# CV/SV to HDMI 1080p
# Scaler Box - **ID# 613**



**Operation Manual**

## Introduction

CV/SV to HDMI 1080p Scaler Box is designed to upscale an analog video signal to a High Definition HDMI output. The unit takes a Composite Video or S-Video input source, and outputs to your display via HDMI at a wide-range of selectable HDTV and PC resolutions up to 1080p.

Besides video upscaling, the scaler box also converts the digital/analog audio signal to digital/analog format, then outputs to HDMI combining with the video, TOSLink (Optical fiber), and phone jack (L/R audio) simultaneously.
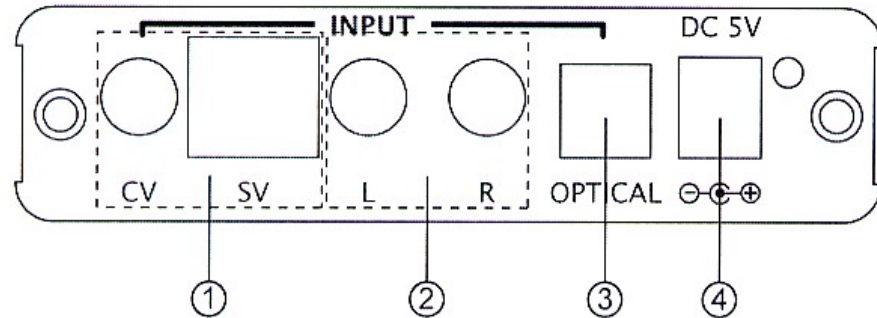
This unit has a comprehensive OSD menu that allows user to select a variety of output resolutions and adjust for best picture quality.

CV/SV to HDMI 1080p Scaler Box would be suitable for those who wish to connect devices such as a DVD player, game console or Set top box (which may only have Composite / S-Video connections) to their High Definition display via HDMI.
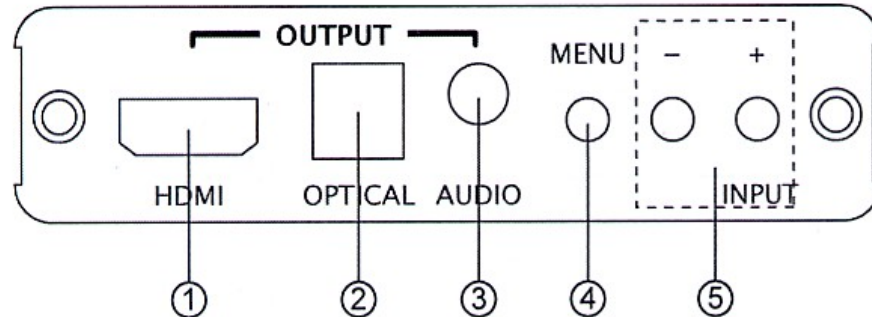
## Features

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant.
- Scales any video resolutions to PC (VGA - WUXGA)/ HD (480i - 1080p) resolutions.
- Automatically detect the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected.
- Supports 50/60 Hz frame rate conversion.
- Supports 3-D motion video adaptive, 3-D de-interlacing and 3:2/2:2 pull down detection and recovery.
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size.
- Supports high resolution output (See section "7. Support Resolution" for reference.):
  PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA. SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- Supports stereo LPCM analog/digital audio input and stereo LPCM analog/digital output. Simply select among the audio input sources in the OSD menu, then output the audio to HDMI, TOSLink and phone jack simultaneously.

1. CV/SV Input: Connect the CV/SV port to the input port of your source equipment such like DVD player.
2. L/R Input: Connect the analog audio input port to the output port of your analog audio equipment.
3. TOSLink (optical fiber) Input: Connect the optical input port to the digital audio output port of your source equipment.
4. Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.



1. HDMI Output: Connect the HDMI output port to the HDMI input port of your display such like HDTV.
2. TOSLink (optical fiber) Output: Connect the optical output port to the digital audio input port of your amplifier.
3. Audio Output: Connect the PC3.5mm phone jack output port to the analog 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.

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**Support Resolution**

| | CV/SV INPUT | HDMI OUTPUT | |
|---|---|---|---|
| | SD | SD/HD | PC |
| 4801/5761 (NTSC/PAL) | V | V | |
| 480P/576P | | V | |
| 720P@(50/60) | | V | |
| 10801@(25/30) | | V | |
| 1080P@(50/60) | | V | |
| VGA@(60/72/75/85) | | | v |
| SVGA@(56/60/72/75/85) | | | V |
| XGA@(60/70/75/85) | | | V |
| SXGA@(60/75/85) | | | V |
| UXGA@60 | | | V |
| WXGA@60(1280x800) | | | V |
| WSXGA@60 (1680x1050) | | | V |
| WUXGA@60(1920x1200) | | | V |

**OSD Operation**

| 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 Color Level |
| | - GREEN | 0 - 100 of Green Color Level |
| | - BLUE | 0 - 100 of Blue Color Level |
| | - EXIT | Back to 1st Tier |
| SIZE | | FULL / OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN |
| OUTPUT | | NATIVE / VGA / SVGA / XGA / SXGA /UXGA / 480i / 480p / 720p@$^{60}$Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz / WXGA / WSXGA / WUXGA |
| AUDIO | - | 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 |
| INFORMATION | | SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version) |
| EXIT | | Close OSD Menu |

**Reset Functionality**

To reset the unit, press and hold the MENU button then re-plug the DC power into the unit to set the unit back to factory default, with output resolution as NATIVE. This feature is also useful when the output is scaled to a resolution not supported by the connected TV/monitor so no picture is shown, because the NATIVE resolution can guarantee the proper (might not be the best) output.

**Specifications**

| | |
|---|---|
| **Input ports** | 1 x CV/SV, 1 x R/L, 1 x TOSLink (optical fiber) |
| **Output ports** | 1 x HDMI, 1 x 3.5mm Phone Jack, 1 x TOSLink (optical fiber) |
| **Power Supply** | 5V/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| **Remote Control** | Discrete IR remote |
| **Dimensions (mm)** | 187)D) x 102(W) x 25(H) |
| **Weight)g)** | 405 |
| **Chassis Material** | Aluminum |
| **Silk Skin Color** | Silver |
| **Operating Temperature** | Operating from 0°C – 40°C |

**Connection and Installation**



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