

# HDMI to HDMI Scaler / Converter with Audio Separation

## HDMI2HDMI



**CONVERGEAV**

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## **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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# Introduction

Thank you for purchasing a StarTech.com HDMI to HDMI Scaler/ Converter with Audio Separation. This compact device accepts HDMI input with a separate Toslink or analog audio signal, and scales it to HDMI output - adjusting the resolution to match the display's native resolution, while allowing you to add external analog or digital audio that can be combined with the HDMI video signal or separated to an analog or digital output.

## Features

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- Supports 50/60Hz frame rate conversion
- Supports 3-D motion video adaptive de-interlacing,
- Supports 3:2 / 2:2 pull-down detection and recovery
- Output picture adjustment
- Supports digital and analog audio input and output

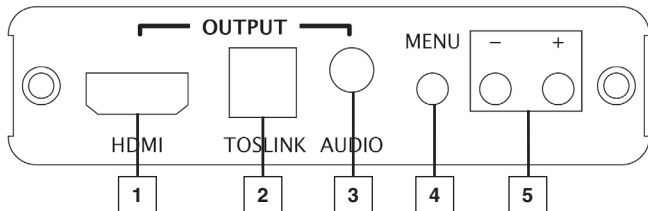
## Package contents

This package should contain:

- 1 x HDMI to HDMI Scaler with Audio Separation
- 1 x 5VDC Power Supply Adapter
- 1 x Instruction Manual

# Operating Controls and Functions

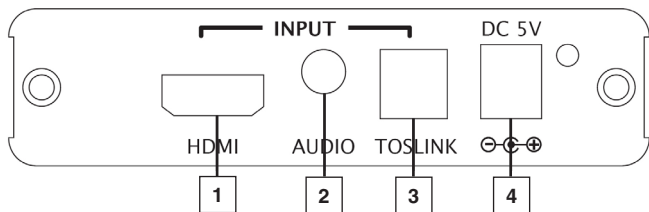
## Front Panel



1. **HDMI OUTPUT:** Connect the HDMI output port to the HDMI input port of your display.
2. **TOSLINK OUTPUT:** Connect the digital audio output port to the input port of your digital audio equipment (i.e. amplifier or receiver, using Optical Fiber cable).
3. **AUDIO OUTPUT:** Connect the analog audio output port to the input port of your analog audio equipment (speakers etc.)
4. **MENU Button**
  - a. Press the MENU button to bring up OSD operation menu
  - b. When in the OSD menu mode, use MENU button as an OK key to confirm the selection.
5. **+/- Buttons:**
  - a. On the first tier of OSD menu, use + and - buttons to scroll up/down the highlight bar for selection.
  - b. Once the desired option is selected, use + and - buttons to toggle between setting values.

## Operating Controls and Functions - Cont'd

## Rear Panel



- 1. HDMI INPUT:** Connect the HDMI input port to the HDMI output port of your source equipment (i.e. DVD player or Set-Top-Box)
- 2. AUDIO INPUT:** Connect the analog audio input port to the output port of your source equipment
- 3. TOSLINK INPUT:** Connect the digital audio input port to the Toslink output port of your source equipment such as DVD player or Set-Top-Box
- 4. Power Supply:** Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

# OSD Operation

1st Tier Option	2nd Tier Option	Adjustment/Function
<b>CONTRAST</b>		0 ~ 100% of Contrast Level
<b>BRIGHTNESS</b>		0 ~ 100% of Brightness Level
<b>FINETUNE</b>	HUE	0 ~ 100% of Hue Level
	SATURATION	0 ~ 100% of Saturation Level
	SHARPNESS	0 ~ 100% of Sharpness Level
	EXIT	Back to 1st Tier
<b>COLOR</b>	RED	0 ~ 100% of Red Color Level
	GREEN	0 ~ 100% of Green Color Level
	BLUE	0 ~ 100% of Blue Color Level
	EXIT	Back to 1 Tier
<b>OUTPUT</b>		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
<b>AUDIO</b>		HDMI / EAR PHONE / OPTICAL
<b>OSD</b>	HPOSITION	0 ~ 100% of OSD Horizontal Position
	VPOSITION	0 ~ 100% of OSD Vertical Position
	TIMER	0 ~ 100% of OSD Existing Time (sec.)
	TRANSP	0 ~ 100% of OSD Transparent Level
	EXIT	Back to 1st Tier
<b>INFORMATION</b>		SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
<b>EXIT</b>		Close OSD Menu

# Connection and Installation



Input Device

HDMI Cable



HDMI to HDMI  
Scaler Box

HDMI Cable



## Supported Resolutions

Input	
PC	VGA @60Hz, 72Hz, 75Hz, 85Hz; <b>SVGA</b> @52Hz, 60Hz, 72Hz, 75Hz, 85Hz XGA @60Hz, 70Hz, 75Hz, 85Hz; <b>SXGA</b> @60Hz, 75Hz, 85Hz, <b>UXGA</b> @60Hz; <b>WXGA</b> @60Hz; <b>WSXGA</b> @60Hz; <b>WUXGA</b> @60Hz;
TV	480i, 480p, 576i, 576p, 720p @ 50/60Hz 1080i @ 25/30Hz; 1080p @ 50/60Hz
Output	
PC	VGA @60Hz, 72Hz, 75Hz, 85Hz; <b>SVGA</b> @52Hz, 60Hz, 72Hz, 75Hz, 85Hz XGA @60Hz, 70Hz, 75Hz, 85Hz; <b>SXGA</b> @60Hz, 75Hz, 85Hz; <b>UXGA</b> @60Hz; <b>WXGA</b> @60Hz; <b>WSXGA</b> @60Hz; <b>WUXGA</b> @60Hz
TV	480i, 480p, 576i, 576p, 720p @ 50/60Hz 1080i @ 25/30Hz, 1080p @ 50/60Hz

# Specifications

<b>Frequency Bandwidth</b>	1.65Gbps (single link)
<b>Input Ports</b>	1 x HDMI; 1 x Toslink; 1 x 3.5mm Audio jack
<b>Output Ports</b>	1 x HDMI; 1 x Toslink;1 x 3.5mm Audio jack
<b>Power</b>	5V/2.6A DC Power Supply
<b>Dimensions</b>	102(w) x 145(d) x 25(h)mm
<b>Weight</b>	3.2Kgs

## Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit [www.startech.com/support](http://www.startech.com/support) and access our comprehensive selection of online tools, documentation, and downloads.

## Warranty Information

This product is backed by a one-year warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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