

LINDY®

CONNECTION PERFECTION

VGA to HDMI 1080p Scaler

Manual

English



LINDY No. 38099

www.lindy.com



Introduction

Thank you for purchasing the LINDY VGA to HDMI 1080p Scaler. The VGA to HDMI Scaler is designed to upscale an analogue VGA video signal to a wide range of HDTV and PC resolutions. Perfect for use with LCD, Plasma and Projector displays. The VGA to HDMI Scaler will automatically detect the factory setting of the attached display and output the corresponding resolution and refresh rate when the Native output is selected. Support is provided for both analogue and digital (TosLink) audio input and output. In addition analogue to digital and digital to analogue conversion is also provided. A comprehensive On Screen Display (OSD) allows you to make changes to the various setting and also choose from a wide range of output resolutions to achieve the best picture quality.

Package Contents

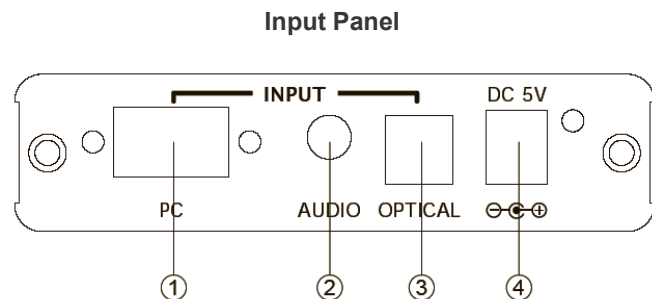
- LINDY VGA to HDMI Scaler
- 3.5mm Male to Left + Right Stereo adapter cable
- Male to Male VGA Cable 1.2m
- Multi-Country power adapter
- This User Manual

Installation

Input/Output Connectors:

The VGA to HDMI Scaler can accept an analogue VGA signal and stereo audio via analogue and optical audio inputs. Simply connect your VGA source using the supplied cable. If required you may also connect an analogue audio or digital (TosLink) source to the scaler which will also incorporate the audio signal into the HDMI output. The scaler also offers analogue to digital or digital to analogue conversion. Once connected the VGA to HDMI scaler will automatically detect the mode and resolution of the connected display.

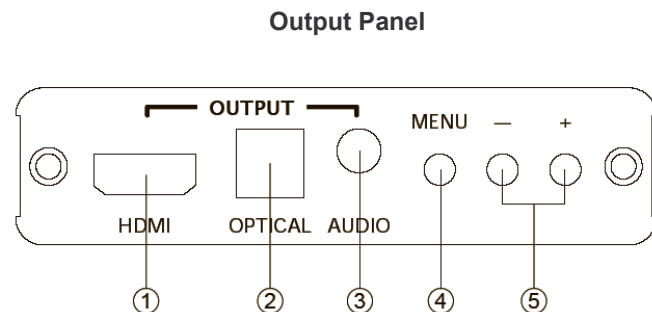
1. VGA Input 15 Way HD Female
2. Analogue audio input 3.5mm jack socket
3. Optical audio input (TosLink)
4. DC +5V power socket



Output Connectors and OSD MENU Buttons:

The VGA to DVI scaler can output a variety of PC and High Definition resolutions. In addition it can also output audio in both analogue and digital format. Simply connect the scaler using a suitable HDMI to HDMI or HDMI to DVI-D cable. If required you may also connect an analogue audio or digital (TosLink) cable to your display or amplifier. Use the "MENU" button to select the desired output resolutions from the on screen menu settings.

1. HDMI output
2. Optical audio output (TosLink)
3. Analogue audio output 3.5mm jack socket
4. On Screen Menu (OSD) button
5. Function selection buttons



Operation

Pressing the MENU button will bring up the on screen display (OSD). Refer to the following table for details on the OSD MENU functions. You can easily navigate the settings using the “MENU” button and the “+” and “-” buttons to highlight the required function. Once a parameter is selected use the “+” and “-” to increase or decrease the setting and then press the “MENU” button to confirm. Choose “EXIT” to return to the previous menu.

