SY-P293

PC to HDMI Converter and Scaler with Audio

//// **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	08/07/2019	Updated Format/Diagrams

CONTENTS

1.INTRODUCTION

The SY-P293 is designed to scale analogue video signal from a PC source to a digital HDMI output boasting a wide-range of HDTV and PC resolutions. Audio is combined with HDMI video output. This unit offers a selection of colour space and adjustment to obtain the best picture quality.

2. APPLICATIONS

/// Display an analogue PC/HD video signal on an HDMI display

/// Scale an analogue PC/HD video signal to HD resolutions

/// Integrate an analogue PC/HD video device, such as a Laptop or non-HDMI DVD player to an HDMI equipped display or AV receiver

3. PACKAGE CONTENTS

/// PC to HDMI 1080p Scaler Box

/// 5V DC Power Supply Adaptor
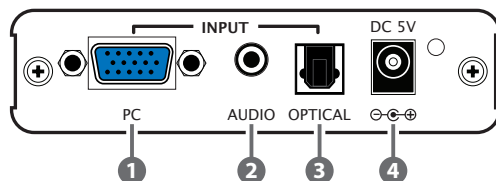
/// Operation Manual

4. SYSTEM REQUIREMENTS

Input source equipment such as PC/laptop or Blu-ray player and output to HDTV or HD monitor with HDMI connection cables.

5. FEATURES

▰ v1.2 HDMI, HDCP 1.1 and DVI 1.0 compliant

▰ PC to HDMI Scaler Converter with Audio

▰ Scales any PC resolutions to PC or HDTV resolutions

▰ Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA. SD/HD - 480i, 576i, 480p, 576p, 720p, 1080i and 1080p

▰ Audio Support: Analogue Stereo, Digital stereo PCM, DTS, and Dolby Digital. Simply select from the audio input source this is then outputted to HDMI, Optical (Toslink), and mini-jack (stereo only) simultaneously

▰ On Screen Menu with push button control

▰ Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size

▰ Automatic detection of the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected (default setting)
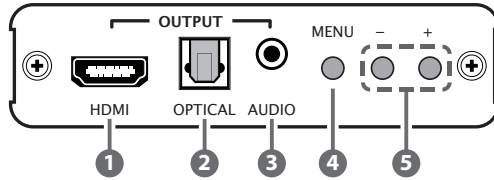
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel

1 **PC Input:** Connect the PC input D-Sub (15-pin) port to the D-Sub output port of your source equipment such like PC.

2 **Audio Input:** Connect the PC 3.5mm phone jack input port to the analogue audio output port of your source equipment.

3 **Optical Input:** Connect the optical input port to the digital audio output port of your source equipment.

4 **Power:** Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet.

6.2 Rear Panel

1 **HDMI Output:** Connect the HDMI output port to the HDMI input port of your display such like HDTV.

2 **Optical Output:** Connect the optical output port to the digital audio input port of your amplifier.

3 **Audio Output:** Connect the PC 3.5mm phone jack output port to the analogue audio input port of your equipment.

4 **Menu Button:** Press the MENU button to bring up OSD operation menu. (See section "4. OSD Operation" for reference.)

5 **+/- Button**:

a. On the first tier of OSD menu, use + and − buttons to move up/ down the highlight item for selection.

b. Once the desired option is selected, use + and − buttons to toggle between setting values.

Note: Outside of the OSD menu, press [−] button to active the Auto Adjust function. The screen will show Auto Adjust.

- Press [MENU] and then minus [−] to switch to 480p mode.
- Press [MENU] and then plus +] to switch to XGA mode.

![CYP logo]

