

Video (PAL or NTSC) to RGB Converter with 12V Relay switch for reverse camera



Operation Manual

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Introduction

This unit allows video signals from NTSC/PAL/SECAM to be converted into RGB/Sync or RGBsB (Sync on Green) in order to allow video to be viewed on most in-car LCD screens.

Precautions

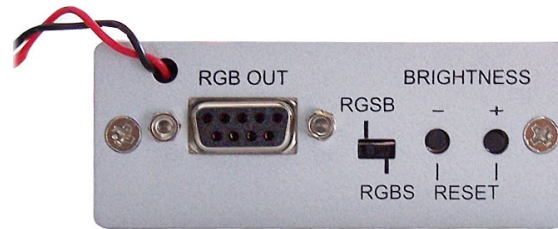
1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open 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 RGBsB(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/reset button-** The – and + buttons are used to decrease and increase the brightness level respectively. Simultaneously pressing the – and + buttons returns brightness to its factory default value.
2. **RGBs/RGsB switch-** This button allows the user to select between RGsB (Sync on Green) or RGBs.
3. **9 Pin D Female connector-**
RGB Out: DB9 Pin configuration
Gray: Pin 1- GND
Brown: Pin 2- Sync of source 1
Red: Pin 3- Red out
Yellow: Pin 4- Red in from source 1
Green: Pin 5- Green in from source 1
Blue: Pin 6- Green out
Purple: Pin 7- Blue out
Orange: Pin 8- Blue in from source 1
Black Pin 9: Sync out
Source 1: Loop through RGB/S input
Source 2: Video Input
4. **Toggle switch-** Toggle between convert and RGB bypass.

Rear Panel



1. **DC power supply input-** This is the power supply input port.
2. **Video input-** This is the Composite Video input port.
3. **Control wires-** When the control wire is connected to 12 Volt, it forces the unit to go into convert mode. When the control wire has no voltage apply to it, the toggle switch will dictate the convert/bypass mode.

Connection and Installation

- Connect the RGB out port to your RGB device using a 9 Pin D female connector.
- Set the switch to either RGBs or RGsB.
- Use the - and + to adjust the level of brightness to the desired level.
- Connect the Video input port to you video device using a Composite Video RCA jack.
- Connect the control wire. If the control wire is connected to 12V the unit will be automatically forced to go into convert mode. If there is no voltage applied to the control wise, then the toggle switch will decide the convert mode.
- When all the connections are complete ensure that the power supply is connected to the power socket.

Specifications

Input	Video input- 1Vp-p 75 ohm RCA Jack RGBs input: Pass through
Output	RGB: 0.7 Vp-p 75 ohm 9-pin D female connector. Sync: 3 Vp-p positive or negative polarity
Power Supply	DC 12V center positive
Dimensions	94mm (D) x 77mm (W) x 30mm (H)
Accessory	One set of D-Sub 9 Pin RGB bare wire and one set of 2-wire power.
Weight	0.4 Kg