Video Scaler

Composite/S-Video & Stereo Audio HDMI Scaler / Converter

VID2HDMITV

Instruction Guide

* Actual product may vary from photo

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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.

Table of Contents

Introduction

Thank you for purchasing a StarTech.com video scaler. This device allows you to convert composite, S-Video and accompanying audio signals to an HDMI connection, for use on a PC or high definition display. Offering a variety of output video resolutions, VID2HDMITV also provides an on-screen display menu, to help simplify fine tuning and picture adjustment.

Features

- Motion adaptive 3D Y/C separation comb filter
- Advanced 3D motion adaptive de-interlacing
- Automatic 2:2 / 3:2 film mode detection
- Supports 50Hz to 60Hz frame rate conversion
- OSD menu to adjust picture quality, color, contrast and brightness
- Built-in 8 bit DAC for RGB or YPbPr output
- Automatic NTSC/PAL video format detection and switching

Before You Begin

Package Contents

- 1 x Video to HDMI Scaler/Converter
- 1 x Remote control
- 1 x Instruction Manual
- 1 x Universal Power Adapter

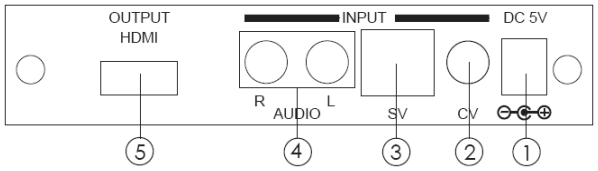
Site Preparation

Ensure you have the necessary cables to connect your video source (such as a DVD player) to the video scaler. Note that if you have previously used the device with a standard television, you can most likely use those cables to connect the item to the video scaler. The video scaler should be in close proximity to the video source and be connected using high-quality cables for the best possible results.

Need more cables? Contact your dealer or visit **www.startech.com** for more information.

Connecting Devices to the Video Scaler

VID2HDMITV
Rear Panel



1	DC power jack
2	Composite Video
3	S-Video
4	Audio input L/R
5	HDMI output

1. Disconnect your high-resolution display from its existing video connections.

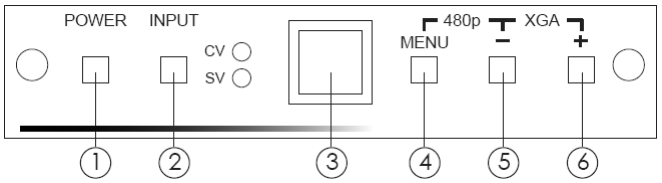
2. Place the video scaler near the video source and connect the power adapter to a suitable wall outlet. Connect the opposite end to the **DC 5V 2A** connector on the rear panel of the video scaler.

3. Connect the cable you used to connect your video source to its previous video display (usually labeled as **VIDEO OUT**, or similar) as removed in step 1 to the **CV** or **SV** connector on the rear of the video scaler as appropriate. The connector you use will depend on the type of cable the video source uses.

4. As necessary, connect the audio signal source to the **AUDIO L** & **R** ports on the rear panel of the scaler.

5. Apply power to the scaler, by pressing the **POWER** button.

Using the Menu Options



1	**POWER**
2	**INPUT**
3	**Remote sensor**
4	**MENU**
5	**+ , -**

To begin customizing the video image, press the menu button to bring up the following OSD menu:

To navigate through the OSD menu system:

1. Use the **+** and **-** keys on the front of the video scaler to move between options.
2. Use the **MENU** key to select an item to adjust or display a sub-menu.
3. Once an item is selected, use the **+** and **-** keys to adjust the setting.
4. When you are satisfied with your changes, press **MENU** to activate the setting.
5. You can continue to adjust other settings, or select Exit from the OSD menus until the OSD disappears.

	Default	Range
Bright	16	1-31
Contrast	16	1-31
Color	16	1-31
Tint	16	1-31
Sharp	05	1-19
Default	OK	
Exit		

Picture Adjust

Use the **+**,**-** buttons to move the cursor to the desired parameter. Press the **MENU** button to confirm your selection. At this point, the selected parameter will turn red, and you can use the **+**,**-** buttons to increase or decrease the value of the parameter. Once the necessary adjustments have been made, Press the **MENU** button to apply the change.

