



SY-298H24

HDMI to HDMI Up & Down Scaler
Including 24fps input support

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	SUMMARY OF CHANGE
VS1	09/11/2011	First release

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1. INTRODUCTION

The SY-298H24 will allow a HDMI source signal to be up or down scaled according to the screen specifications required. Any HDMI signal inputted can be scaled up or down to between 480i to 1080p, plus PC output resolutions of VGA or UXGA. This device accepts 1080p24 input resolutions enabling content filmed at 24 frames per second displayed. This feature is particularly useful when a 1080p24 source signal is distributed to multiple displays. If any screen is not 1080p24 compatible, the SY-298H24 can be used to scale the input signal to suit the supported screen resolution, whilst not affecting the signal being sent to the 1080p24 compatible screens. This solution is perfect for home cinema enthusiasts who require full native Blu-ray resolutions in their home cinema system, whilst providing signal flexibility to other screens around the home.

2. APPLICATIONS

- /// PC Resolutions converted into HD Resolutions
- /// HD Resolutions converted into PC Resolutions

3. PACKAGE CONTENTS

- /// HDMI to HDMI Scaler Box
- /// 5V /1A DC Power Adaptor
- /// Operation Manual

4. SYSTEM REQUIREMENTS

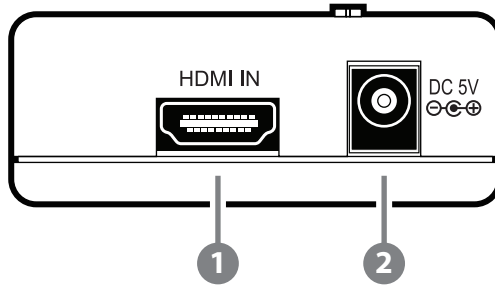
Input source equipment such as PC/laptop or Blu-ray player and output to HDTV or HD monitor with HDMI connection cables.

5. FEATURES

- /// HDMI, HDCP1.1 and DVI compliant
- /// Upscale video signal from HDMI source between 480i and 1080p@50/60, including 1080p24
- /// Supports a wide range of input resolutions from 408i to 1080p and PC from VGA to SXGA
- /// Supports audio sampling rate up to 192kHz
- /// Motion adaptive 3-D deinterlacing algorithm
- /// 3-D noise reduction in both temporal and spatial domain
- /// Supports Frame rate conversion
- /// Adaptive contrast enhancement
- /// Support CEC bypass
- /// OSD (On Screen Display) Menu for ease of use

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



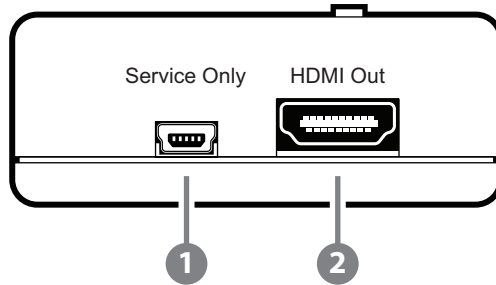
1 HDMI In

This slot is where you plug in your input source device such as PC/ laptop or Blu-ray player with an HDMI cable.

2 DC 5V

This slot is where you plug the 5V DC power supply included in the package into the unit and connect the adaptor to an AC outlet.

6.2 Rear Panel



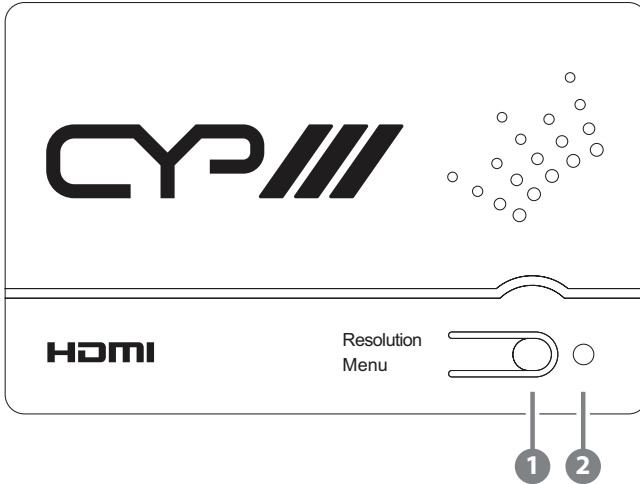
1 USB

This slot is specifically made for factory usage. It does not support any signal transmission or power supply.

2 HDMI Out

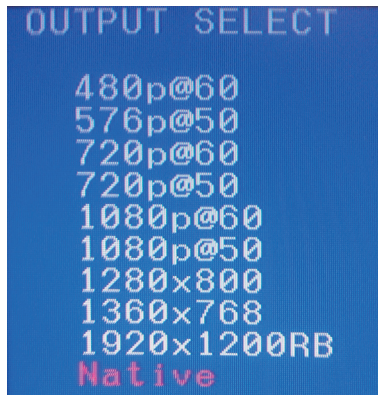
This slot is to connect to an HD TV/display with a HDMI cable for displaying your sources content.

6.3 Top Panel



1 Timing button

Press this button once to show the output displays resolution and while OSD is still on press it again to select the output resolution from 480p ~ 1920×1200RB or Native.



2 Power LED

This LED will illuminate when the device is connected with power supply.

7. CONNECTION AND INSTALLATION



8. SPECIFICATIONS

Maximum Pixel Rate	165MHz
Input Ports	1 x HDMI, 1 x USB (for service only)
Output Ports	1 x HDMI
Input / Output Resolution	VGA~UXGA, 480i~1080p
Audio Sampling Rate	32~192kHz
HDMI Cable In	1080p 8-bit/ M
HDMI Cable Out	1080p 8-bit/ M
ESD Protection	Human body model: ± 8 kV (Air-gap discharge) ± 4 kV (Contact discharge)
Power Supply	5V/1A linear power adaptor (US/EU standards, CE/FCC/UL certified) Or 5V/ 1.2A switching power adaptor (with universal plug, CE/FCC/UL certified)
Dimensions	114 mm (W) \times 65 mm (D) \times 26 mm (H)
Weight	120 g
Chassis Material	Plastic
Silkscreen Colour	White
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	4.7 W

* Cable tested with 24AWG cable, using cables of another type may result in a different operating distance.

* Figures provided in this manual are reference figures only, actual figures may depend on source and display use with cable specification.

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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