geratech®

EGE-DSCA-VG-CV

PC to SV/CV Scaler

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VR0	07/02/13	Preliminary Release

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1. INTRODUCTION

The PC to Video scan converter box is designed to convert a variety of analog computer images, from VGA to WUXGA, to interlaced NTSC or PAL video. With frame rate conversion and Overscan / Underscan features that allows users to view PC source on the Composite and S-Video monitor without image cutting off.

2. APPLICATIONS

- Video conference
- Business presentation
- Lecturing room

3. PACKAGE CONTENTS

- PC to Video Converter box
- 5V DC power supply adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

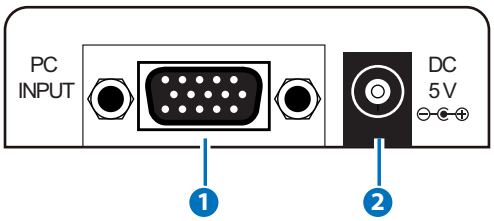
- Input source equipment such as PC and output to Composite and S-Video monitor, Projector or TV.

5. FEATURES

- Automatically detects and down converts the incoming PC images to NTSC or PAL
- Supports high resolution PC input timing from VGA to WUXGA
- Scale down PC video to Composite/S-Video
- Switch between NTSC/PAL
- Image Overscan/Underscan selection
- Supports ADC conversion

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



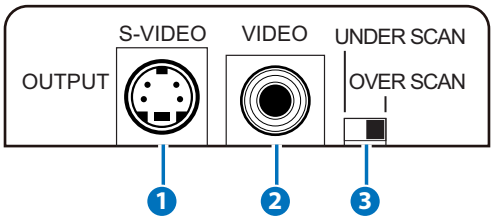
1 PC INPUT

Connect to the source equipment such as computer with D-Sub 15pin cable.

2 DC 5V

Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet.

6.2 Rear Panel



1 S-VIDEO OUT

Connect the S-Video output port to the S-Video input port of analog monitor, Projector or TV.

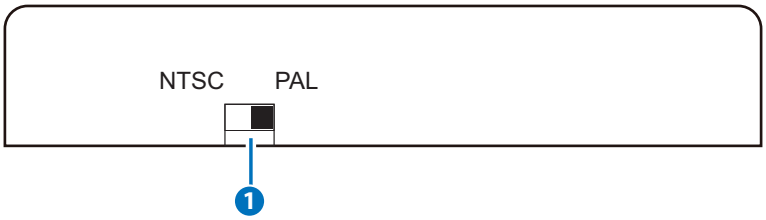
2 VIDEO OUT

Connect the Composite Video output port to the Composite Video input port of analog monitor, Projector or TV.

3 UNDERSCAN /OVERSCAN

Switch in between the Underscan/Overscan of the output image especially when connecting to different monitor/TV.

6.3 Side Panel

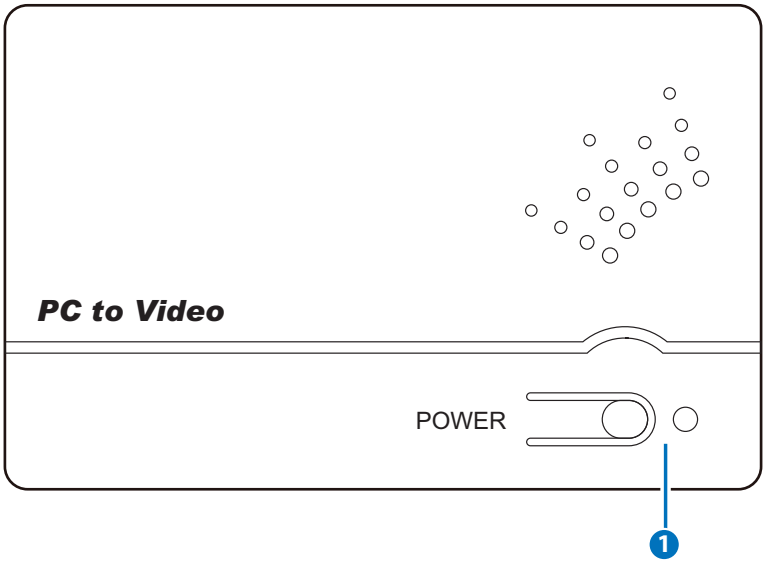


1 NTSC/PAL Switch

Switch the output display image between NTSC or PAL system. The device will auto adjust the output image including the size, phase and position and while adjusting the power LED will blink.

