



**COMPUTER CONNECTION TECHNOLOGY**

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## **HDMI Scaler/Switch**

**Quick Start Guide**

*English*

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**LINDY No. 32596**

**[www.lindy.com](http://www.lindy.com)**



## 1. Introduction

Thank you for purchasing the LINDY HDMI scaler with remote control. This high performance scaler is designed to upscale digital & analogue signals from Composite, S-Video, PC, Component (HD) and HDMI devices to a digital HDMI output. Besides up scaling to HDTV (1080p) and WUXGA (1920x1200) the scaler also converts analogue audio to digital then outputs through HDMI or coaxial S/PDIF.

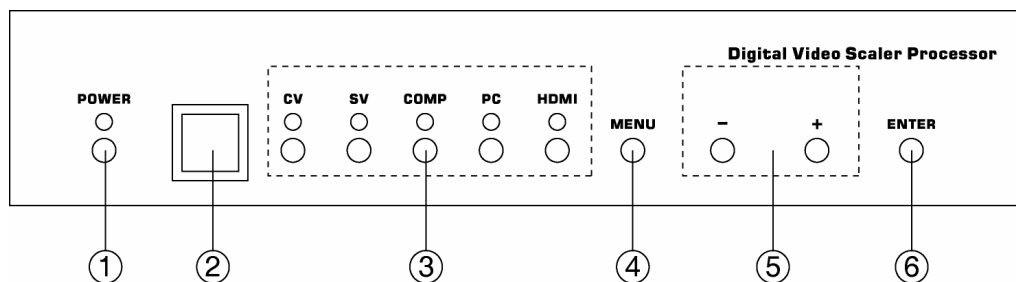
The scaler also has a comprehensive on screen display menu to allow you to select a variety of output resolutions for best picture quality.

## 2. Features

- HDMI1.2, HDCP 1.1 and DVI 1.0 Compliant
- Automatically detects the resolution of the connected display
- Supports 50/60Hz frame rate conversion
- Supports 3D motion video, 3D de-interlacing and 3:2 / 2:2 pull down detection and recovery
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (colour tone) level and aspect ratio size
- Ideal for home theatre integration, conference room and retail stores
- Supports high resolution input/output
  - PC: VGA, SVGA, XGA, SXGA, UXGA & WUXGA
  - HDTV: 480i, 576i, 576p, 1080i & 1080p
- RS-232 port for firmware upgrade
- Digital and analogue audio input and digital output
- IR remote control

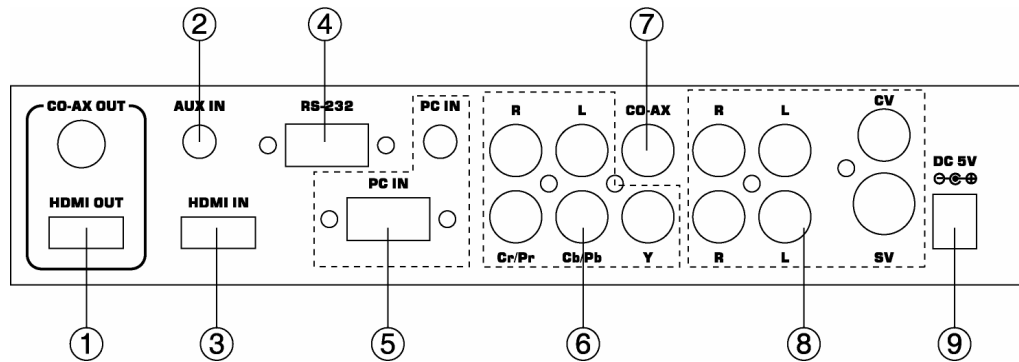
## 3. Operation Control

### Front Panel



1. Power switch and LED indicator (LED will illuminate when power is turned on)
2. Remote control sensor
3. Input select/Indicators:  
Press the desired button (CV, SV, Comp, PC, HDMI) to select the input source and the LED will illuminate to indicate which input source is selected and routed to the display
4. Press the menu button to bring up the OSD operation menu
5. When in the OSD use these buttons to move up and down
6. Use the enter button to confirm the selection when using the OSD

