
VS1	25/01/13	Updated format/diagrams



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1. INTRODUCTION

The VGA to DVI Scaler is designed to convert a VGA signal to DVI so that it can be displayed on a DVI monitor without loss of image quality. It can upscale VGA input sources to DVI output for a widerange of PC resolutions, from VGA to WUXGA. The Scaler has a variety of output resolutions and adjustment for the best picture quality. Also, the built-in OSD function makes it easy for the user to view or select the desired resolution.

2. APPLICATIONS

- Upscale or downscale PC resolutions
- Convert an analog RGB signal into digital RGB DVI signal
- Integrate into a wider digital system

3. PACKAGE CONTENTS

- 1×VGA to DVI Scaler
- 1×5V DC Power Adaptor
- · Operation Manual

4. SYSTEM REQUIREMENTS

Source equipment such as PC or laptop and output to DVI display with DVI connection cable.

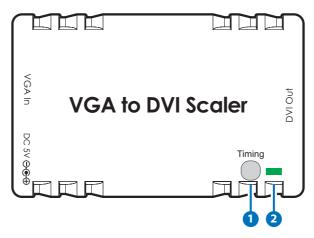
5. FEATURES

- Supports PC resolution bypass from VGA to WUXGA@60 Hz (RB)
- Supports bypass, manual and TV native modes
- Supports auto-detection and hot plugging



6. OPERATION CONTROLS AND FUNCTIONS

6.1 Top Panel



1 Timing Button

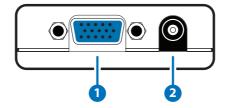
Press this button to switch the EDID setting for bypass, manual or native mode. The OSD will display both input and output resolutions on the top left of the output display. Please refer to Section 6.4 for details.

2 Power LED

This LED will illuminate in green when the unit is connected to a power supply.

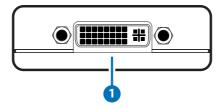


6.2 Left Panel



- 1 VGA In
 - Connect to a source device such as a PC or laptop with a VGA cable.
- 2 DC 5V Connect the 5V DC power supply into the unit and plug the adaptor into an AC wall outlet.

6.3 Right Panel



1 DVI Out
Connect to a DVI display, monitor or larger video system.



6.4 OSD Table

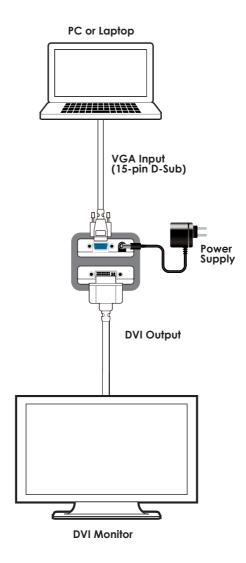
Input	Input Refresh Rate (Hz)	Output Refresh Rate (Hz)		
Resolution		Manual Mode	Native Mode	Bypass Mode
640×350	85	-	-	85
640×400	85	-	-	85
640×480	60, 72, 75, 85	60	60	60, 72, 75, 85
800×600	56, 60, 72, 75, 85	-	-	56, 60, 72, 75, 85
848×480	60	-	-	60
1024×768	60, 70, 75, 85	-	-	60, 70, 75, 85
1152×864	75	-	-	75
1280×720	60	60	60	60
1280×768	60, 75, 85	-	-	60, 75, 85
1280×800	60, 75, 85	60	60	60, 75, 85
1280×960	60, 85	-	-	60, 85
1280×1024	60, 75, 85	-	-	60, 75, 85
1360×768	60	60	60	60
1366×768	60	60	60	60
1400×1050	60	-	-	60
1440×900	60, 75, 85	-	-	60, 75, 85
1600×1200	60	-	_	60
1680×1050	60	-	-	60
1920×1080	60	60	60	60
1920×1200 (RB)	60	60	60	60

Note:

- 1366×768@60 & 1360×768@60 will output 1366×768@60; 1400×1050@60 & 1680×1050@60 will output 1400×1050@60.
- Both Manual & Native modes will only output an image when the input source supports a 60Hz refresh rate.
- When in Manual & Native mode's non-supported resolutions the output will automatically switch to bypass mode in order to ensure that an image is displayed.



7. CONNECTION DIAGRAM





8. SPECIFICATIONS

 Input Port
 1×VGA

 Output Port
 1×DVI

Output Timings 640×480, 1280×720, 1280×800, 1366×768,

1920×1080, 1920×1200RB

Power Supply 5 V DC / 1 A linear power adaptor (US/EU

standards, CE/FCC/UL certified)

ESD Protection Human body model:

± 8kV (air-gap discharge)

± 6kV (contact discharge)

Dimensions 110 mm (W)×62 mm (D)×20 mm (H)

Weight 76 g
Chassis Material Plastic
Silkscreen Color Black

Operating Temperature $0 \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C}$ Storage Temperature $-20 \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C} \,^{\circ}\text{C}$ Relative Humidity $20 \,^{\circ}\text{P} \,^{\circ}\text{RH}$ (non-condensing)

Power Consumption 2.8 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
DVI	Digital Visual Interface
EDID	Extended Display Identification Data
OSD	On Screen Display
VGA	Video Graphics Array