OSD MENU

1 st Tier Option	2 nd Tier Option	Adjustment
CONTRAST		0~100 of Contrast Level
BRIGHTNESS		0~100 of Brightness Level
FINE TUNE	HUE	0~100 of Hue Level
	SATURATION	0~100 of Saturation Level
	SHARPNESS	0~100 of Sharpness Level
	EXIT	Back to 1st Tier
COLOUR	RED	0~100 of Red Colour Level
	GREEN	0~100 of Green Colour Level
	BLUE	0~100 of Blue Colour Level
	EXIT	
SIZE		FULL, OVERSCAN, UNDERSCAN, LETTER BOX, PANSKAN
OUTPUT		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
AUDIO		Ear Phone, Optical
OSD	HPOSITION	0~100 of OSD Horizontal Position
	VPOSITION	0~100 of OSD Existing Time (sec.)
	TIMER	0~100 of OSD Horizontal Position
	BACKGROUND	
	EXIT	Back to 1st Tier
INFORMATION		Source (Input Interface), Input (Input Resolution), Output (Output resolution), Version (Firmware Version)
EXIT		Close OSD Menu

Supported Screen Resolutions

	PC INPUT	HDMI OUTPUT	
	PC	SD/HD	PC
480i/ 576p (NTSC/PAL)		*	
480p/576p		*	
720p@50/60Hz		*	
1080i@50/60Hz		*	
1080p@50/60Hz		*	
VGA@60/72/75/85Hz	*		* @60Hz
SVGA@56/60/72/75/85Hz	*		* @60Hz
XGA@60/70/75/85Hz	*		* @60Hz
SXGA@60/75/85Hz	*		* @60Hz
UXGA@60Hz	*		*
WXGA@60Hz (1280x800)	*		*
WSXGA@60Hz (1680x1050)	*		*
WUXGA@60Hz (1920x1200)	*		*

Note: * VGA/SVGA/XGA/SXGA Outputs only support 60Hz

Specifications

- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant
- Scales any PC resolution to PC (VGA~WUXGA) and SD/HD (480i~1080p) resolutions
- Automatically detects the factory setting of the connected display device
- Comprehensive on screen menu (OSD) for making changes to settings and selecting output resolutions
- Supports a wide range of PC and SD/HD screen resolutions and refresh rates
- Supports Stereo LPCM analogue/digital inputs and outputs
- Input Ports: 1 x 15 Way HD Female, 1 x 3.5mm Stereo Jack Socket, 1 x TosLink (Optical)
- Output Ports: 1 x HDMI Female, 1 x 3.5mm Stereo Jack Socket, 1 x Toslink (Optical)
- Compatible with DVI-D displays when used with a suitable adapter (See note below)
- Power Supply: 100~240V AC 50-60Hz, 5V DC 2.6A centre positive
- Dimensions: 100 x 154 x 25mm (WxDxH)

Installation

The following diagram shows a typical installation. Connect your VGA source to the scaler using the VGA cable supplied cable. You may also wish to connect a stereo audio cable or optical TosLink cable. Use a HDMI cable to connect to your display device and a stereo audio cable or optical TosLink cable to your display or amplifier.



Troubleshooting

Output Setup

When entering the output setup menu you will have the option to choose one of several display resolutions. Please ensure your display device supports the required resolution. Use the on screen menu to select "OUTPUT" and choose the required resolution by pressing the "+" or "-" button, followed by the "MENU" button to confirm your selection.

Reset Function

Use this function to reset the scaler back to factory defaults. Press and hold the "MENU" button and turn the power off then back on. The unit will restart with the video output set to your displays "Native" resolution. This feature is useful when the output is scaled to a resolution not supported by the connected display device.

Notes on using DVI-D equipped display devices: To connect display devices equipped with DVI-D connections, you can use either modular HDMI/DVI-D adapters or HDMI/DVI-D adapter cables. Be aware that DVI-D is a 'video only' interface; audio signals are not supported. Also, please note that DVI-D equipped displays must support HDCP signal decoding to display HDCP protected HDMI signals. HDCP compatible displays will normally feature the **HD Ready** logo.

Technical Support and Service

For commercial or general product support, contact LINDY.
For technical help contact LINDY via our website www.lindy.com

CE/FCC

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards EN55022/EN55024 and the further Standards cited therein.

FCC Certification

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. You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Recycling Information



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Die Europäische Union hat mit der WEEE Direktive umfassende Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden von der Bundesregierung im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Dieses Gesetz verbietet vom 24. März 2006 an das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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