## Rear Panel



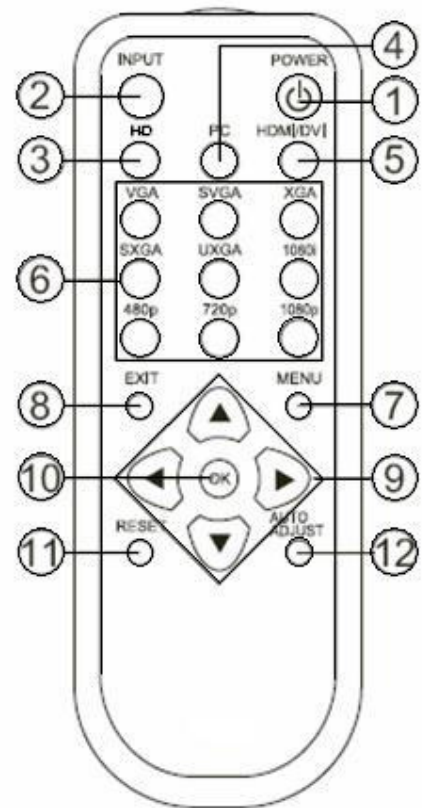
1. **HDMI & CO-AX Out:**  
Connect the HDMI output port to the HDMI input port of your display. Connect the Coaxial output port to an external amplifier
2. **Aux Input Port:**  
When using the HDMI input port with DVI, connect the audio from the DVI device to the Aux input port
3. **HDMI Input:**  
Connect your HDMI sources such as DVD player or set top box to these inputs
4. **RS-232 Port:**  
This port is for firmware update only
5. **PC in:**  
Connect your VGA cable from your PC to the PC in port and connect the stereo jack from your PC to the PC in audio port
6. **Y Cb/Pb Cr/Pr Video and L/R Audio Input:**  
Connect the Y Cb/Pb Cr/Pr (Component) RCA input ports to the Component output port of your video source equipment such as DVD player or Set-Top-Box. Connect the L/R audio input ports to the audio output port of your audio source equipment
7. **CO-AX Input:**  
The CO-AX port is for digital audio input and can be used to combine with each video input signals from CV/SV/COMP/PC/ HDMI ports. Once connected, please use the Audio Source Selection in the OSD menu to select between Coaxial (S/PDIF) or other audio source
8. **CV / SV and L/R Audio Input:**  
Connect the Composite or S-Video input port to the Composite or S-Video output port of your video source equipment such as DVD player or Set-Top-Box. Connect the L/R audio input ports to the audio output port of your audio source equipment
9. **Power:**  
Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet

## 4. OSD Operation

1 <sup>st</sup> Tier Option	2 <sup>nd</sup> Tier Option	Adjustment
VIDEO	- PICTURE MODE	USER / STANDARD / VIVID / MOVIE
	- CONTRAST	0 ~ 100 of Contrast Level
	- BRIGHTNESS	0 ~ 100 of Brightness Level
	- HUE	0 ~ 100 of Hue Level
	- SATURATION	0 ~ 100 of Saturation Level
	- SHARPNESS	0 ~ 100 of Sharpness Level
	- SCALE	OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN / FULL
	- NR	LOW / MIDDLE / HIGH / OFF
	- EXIT	Back to the 1 <sup>st</sup> Tier
	COLOR	- COLOR TONE
- RED		0 ~ 100 of Red Color Level
- GREEN		0 ~ 100 of Green Color Level
- BLUE		0 ~ 100 of Blue Color Level
- EXIT		Back to the 1 <sup>st</sup> Tier
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
OSD	- HPOSITION	0 ~ 100 of OSD Horizontal Position
	- VPOSITION	0 ~ 100 of OSD Vertical Position
	- TIMER	0 ~ 100 of OSD Show Time (sec.)
	- TRANSP	0 ~ 100 of OSD Transparent Level
	- EXIT	Back to the 1 <sup>st</sup> Tier
AUDIO	- SOURCE	HDMI / L/R / COAXIAL
	- DELAY	OFF / 40MS / 110MS / 150 MS
	- SOUND	ON / MUTE
	- EXIT	Back to the 1 <sup>st</sup> Tier
INFORMATION	-	SOURCE (Input interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close the OSD Menu

## 5. Remote Control

1. **POWER:**  
Press the button once to power on the unit.  
Press again to enter standby mode.
2. **INPUT:**  
Press the button repeatedly to toggle through the various input sources.
3. **HD Input:**  
Press the button to directly select component input.
4. **PC Input:**  
Press the button to directly select PC input.
5. **HDMI/DVI Input:**  
Press the button to directly select HDMI (or DVI) input.
6. **Output Resolution:**  
Press any one of the buttons to directly select output resolution. For other output resolutions that are not covered by these buttons please enter OSD Menu to select them.
7. **MENU:**  
Press the button to bring up the OSD main menu page.
8. **Exit:**  
Press the button to exit from a sub menu or main menu.
9. **Up/Down/Left/Right:**  
Press the Up/Down button to move the highlight bar to your desired parameter during the OSD operation. Press the Left/Right button to increase/decrease the setting value of a selected parameter.
10. **OK (Enter):**  
Press the button to confirm your selection.
11. **Reset:**  
Press the button to reset the unit's firmware setting to the factory default value.
12. **Auto Adjust:**  
Press the button to optimize the position of the picture (picture centering) on the screen.

