



CP-304

VGA to HDMI Video 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	22/01/14	Preliminary release

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1. INTRODUCTION

The VGA to HDMI Video Scaler Box is designed to upscale analog video from PC input source to digital HDMI output of wide-range HD/PC resolutions up to 1080p/WUXGA. Besides video scaling, the device can convert analog stereo audio input to digital format and embed it to HDMI output as 2-CH LPCM. This unit has a comprehensive resolution button that allows user to select a variety of output resolutions and adjust for best picture quality.

2. APPLICATIONS

- Analog to Digital video signal conversion
- Displaying low resolution video on High-Definition display

3. PACKAGE CONTENTS

- VGA to HDMI Video Scaler
- 5V/2.6A Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

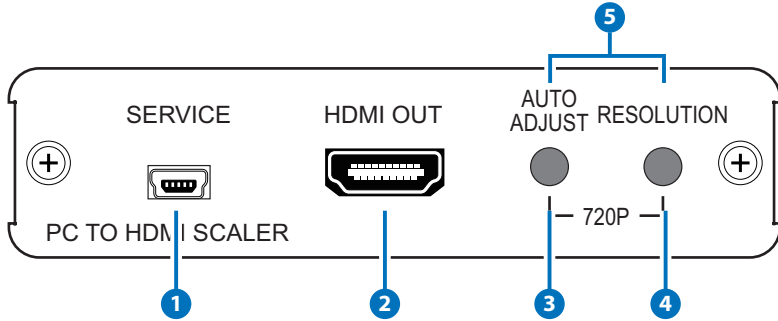
Input source equipment such as PC/Laptop or DVD Player and output display with HDTV.

5. FEATURES

- HDMI, and DVI 1.0 compliant
- Scales any PC resolutions to HD (480i~1080p)/PC (VGA~WUXGA) resolutions
- Automatically detect the factory setting of the connected display and output the corresponding resolutions and refresh rate, when the NATIVE output is selected
- Support high resolution output (See section 8. Specification for reference):
- PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA.
- SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
- Supports stereo analog input with PC video to HDMI output

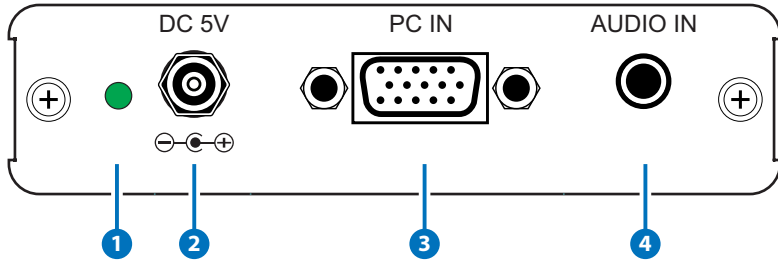
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