Output select

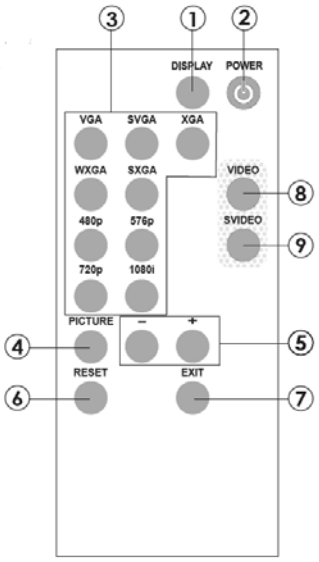
When selected, this menu will allow you to change the output resolution of the display:

Output Setup
Timing XGA
Exit

VGA	640x480	60Hz
SVGA	800x600	60Hz
XGA	1024x768	60Hz
WXGA	1280x768	60Hz
SXGA	1280x1024	60Hz
480p	720x480	60Hz
576p	720x576	50Hz
720p	1280x720	60Hz
1080i	960x540p	60Hz

Use the **+**,**-** buttons to move the cursor to the desired resolution/refresh rate. Press the **MENU** button to confirm your selection. **Please note**: Selecting a resolution/refresh rate that is not supported by your display, may damage the display. Please consult the documentation that accompanied the display unit at the time of purchase.

Using the Remote Control



1. **Display**: Press this button to display the input source and output resolution on the screen.

2. **POWER**: Power ON/OFF button.

3. **VGA~1080i**: Press to select your desired output resolution.
4. **PICTURE**: Press this button to enter the picture adjust submenu. Use the **+** and **-** buttons to move the cursor up/down to the desired parameter, press **PICTURE** again to confirm.

5. **+/-**: Press to move the cursor selection up/down to the desired parameter, or press to increase/decrease the setting value.

6. **RESET**: Press to reset all configurations back to factory default value.

7. **EXIT**: Pressing this button will exit the OSD.

8. **VIDEO**: Press this button to select composite video input.

9. **SVIDEO**: Press the button to select SVideo input.

Troubleshooting

Problem: No image is being displayed from the video source or the OSD.
Cause: The input setting or output timing (resolution and refresh rate) is incorrect.
Resolution: a) With an HDTV display, adjust the settings back to the default setting for your display type by pressing the **MENU** and **-** buttons simultaneously. With a computer monitor, press the **+** and **-** buttons simultaneously to return to XGA resolution.
b) Ensure all cables are securely connected.

Problem: The image is distorted or blurry.
Cause: The output timing settings/image quality settings are not optimized, or there is interference degrading the cable signal.
Resolution: a) Adjust the timing settings and image settings using the menu system to improve image quality and ensure the video source is working normally.
b) Use the shortest cable length possible, and ensure that they are of a high quality. Heavily-shielded cables with gold-plated connectors offer superior performance and signal protection. Do not use converters or extension cables unless they were supplied with the video scaler.

Specifications

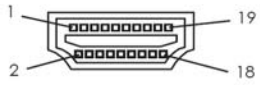
General specifications

Input signal levels	Video@1Vp-p, 75 ohm, Y@1 Vp-p, 75 ohm Color@ 0.7 Vp-p, 75 ohm
Output Format	Digital RGB
Output Connector	HDMI Type A female
Output Signal	Bit stream
Weight	400g
Dimensions	125(W) x 123(D) x 30(H) mm

Output Signal specifications

PC Resolutions	Vert Rate	Scan Type	Format Digital out Pin 1~19
VGA 640 X 480	60 Hz	Progressive	RGB
SVGA 800 X600	60 Hz	progressive	RGB
XGA 1024X768	60 Hz	Progressive	RGB
WXGA 1280X768	60 Hz	Progressive	RGB
SXGA 1280X1024	60 Hz	Progressive	RGB
HDTV Resolutions	Vert Rate	Scan Type	
480p 720 x 480	60 Hz	Progressive	RGB
576p 720 x 576	50 Hz	Progressive	RGB
720p 1280 x 720	60 Hz	Progressive	RGB
1080i 960x540p	60 Hz	Progressive	RGB

HDMI connector pin assignment



Pin#	Function Assignment	Pin#	Function Assignment
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

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 our Web site to access our comprehensive selection of online tools, documentation, and downloads:

www.startech.com/support

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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