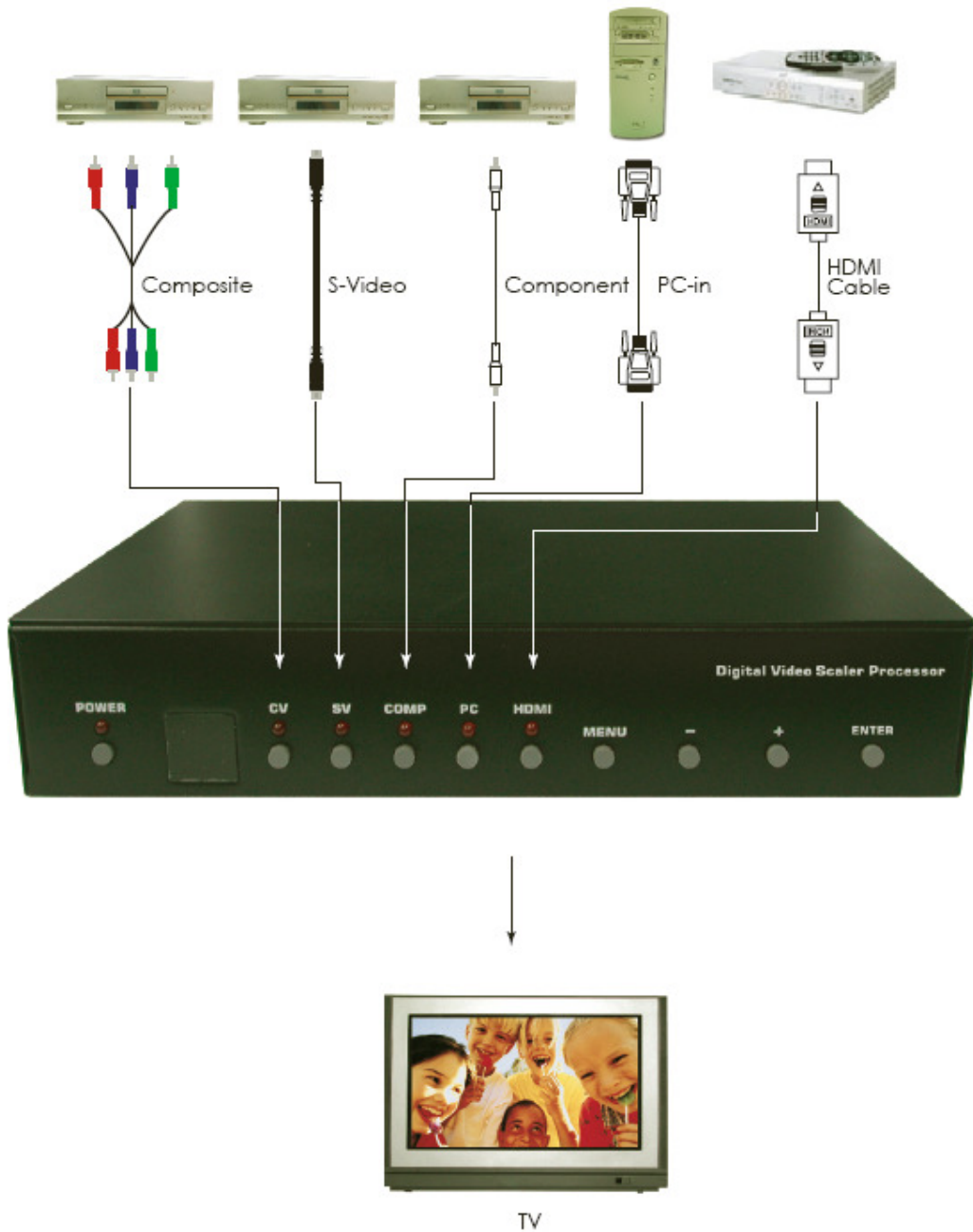


## 6. Specifications

- Frequency bandwidth: 1.65Gbps (Single Link)
- Input Ports:
  - Composite & L/R audio
  - S-Video & L/R audio
  - Component (3 RCA) & L/R audio
  - PC D-Sub (15-pin) & 3.5mm Jack
  - HDMI & 3.5mm Jack (for DVI)

- Coaxial (S/PDIF)
- Output Ports:
  - HDMI
  - Coaxial
- 5V DC power supply
- Dimensions: 215 x 154 x 47 (WxDxH)
- Weight: 1Kgs

**7. Connection & Installation**



## **CE/FCC/WEEE/Statement**

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### **CE Statement**

This device complies with the European Regulations for Electromagnetic Compatibility (EMC) of the European Union and it is equipped with the CE mark. This unit has to be used with high quality shielded connection cables. Only if these high quality shielded cables are used it can be sure that the EMC compatibility is not adversely influenced.

### **FCC Statement**

Shielded cables must be used with this equipment to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

### **FCC Warning**

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 technician for help

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



**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 Richtlinie 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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