



# SY-298H

## HDMI to HDMI Up & Down Scaler

OPERATION MANUAL



## • **Safety Precautions**

Please read all instructions before attempting to unpack or 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 module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

## • **Revision History**

<b><u>Version No</u></b>	<b><u>Date</u></b>	<b><u>Summary of Change</u></b>
<b>V1</b>	<b>20100213</b>	<b>Preliminary Release</b>

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## **1. Introduction**

This Scaler Box is design to display your HD images on the HDTV with better viewing image. It can upscale HDMI input sources to HDMI output for wide-range of HD resolutions; the resolution supports XGA/UXGA/720p/1080p/1366 x 768/1440 x 900/1400 x 1050. This unit allows user to with a variety of output resolutions and adjust for the best picture quality. Move over, with built-in hot-key OSD function and display it helps user to view and select the desire resolution instantly.

## **2. Applications**

- PC timing convert into HD timing
- HD timing convert into PC timing

## **3. Package Contents**

- HDMI to HDMI scaler box
- 5V DC power adaptor
- Operation Manual

## **4. System Requirements**

Input source equipment and output HD display with HDMI connection cables.

## **5. Features**

- Output supports HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- HDCP compliant
- Input supports HDMI v1.3 8/10/12-bit deep color mode
- Supports HD resolution input: VGA~WSXGA, WUXGA@60 (Reduce Blanking)/ 1366X768/1440X900/1400X1050/480p@60, 720p@60, 1080p@60
- Fast switch hot key from 720p to 1080p/1280 x 800/1366 x 768/1920 x 1200(RB)
- Auto –Detection and Hot plug
- Interlaced to progressive conversion with various picture display supplement

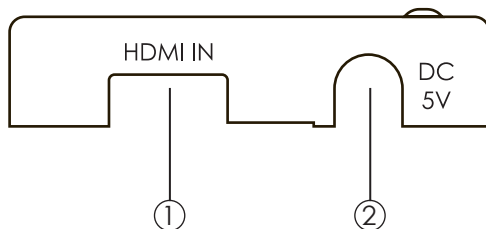
6. Specifications

TMDS Clock Frequency	225MHz
Input port	1 x HDMI
Output port	1 x HDMI
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	114 (W) x 65 (D) x 26 (H)
Weight(g)	78
Chassis Material	Plastic
Silkscreen Color	Black
Power Consumption	2.7W
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)

## 7. Hardware Description

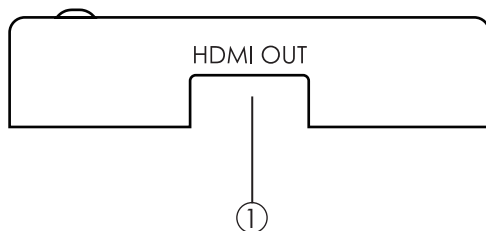
The following sections describe the hardware components of the unit.

### 7.1 Front Panel



- ① HDMI IN: This slot is where you plug your input source equipment with HDMI cable for source signal sending.
- ② DC 5V: This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.

### 7.2 Rear panel



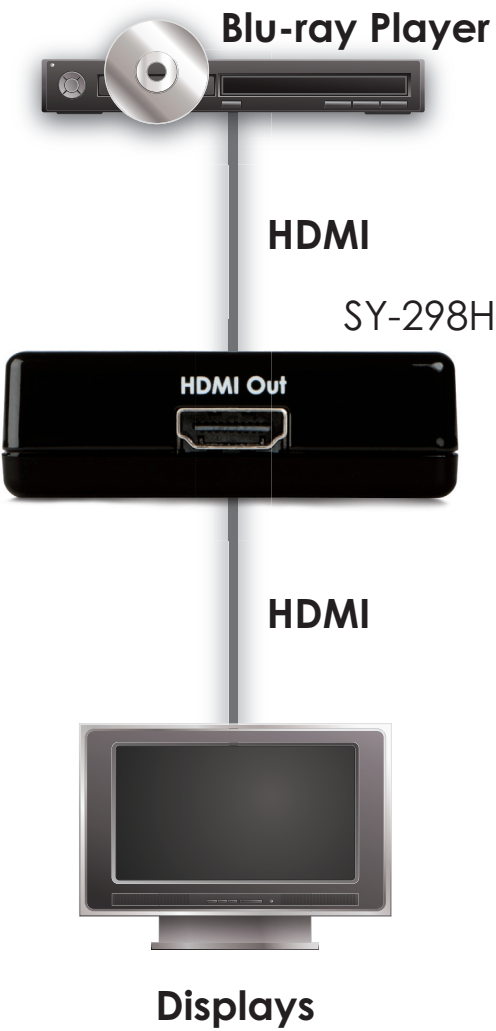
- ① HDMI OUT: This slot is where you connect to HDTV display with HDMI cable for source signal display.

### 7.3 Top Panel



- ① Power LED: This LED will illuminate when power is connected.
- ② Timing button: Press this button once to show both input and output display resolution and while OSD is still on press it again to select output resolution from 720p to 1080p/1280 x 800/1366 x 768/1920 x 1200(RB).

8. Connection and Installation







# Acronyms

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<b>Acronym</b>	<b>Complete Term</b>
HDCP	High-bandwidth Digital content protection
HDMI	High-Definition Multimedia Interface
VGA	Video Graphics Array
WUXGA	Wide Ultra Extended Graphics Array



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