



SY-P290

PC/DVI to HDMI Converter

OPERATION MANUAL

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Version 1.1

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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	SUMMARY OF CHANGE
v2.00	17/07/2019	Updated format/diagrams

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1. INTRODUCTION

The SY-P290 is designed to convert and scale Digital or Analogue RGBHV or YUV to HDMI for improved viewing. This unit offers a wide selection of output resolutions/format, colour space and adjustment to obtain the best picture quality.

2. APPLICATIONS

- /// Individual home use
- /// Classroom presentation
- /// Meeting demonstration
- /// Gaming entertainment

3. PACKAGE CONTENTS

- /// HD/PC/DVI/HDMI to HDMI/DVI Scaler Box
- /// Power adaptor
- /// Operation Manual

4. SYSTEM REQUIREMENTS

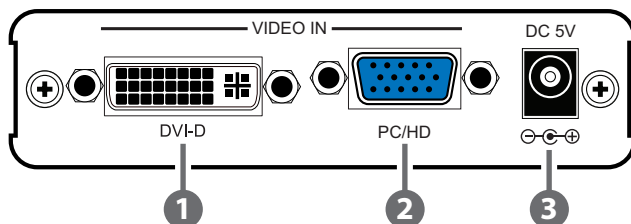
- /// PC/DVD/Blu-Ray and LCD TV/Monitor
- /// D-SUB/ 3RCA to D-SUB, DVI/HDMI to DVI-D cable for linking source input & image output to TV
- /// Coaxial or audio phone jack cable for linking the digital or analogue audio sounds

5. FEATURES

- /// v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant
- /// PC/DVI to HDMI Converter
- /// Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.
- /// Audio Support: Input - Analogue stereo & Coax; PCM Stereo, DTS & Dolby Digital; Output - Follows Input
- /// Scale analogue RGBHV/YUV and/or DVI/HDMI resolutions to XGA/UXGA/720p/1080p
- /// Direct push button controls for Audio, Video & Timing

6. OPERATION CONTROLS AND FUNCTIONS

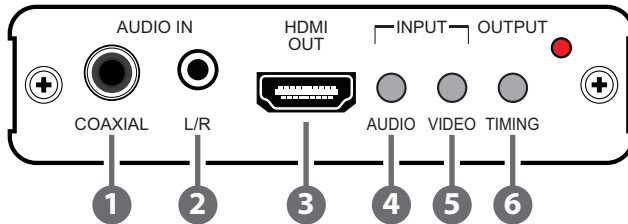
6.1 Front Panel



- 1 DVI-D/HDMI:** Connect the PC input DVI (29 pin) port to the DVI-D/HDMI output port of your HDMI source equipment such like PC.
 - Resolution: VGA~ WUXGA ; 480p~1080p50/60
 - Note: DVI-D input can only take Digital signal.
 - HDMI input 12bit, output 8 bit only.
- 1 PC/HD:** Connect the PC input D-Sub (15-pin) port to the D-Sub output port of your source equipment such like PC or a D-Sub to 3RCA to your source equipment like DVD player.
 - PC Resolution: VGA~ WUXGA
 - Component Resolution: 480i~1080i, 1080P 50/60
- 1 Power:** Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet.

Note: Output timing 1080p 50Hz may not be supported by some TVs with input 576i/p@50, 720p50 and 1080i50.

