Component & PC to Composite Video Scan Converter - **ID# 998**

Operation Manual

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Introduction

The Component & PC to Composite Video Scan Converter is designed to down scale Component and PC VGA signals to an analog Composite Video NTSC or PAL signal. Supporting SD/HD Component input from 480i/p to 1080i/p and PC resolutions VGA up to WUXGA@60hz, this scan converter scales down to either SD PAL or NTSC video for CV (yellow plug) connection to SDTV's. This allows for newer technology equipment to be connected to older style TV's. With many functions such as 3D noise reduction, frame rate conversion (PAL/NTSC), adaptive contrast enhancement , overscan & underscan, aspect ratio selection, OSD menu control and no software required, this unit is ideal for commercial or private home use.

The Component & PC to Composite Video Scan Converter uses a standard 15/15 pin D-sub cable or a 15 pin D-sub to 3 RCA Plug cable for connection to the source equipment. Use a yellow plug RCA cable for connection from the converter to the Composite Video input of your TV. Audio (L/R red and white) is connected directly from the source audio output to the TV's CV audio input. Power is supplied from a 5vDC source. LED light indicates status of power and output PAL or NTSC video signal.

NOTE:

• Not support interlace source signal conversion between 50/60Hz
• Not support 480i and 1080i@60Hz to PAL frame rate conversion
• Not support 576i and 1080i@50Hz to NTSC frame rate conversion

Applications

• Security camera display or DVD/Game Console
• Displaying Component or PC signal on the CRT display
• Displaying Component or PC signal on the LCD display

System Requirements

Input source equipment such as VGA/Component camera (RGBHV/YPbPr) signal with D-Sub 15pin or component adapter cable and output to TV with CVBS input jack and RCA connection cable.

Features

• Converts video signal from PC/Component source to NTSC or PAL signal
• Accepts a wide range of Component input resolution from 480i/p to 1080i/p@60Hz and PC from VGA to WUXGA@60RB
• 3D noise reduction in both temporal and spatial domain
• Frame rate conversion (PAL/NTSC)
• Adaptive contrast enhancement
• OSD Display
• Overscan and underscan adjustment
• Phase and Aspect adjustment
• No software installation require
• Compact and elegant design

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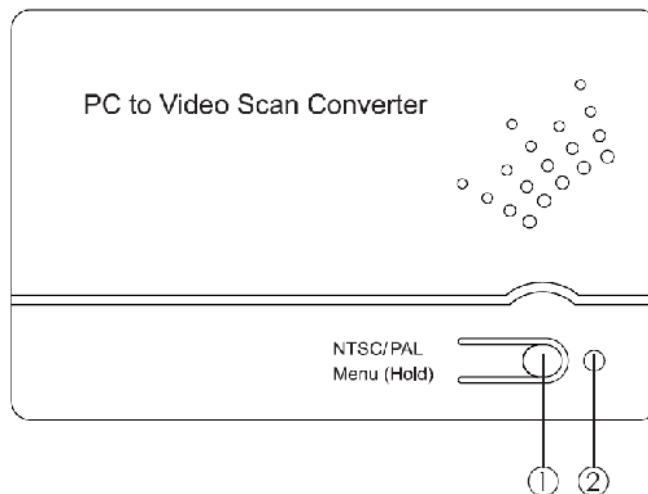
1. MENU Button (Hold): Press this button for 1 second to bring up the OSD which will display the input timing and output TV system information. While the OSD is still displaying press the button again for 5 seconds to switch to second tier OSD menu where changes can be made for e.g. output TV system from NTSC to PAL or from PAL to NTSC, Overscan, Underscan, Aspect ratio etc. (Press the button to sequentially select the desired parameter to be set.)

2. Power LED: This LED will illuminate in RED when the power supply is connected.
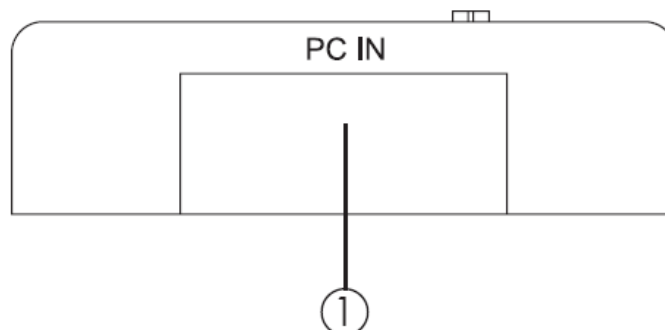
1. PC IN: Connect to source equipment such as PC, laptop or digital camera with a D-sub 15pin output using a standard 15 pin D-sub VGA cable.