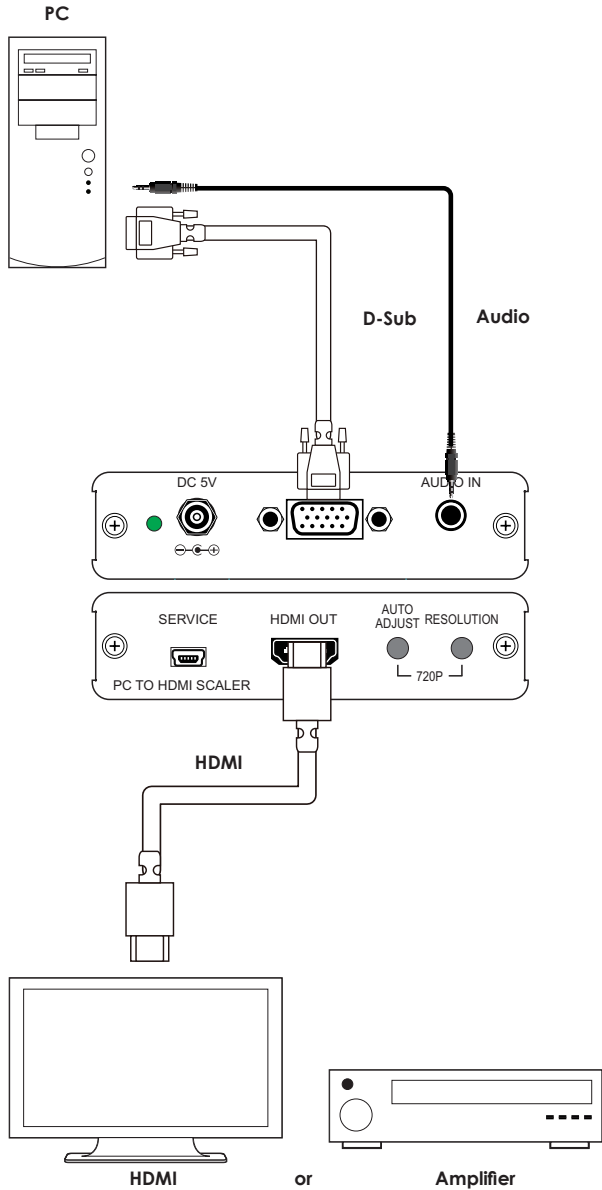
- 1 SERVICE:** This slot is to connect with mini USB B type cable for firmware update only.
- 2 HDMI OUT:** Connect the HDMI output port to the HDMI input port of your display such like HDTV.
- 3 AUTO ADJUST:** When the display is not fit into the screen, press to auto adjust the image position.
- 4 RESOLUTION:** Press this button sequentially to select required output resolution.
- 5 720P60:** Press these two buttons together to switch output to 720p instantly.

6.2 Rear Panel



- 1 LED:** Once the device is connected with power supply the LED will illuminate and the device will switch to ON automatically.
- 2 DC 5V:** Plug the DC power supply into the unit and connect the adaptor to AC wall outlet.
- 3 PC IN:** Connect the PC input D-Sub 15-pin port to the D-Sub output port of your source equipment such as PC/Laptop/Player.
- 4 AUDIO IN:** Connect the 3.5mm phone jack input port to the analog audio output port of your source equipment.

7. CONNECTION DIAGRAM





8. SPECIFICATIONS

Input Ports	1 x VGA, 1 x 3.5mm phone jack
Output Port	1 x HDMI
Supports Input Resolution	Up to WUXGA & 1920x1200@60RB
Supports Output Resolution	Up to WUXGA & 1080p
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	102(W) x 102(D) x 25(H)/Jacks Excluded 102(W) x 111(D) x 25(H)/Jacks Included
Weight(g)	244
Chassis Material	Aluminum
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 (non-condensing)
Power Consumption	4.6w

PC Input Resolution
VGA640*480 @60/72/75Hz
SVGA800*600 @56/60/72/75Hz
XGA1024*768 @60/70/75Hz
XGA+1152*864 @75Hz
1280*720 @60Hz
1280*768 @60RB/60Hz
1280*800 @60RB/60Hz
1280*960 @60Hz
1280*1024 @60/75Hz
1360*768 @60Hz
SXGA1400*1050 @60Hz
WXGA1440*900 @60Hz

UXGA1600*1200 @60Hz
WSXGA1680*1050 @60Hz
1920*1080 @60Hz
1920*1200RB @60Hz

HDMI output Resolution
Native
640*480@60Hz
800*600@60Hz
1024*768@60Hz
1280*1024@60Hz
1600*1200@60Hz
1366*768@60Hz
1680*1050@60Hz
1920*1200@60HzRB
1280*800@60Hz
1440*900@60Hz
1400*1050@60Hz
1600*900@60Hz
480i@60Hz
480p@60Hz
720p@60Hz
1080i@60Hz
1080p@60Hz
576i@50Hz
576p@50Hz
720p@50Hz
1080i@50Hz
1080p@50Hz



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