6.2 Rear Panel

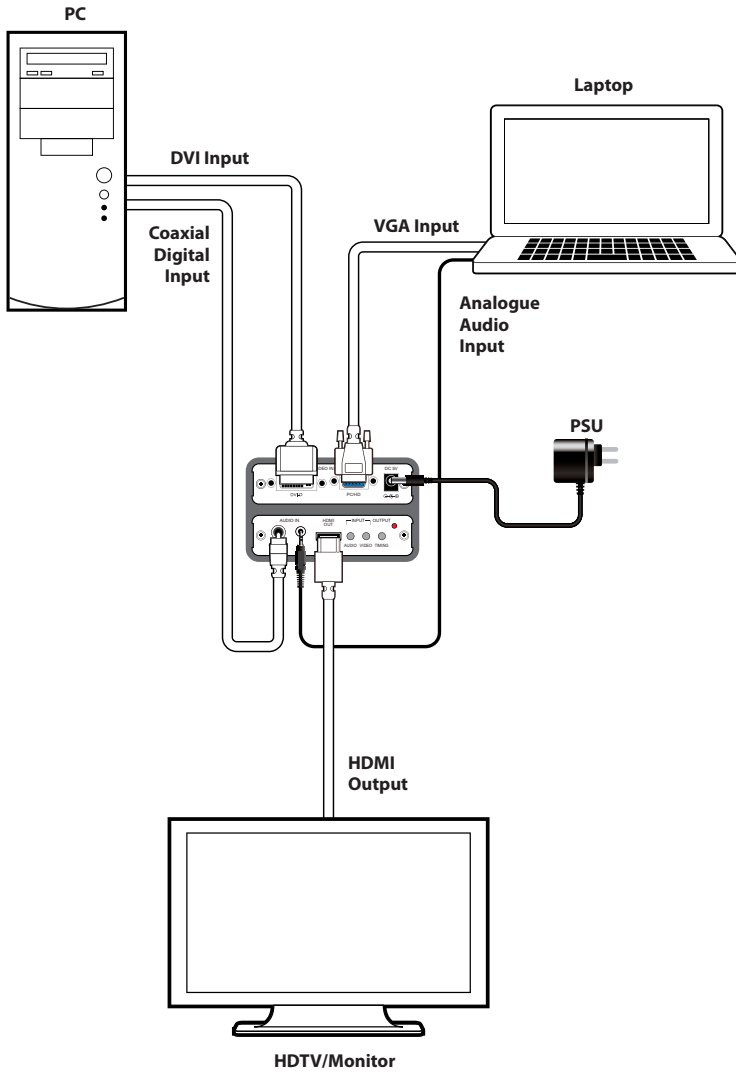


- ❶ **Coaxial:** Connect the coaxial audio cable from source device.
- ❷ **L/R:** Connect the L/R mini-jack from the source device.
- ❸ **HDMI out:** Connect the HDMI cable to LCD TV or Monitor.
- ❹ **Audio:** Input audio switching button for selecting coaxial or L/R audio signal. Simply push the button and the selection menu will display on the TV.
- ❺ **Video:** Input video switching button for selecting DVI or PC/HD video signal. Simply push the button and the selection menu will display on the TV.
- ❻ **Output Timing:** Output resolution selectable on 720p/1080p/XGA/UXGA. Simply push the button and the selection menu will display on the TV.

Note:

- A. Only when the HDMI signal is send the selection of audio under HDMI will appear on the display and the audio will support 2 CH PCM.
- B. By pushing both Audio & Video buttons the output will switch to XGA
- C. By pushing both Audio & Timing buttons the output will switch to 720p.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Input ports	1 x PC 1 x DVI-D 1 x Coaxial/Audio 1 x L/R Audio
Output port	1 x HDMI
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	160(D) x 102(W) x 25(H)
Weight(g)	332
Chassis Material	Aluminum
Silkscreen Colour	Silver
Operating Temperature	0 °C ~ 40 °C
Power Consumption	3.5W

8.2 Supported Resolutions

Input Resolution	Vertical Rate	Output Resolution/Vertical Rate
VGA	60Hz	UXGA/60Hz XGA/60Hz 720P/60Hz 1080P/60Hz
SVGA		
XGA		
SXGA		
WXGA		
UXGA		
WSXGA		
WUXGA		
480i/480p		
1080i		
1080p		
576i/576p	50Hz	UXGA/50Hz (note 1)
720p		XGA/50Hz (note 1)
1080i		720P/50Hz
1080p		1080p/50Hz (note 2)

Note 1 : This scaler does not support 50/60Hz frame rate conversion; therefore 50Hz PC resolutions may not be compatible with all displays.

Note 2 : The timing of 1080p 50Hz output signal is very critical; therefore it may not be compatible with all displays.

9. ACRONYMS

ACRONYM	COMPLETE TERM
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
USB	Universal Serial Bus
VGA	Video Graphics Array
WUXGA	Wide Ultra Extended Graphics Array



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