6.3 OSD Menu Operations

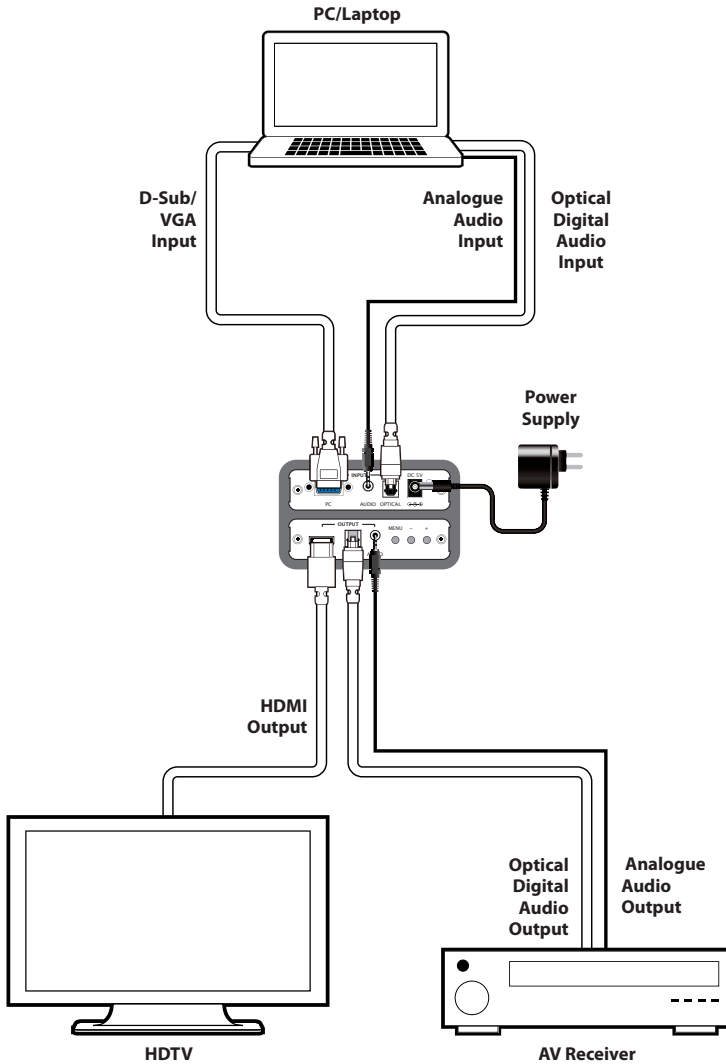| 1st Tier Option	2nd Tier Option	Adjustment
CONTRAST	-	0 ~ 100 of Contrast Level
BRIGHTNESS	-	0 ~ 100 of Brightness Level
FINETUNE	- HUE	0 ~ 100 of Hue Level
	- SATURATION	0 ~ 100 of Saturation Level
	- SHARPNESS	0 ~ 100 of Sharpness Level
	- EXIT	Back to 1st Tier
COLOR	- RED	0 ~ 100 of Red Colour Level
	- GREEN	0 ~ 100 of Green Colour Level
	- BLUE	0 ~ 100 of Blue Colour Level
	- EXIT	Back to 1st Tier
SIZE	-	FULL / OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN
OUTPUT		NATIVE / VGA / SVGA / XGA / SXGA /UXGA / 480i / 480p /
		720p@60Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p /
		720p@50Hz / 1080i@50Hz / 1080p@50Hz / WXGA / WSXGA / WUXGA
AUDIO	-	HDMI / EAR PHONE / OPTICAL
OSD	- HPOSITION	0 ~ 100 of OSD Horizontal Position
	- VPOSITION	0 ~ 100 of OSD Vertical Position
	- TIMER	0 ~ 100 of OSD Existing Time (sec.)
	- BACKGROUND	0 ~ 100 of OSD Transparent Level
	- EXIT	Back to 1st Tier

1st Tier Option	2nd Tier Option	Adjustment
INFORMATION		SOURCE (Input Interface)
		INPUT (Input Resolution)
		OUTPUT (Output Resolution)
		VERSION (Firmware Version)
EXIT		Close OSD Menu

Note: Finetune function works differently under component and VGA input therefore, Hue, Saturation and Sharpness are only adjustable when input signal is component.

6.4 Supported Resolutions

Resolutions	PC INPUT	HDMI OUTPUT	
		SD/HD	PC
480i/576i (NTSC/PAL)		✓	
480p/576p		✓	
720p@50/60		✓	
1080i@50/60		✓	
1080p@50/60		✓	
VGA@60/72/75/85	✓		✓
SVGA@56/60/72/75/85	✓		✓
XGA@60/70/75/85	✓		✓
SXGA@60/75/85	✓		✓
UXGA@60	✓		✓
WXGA@60 (1280x800)	✓		✓
WSXGA@60 (1680x1050)	✓		✓
WUXGA@60 (1920x1200)	✓		✓

7. CONNECTION AND INSTALLATION

PC/Laptop

D-Sub/ VGA Input

Analogue Audio Input

Optical Digital Audio Input

Power Supply

HDMI Output

Optical Digital Audio Output

Analogue Audio Output

HDTV

AV Receiver

8. SPECIFICATIONS

PC Input Port	1 x VGA (15 PIN DSUB)
HDCP Version	v1.1
HDMI Output Port	1 x HDMI
HDMI Specification	v1.2
Analogue Audio Input	3.5mm Stereo Jack
Analogue Audio Output	3.5mm Stereo Jack
Digital Audio Inputs	1 x Optical (Toslink)
Digital Audio Outputs	1 x Optical (Toslink)
Power Supply	5V DC/2.6A (US/EU standards, CE/FCC/UL Certified)
Dimensions (mm)	154(D) x 100(W) x 25(H)
Chassis Colour	Black
Chassis Material	Aluminium
Operating Temperature	Operating from 0°C ~ 48°C
Weight (g)	340

9. ACRONYMS

ACRONYM	COMPLETE TERM
HDMI	High-Definition Multimedia Interface
WUXGA (RB)	Widescreen Ultra Extended Graphics Array (Reduce blanking)