1. Component In: Connect to source equipment such as DVD/VCR/PVR player with a D-sub 15 pin to 3 RCA cable.

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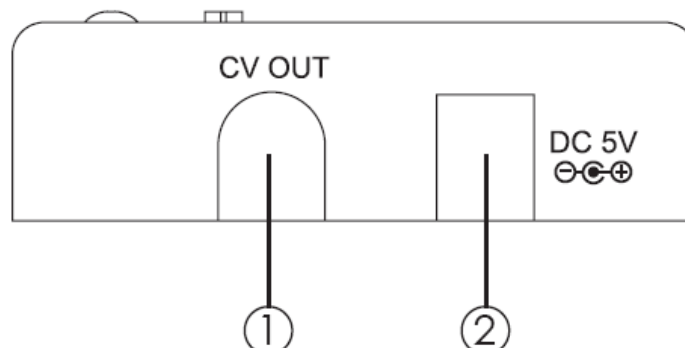
1.CV OUT: Connect with display TV or monitor with RCA cable for output image display.

2. 5v DC: Plug the 5V DC power supply into the unit and connect the adapter to AC wall outlet.
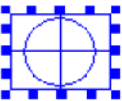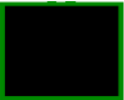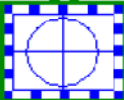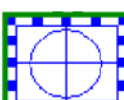
OSD Menu
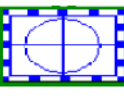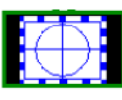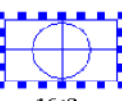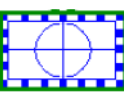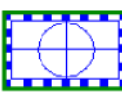
IN	640 x 480 (Input Timing)	Press the Menu button once to operate the OSD to display the Source and Sink(monitor) information.
OUT	NTSC (Output TV System)	

NTSC		TV System Output
PAL		TV System Output
UNDERSCAN 1		**Refer to diagram 1**
UNDERSCAN 2		
OVERSCAN		
PHASE ADJ	0~31	Phase adjustment's range is from 0 to 31 and is for blurry image display and/ character jiggle onscreen
ASPECT ADJ	Full Screen	To allow the image to fill the screen of the TV **(Diagram 2)**
	Letterbox	To display in wide-screen format. **(Diagram 2)**
	Pan and Scan	Crops wide-screen film images to better display in 4:3 ratio **(Diagram 2)**
	Auto TV 4:3	Allows the device to auto detect input aspect ratio of 4:3 **(Diagram 2)**
	Auto TV 16:9	Allowing the device to auto detect input aspect ratio of 16:9 **(Diagram 2)**

Diagram 1.

Source   TV   Underscan1   Underscan2   Overscan

Diagram 2.

Source TV \ Aspect Adj		Full Screen	Letterbox	Pan&Scan	Auto TV 4:3	Auto TV 16:9
4:3	4:3	●	X	X	●	X
4:3	16:9	●	X	●	X	●
16:9	4:3	●	●	X	●	X
16:9	16:9	●	X	X	X	●

Support Input Timing

640x480	60,72,75,85Hz	PC Timing
720x400	70Hz	
800x600	56,60,72,75,85Hz	
1024x768	60,70,75,85Hz	
1152x864	70,75,85Hz	
1280x720	59,60Hz	
1280x768	60rb,60Hz	
1280x800	60rb,60Hz	
1280x960	59,60Hz	
1280x1024	59,60Hz	
1366x768	60rb,60Hz	
1440x900	60rb,60Hz	
1600x1200	60Hz	
1680x1050	60rb,60Hz	

1920x1080	59,60Hz	PC Timing(cont)
1920x1200	60rb	

480i	60Hz	HD Timing
480p	60Hz	
576i	50Hz	
576p	50Hz	
720p	50,60Hz	
1080i	50,60Hz	
180p	50,60Hz	

