PAL or NTSC Video to PAL or NTSC RGB Digital Converter

Operation Manual

Please browse our online catalogue to view our full product range.
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Introduction

This unit accepts a range on composite video inputs, from NTSC, N4, PAL M, PAL N, or SECAM, and converts to either NTSC 3.58 or PAL (through the jumper setting on the PCB). It is ideal for use in car applications.

Precautions

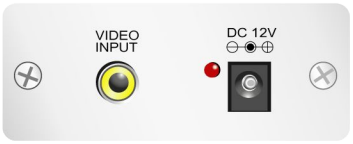
1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open 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

- Includes a built in colour bar.
- Input auto detection, which allows the unit to automatically recognise the video input.
- Digital conversion from input TV signals of NTSC, N4, PAL, PAL M, PAL N, SECAM, to output signals of NTSC-60Hz, PAL-50Hz.
- Digital line (525 ~ 625 lines) and field (60 ~ 50 field) conversion.
- 6 M bit field memory.
- Built in 12V DC to DC inverter, ideal for use in car application.

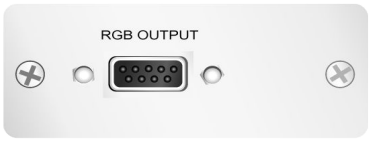
Operation and Control Functions

Front Panel



1. **Video Input-** This is the composite video input port. The video input will be automatically recognized by the unit and convert to either NTSC or PAL output depending on the jumper setting on the PCB. A composite RCA connector cable is used to connect the converter to your output device.
2. **Power LED-** The power LED will illuminate when the unit has been turned on.
3. **Power- DC 12V-** This is the power supply input port. It is to be used with the power pack supplied. It connects to car battery output.

Rear Panel



1. **RGB Output-** This is the RGB output port. A 9-pin D Sub connector cable is used to connect the converter to your output device.

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Connection and Installation

- Using the appropriate connector cable connect the video input port to your output device. The video input will be automatically recognized by the unit and convert to either NTSC or PAL output depending on the jumper setting on the PCB.
- Using a D sub-9 connector cable connect the RGB output port (number 1 on rear panel) to your device (TV or LCD display unit).
- The DC adaptor power unit connects to car battery output.
- The power LED will illuminate when the unit has been turned on.

Specifications

Input systems	NTSC, N4, PAL, PAL M, PAL N, SECAM
Video Input	1 Vp-p 75ohm RCA terminal
RGBS Output	RGB 0.7 Vp-p, SYNC: H + V 0.3 Vp-p 9 Pin D terminal
Output TV Systems	NTSC-60Hz, or PAL 50-Hz (through switch setting on PCB)
Sampling frequency	Y (13.5 MHz), R-Y (6.75 MHz), B-Y (6.75 MHz)
Digital Code Bit	R: 8 bits G: 8 bits B: 8 bits
Line	525 ~ 625
Field	60 ~ 50
Power	DC 12V 300mA power wires