

# Dual PAL or NTSC Video to RGB Converter (One way) with 12V Relay Switch



## Operation Manual

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## **Introduction**

This unit converts video signals from NTSC/PAL/SECAM into RGB/Sync or RGsB (Sync On Green) to allow video to be viewed on most LCD screens without any interference.

## **Precautions**

1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open space that has good ventilation.
7. If the unit is acting abnormally keep the unit away from TV or other electronic equipment.
8. Unplug the unit from the power supply when it is not to be used for a long period of time.

## **Features**

- Digital decoding and encoding ensures best conversion quality.
- Converts NTSC/PAL/SECAM composite video to RGB/Sync or RGsB (Sync on Green).
- Input System auto detecting.
- RGBs input loop through.
- Sync Polarity switchable between positive and negative.
- Output brightness adjustable.

## Operation Controls and Functions

### Front Panel



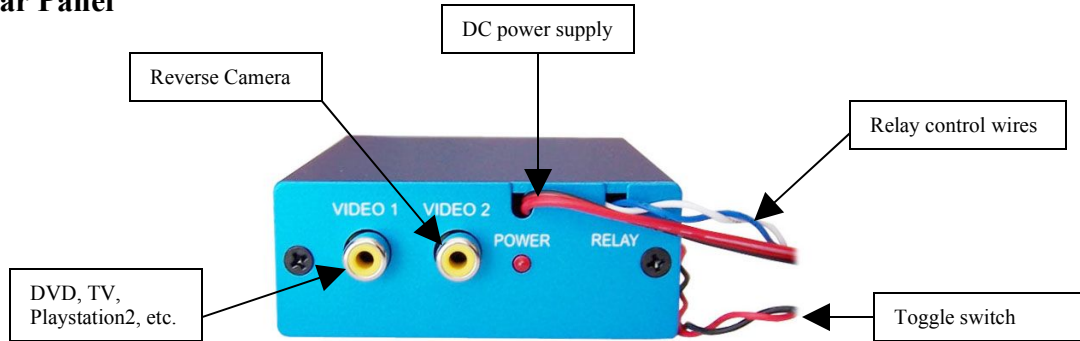
1. **- and + buttons-** Use these two buttons to decrease or increase the brightness.  
**Reset-** Simultaneously pressing the - and + buttons will return the brightness value to its factory default value.
2. **RGBs/RGsB Switch-** This button is used to select between RGBs or RGsB (Sync On Green).
3. **9-Pin D Female Connector Configuration-**

<b>Pin 1</b>	Ground (Grey)
<b>Pin 2</b>	Sync of source 1 (Brown)
<b>Pin 3</b>	Red out (Red)
<b>Pin 4</b>	Red in from source 1 (Yellow)
<b>Pin 5</b>	Green in from source 1 (Green)
<b>Pin 6</b>	Green out (Blue)
<b>Pin 7</b>	Blue out (Purple)
<b>Pin 8</b>	Blue in from source 1 (Orange)
<b>Pin 9</b>	Sync out (Black)
<b>Source 1</b>	Loop through RGB/S Input
<b>Source 2</b>	Video Input

4. **Toggle switch to switch between convert and RGB bypass-**

<b>Output Select</b>	
Open	Convert
Short	Bypass

## Rear Panel



- 1. DC Power supply input port-** DC 12V centre positive.
- 2. Video 1:** This input can be connected to your DVD player, TV tuner or gaming console and converted to RGB output to the LCD screen.  
**Video 2:** This input is connected to your reverse camera and converted to RGB output to the LCD Screen.
- 3. Relay (through 12V/GND control wires)-** When this control wire is connected to 12 Volt it forces Video 2 input to be converted to RGB out, regardless of the setting of the toggle switch. When this control wire has no voltage applied to it, the setting of the toggle switch will dictate whether Video 1 or RGB bypass will output.
- 4. Toggle Switch-** This switch selects between the 2 video inputs to be displayed on the LCD screen.

## In Car Functionality

- To view normal navigation system on the car monitor, have the toggle switch turned off. The navigation system will bypass both the video inputs.
- To view videos from your DVD player, watch TV or to play games with your gaming console on the car monitor, turn the toggle switch on and Video 1 will be enabled and will have priority over the navigation system.
- To view the reverse camera on the car monitor, the relay control wires will be connected when you put the car in reverse. This will display the reverse camera on the car monitor regardless of the toggle switch setting as Video 2 will now have the highest priority.

## Specifications

<b>Input</b>	Video Input- 1Vp-p 75ohm RCA jack x 1. RGBs Input- Pass through.
<b>Output</b>	RGB: 0.7 Vp-p 75ohm 9-Pin D Female connector. Sync: 3Vp-p positive or negative polarity.
<b>Power Supply</b>	DC 12V centre positive.
<b>Dimensions</b>	94mm(D) x 77mm(W) x 30(H)mm.
<b>Accessory</b>	One set of D-Sub 9-pin RGB bare wire user manual.
<b>Weight</b>	0.4 Kgs.