

# Composite S-Video to HDMI 1080p Scaler Format Converter - # 15394



**Operation Manual**

## Introduction

The Composite Video/S-Video to HDMI Scaler is designed to upscale the video signal from an analog input source to a digital HDMI output in a wide-range of HDTV and PC resolutions up to 1080p/WUXGA. Additionally this unit can also convert a digital/analog audio signal and then simultaneously output to an HDMI, Optical and 3.5mm Mini-jack (L/R audio) connections. This unit has a comprehensive OSD menu that allows the user to select a variety of output resolutions and make picture adjustments to optimize the image quality

## Applications

- Display an analog video signal on an HDMI display
- Scale an analog video signal to HD resolutions
- Connect an analog video device, such as a VCR or Laser Disc player to an HDMI equipped display or AV receiver

## Features

- HDMI, HDCP and DVI compliant
- Supports a wide range of video standards including NTSC, NTSC4, PAL, PAL-M, PAL-N and SECAM
- Supports upscaling to resolutions of VGA to WUXGA (PC) or 480p to 1080p (HD)
- Automatically detects the display settings of the connected display and outputs the correct resolution and refresh rate when the NATIVE output option is selected
- Supports 50/60Hz frame rate conversion
- Supports 3D motion video adaptive, 3D de-interlacing and 3:2/2:2 pull down detection and recovery
- Provides adjustment of contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size of the video output
- Supports OSD selectable stereo analog and digital audio inputs and simultaneous stereo analog and digital audio outputs to HDMI, Optical digital audio and analog mini-jack connections

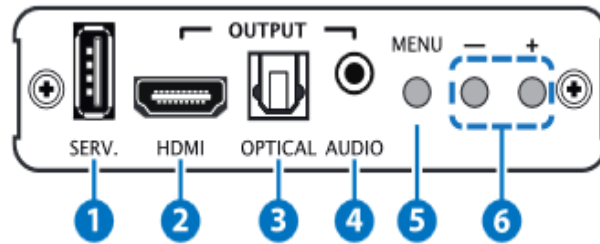
## System

### Requirements

Analog video source equipment such as a non-HDMI equipped DVD player or VCR and HDMI equipped display or switching device such as a matrix or AV receiver.



**Front Panel**



**1. SERV.:**

Reserved for firmware update only.

**2. HDMI OUTPUT:**

Connect to an HDMI equipped display or AV receiver for output of the combined video and audio output.

**3. OPTICAL OUTPUT:**

Connect to an amplifier or active speakers with an optical cable for LPCM 2 channel digital audio output.

**4. AUDIO OUTPUT:**

Connect to an amplifier or active speakers with a 3.5mm mini-jack cable for analog audio output.

**5. MENU Button:**

Press this button to enter the OSD (On-Screen Display) menu and press it again to make a selection.

**6. +/- Button:** Press these buttons to:

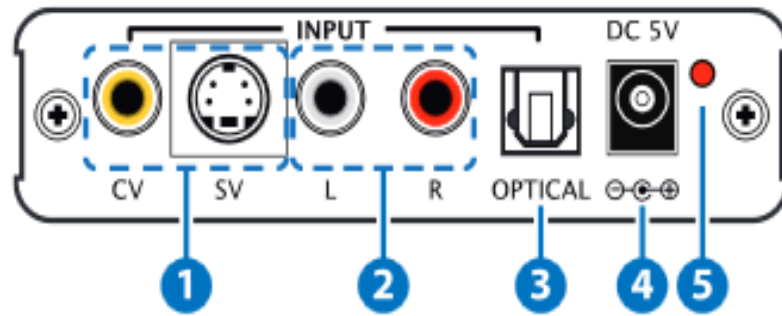
When in the OSD menu

- Navigate up/down the OSD menu.
- To adjust the value of a menu selection.

Under normal operation (outside of OSD menu)

- Press the '+' button to switch between CV and SV inputs.
- Press the '+' button together with the 'MENU' button to switch the output resolution to XGA@60 (1024×768).
- Press the '-' button together with 'MENU' button to switch the output resolution to 720p@60.
- Press both the '+' and '-' buttons at the same time to reset the device to the default settings.

## Rear Panel



### 1. CV/SV INPUT:

Connect to an analog video source device such as a DVD/Video player with a composite or S-Video cable or DVD player with D-sub to RCA adaptor.

### 2. L/R INPUT:

Connect to the stereo analog audio output of the source device with a stereo audio cable for analog audio signal input.

### 3. OPTICAL INPUT:

Connect to the optical digital audio output of the source device with an optical cable for digital audio signal input.

### 4. DC 5V:

Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.

### 5. Power LED:

This LED will illuminate once the unit is connected to an active power supply

## OSD MENU

MAIN MENU	1 <sup>st</sup> LAYER	2 <sup>nd</sup> LAYER
PICTURE SETTING	CONTRAST	0~100 (50)
	BRIGHTNESS	0~100 (50)
	EXIT	
FINETUNE	HUE	0~100 (50)
	SATURATION	0~100 (50)
	SHARPNESS	0~100 (50)
	NR	OFF, LOW, MIDDLE, HIGH (OFF)
	EXIT	
COLOUR SETTING	RED	0~100 (50)
	GREEN	0~100 (50)
	BLUE	0~100 (50)
	EXIT	
OUTPUT SETTING	SIZE	FULL, UNDERSCAN, OVERSCAN, LETTER BOX, PANSCAN. ASPECT

		(FULL)
	RESOLUTION	640×480@60, 800×600@60, 1024×768@60, 1280×1024@60, 1400×1050@60, 1600×1200@60, 1280×800@60, 1440×900@60, 1680×1050@60, 1920×1200@60RB, 1600×900@60, 480p, 576p, 720p@50, 720p@60, 1080i@50, 1080i@60, 1080p@50, 1080p@60
	EXIT	
AUDIO SETTING	DELAY (Analog Audio Only)	OFF, 40ms, 110ms, 150ms (OFF)
	INPUT	ANALOG, OPTICAL (ANALOG)
	SOUND	ON, MUTE (ON)
	EXIT	
	H-POSITION	0~100 (10)
	V-POSITION	0~100 (90)
	TIMER	0~100 (50)
	BACKGROUND	0~100 (50)
	DISPLAY	INFO, ON, OFF (INFO)
	EXIT	

Note: Values in brackets are default for that setting

## Specifications

<b>Video Bandwidth</b>	225MHz/6.75Gbps
<b>Input Ports</b>	1×CV, 1×SV, 1×L/R, Optical (TOSLINK), 1×USB (Service only)
<b>Output Ports</b>	1×HDMI, Optical (TOSLINK), 1×3.5mm Mini-jack
<b>HDMI Output Resolutions HDMI and Optical Audio</b>	Up to 1080p & WUXGA@60 (RB)
<b>Sampling Rates</b>	Up to 48kHz
<b>Power Supply</b>	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
<b>ESD Protection</b>	Human body model: ±8kV (air-gap discharge) ±6kV (contact discharge)
<b>Dimensions</b>	102mm (W)×186.75mm (D)×25mm (H)
<b>Weight</b>	396g
<b>Chassis Material</b>	Aluminum
<b>Color</b>	Black
<b>Operating Temperature</b>	0 °C~40 °C / 32 °F~104 °F
<b>Storage Temperature</b>	-20 °C ~ 60 °C / -4 °F ~ 140 °F
<b>Relative Humidity</b>	20 ~ 90 % RH (non-condensing)
<b>Power Consumption</b>	4.1W

# Connection Diagram