Note: *Source input signal must have a full screen image in order to allow the auto adjustment function to perform successfully.*

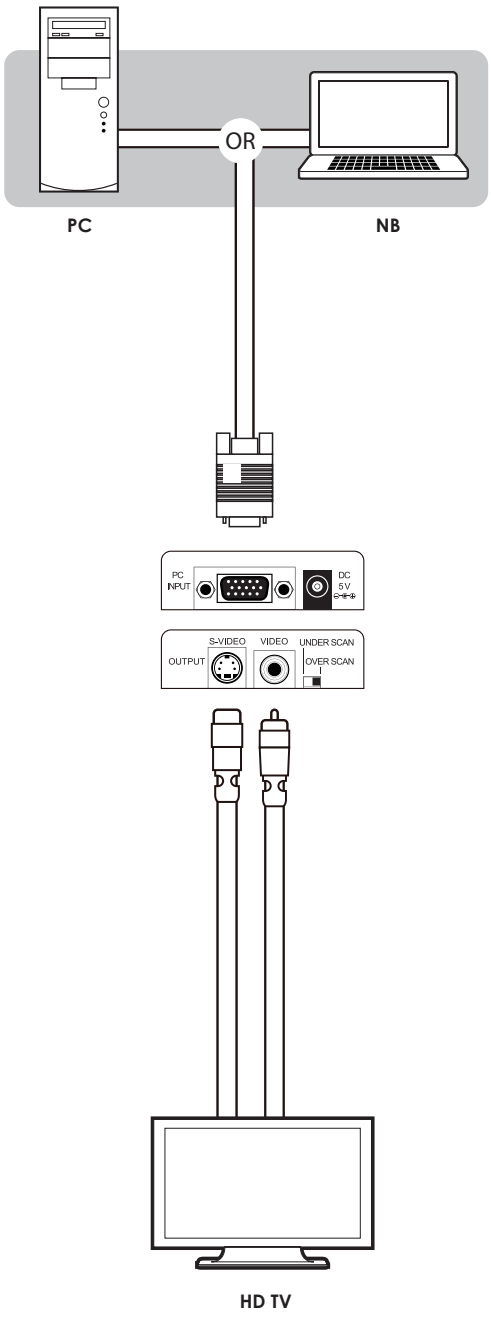
6.4 Top Panel



1 POWER & LED

Press this button to switch ON the device and the LED will illuminate in green or set it to standby mode and the LED will turn red.

7. CONNECTION AND INSTALLATION



8. SPECIFICATIONS

Input port	1 x PC
Output ports	1 x Composite Video, 1 x S-Video
Input Resolution	PC: 640x480 = VGA@60, 72, 75, 85 720x400@70, 576p, 800x600 = SVGA@56, 60, 72, 75, 85 1024x768 = XGA@60*, 70*, 75, 85 1152x864 = MAC@70, 75, 85 1280x720@25,30,50*,60,60cvt 1280x768 = WXGA@60RB, 60* 1280x800 = WXGA@60RB, 60, 75 1280x960 = @60, 85, 1280x1024 = SXGA@60, 75, 85, 60cvt* 1366x768 = WXGA@60RB, 60 1440x900 = WXGA@60RB, 60, 75 1600x1200 = UXGA@60 1680x1050 = WSXGA+@60RB, 60 1920x1080@24,25,30,50,60 1920x1200 = WUXGA@60RB
CV/SV Output Resolution	NTSC/PAL
ESD Protection	Human body model:
	±8kV (air-gap discharge)
	±4kV (contact discharge)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions	64mm(W) x 113mm(D) x 26mm(H)
Weight	90g
Chassis Material	Plastic
Silkscreen Color	Gray
Operating Temperature	0˚C ~ 40˚C / 32 ˚F ~ 104 ˚F
Storage Temperature	-20˚C ~ 60˚C / -4 ˚F ~ 140 ˚F
Relative Humidity	20 ~ 90% RH (non-condensing)
Power Consumption	5W (Max)

* Under auto adjust image may occure with interfering, resending the signal or re-power the device may improve the issue.

9. ACRONYMS

ACRONYM	COMPLETE TERM
ADC	Analog-to-Digital Converter
NTSC	National Television System Committee
PAL	Phase Alternating Line
VGA	Video Graphics Array
WUXGA	Widescreen Ultra eXtended Graphics Array

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