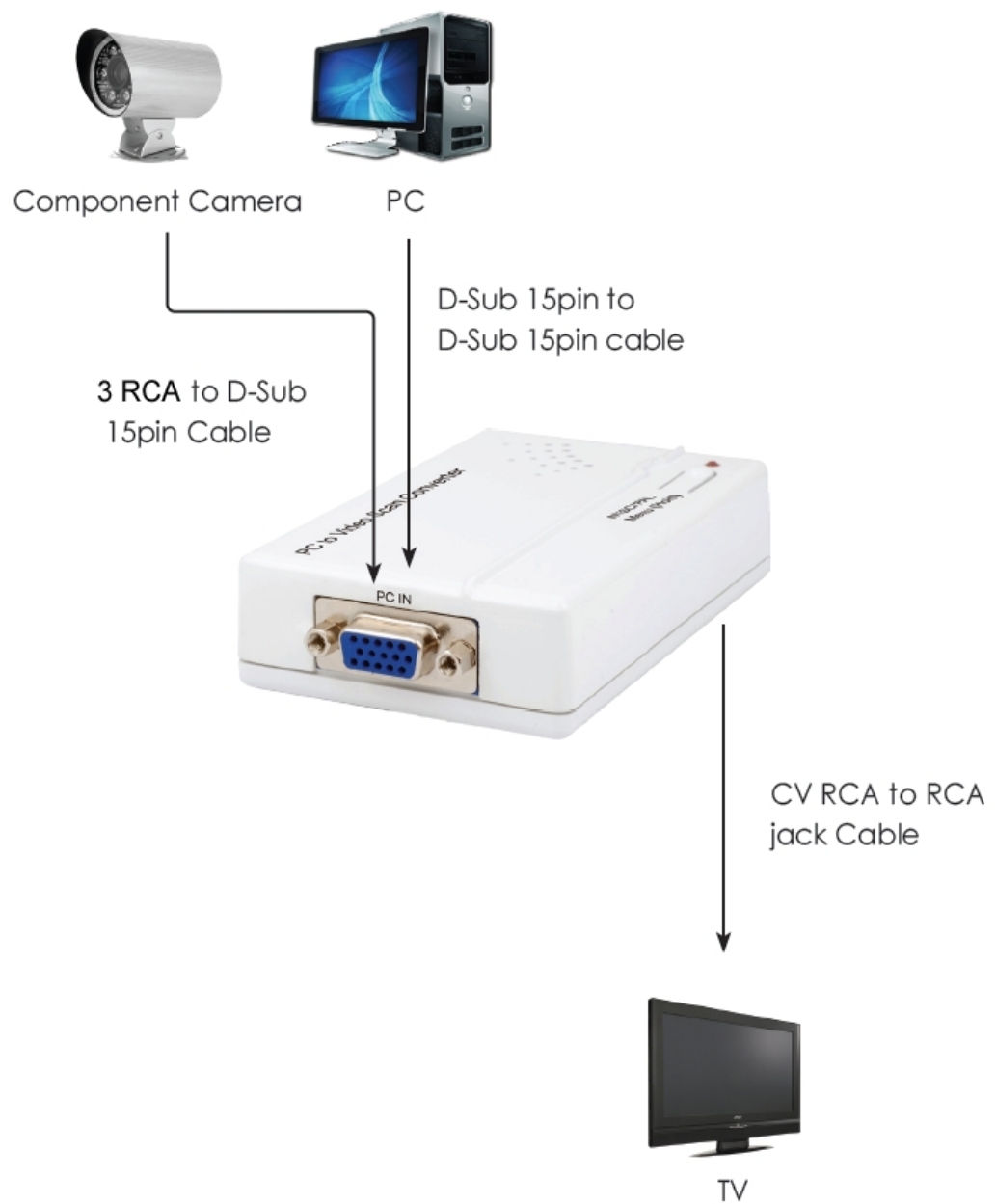*Note:* When the input timing is not supported, the OSD will display **"IN Not Support"**.

Not support interlace source signal conversion between 50/60Hz
Not support 480i and 1080i@60 to PAL conversion
Not support 576i and 1080i@50 to NTSC conversion

Connection

Component Camera   PC

D-Sub 15pin to
D-Sub 15pin cable

3 RCA to D-Sub
15pin Cable

PC IN

CV RCA to RCA
jack Cable

TV

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Specifications

Input Port	1 x VGA 15 pin D-sub
Output Ports	1 x RCA CVBS
Output Video	NTSC/PAL
ESD Protection	Human body model:
	$\pm$ 8kV (air-gap discharge)
	$\pm$ 6kV(contact discharge)
Power Supply	5V DC / 1A linear power adapter or 5V / 1.2A switching power adapter (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	64 (W) x 104 (D) x 26 (H)
Weight (g)	120
Chassis Material	Plastic
Silkscreen Color	White
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	3W