

Video to RGB Converter with RGB by-pass switch ID# 840



Operation Manual

Introduction

Video to RGB Converter with RGB by-pass switch allows Composite video signals from NTSC or PAL source to be converted into RGB H+V (Combined Sync) or RGBsB (Sync On Green) to allow video to be viewed on most CGA 15kHz monitors.

Input a Composite Video signals from any source to the CV In of the converter and output 15kHz (CGA) RGB Combined Sync (RGB H+V) or RGBsB Sync on Green (SoG) for connection to your 15kHz CGA monitor. At the same time, also have your 15kHz Arcade Game board connected to the converter using the specially designed VGA 9 pin Twin Tail Cable Adaptor.

The cable allows for your Game Board and Monitor to be connected to the converter at all times. Use the toggle switch to select the RGB input or the CV input.

Please note that this is a one way style conversion;

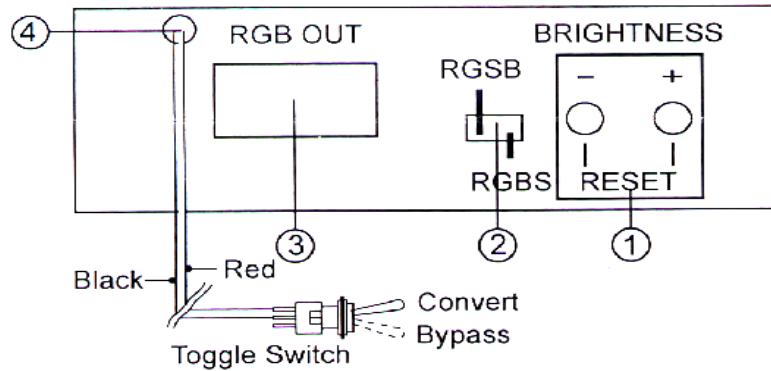
NTSC Video in = NTSC RGB (15k) Video out

PAL Video in = PAL RGB (15k) Video out

Features

- Digital decoding and encoding ensures best quality conversion.
- Converts NTSC/PAL/SECAM Composite Video (CV) to RGB H+V (combined sync) or RGBsB(Sync on Green).
- Input System auto detecting.
- RGB video input pass through.
- Sync Polarity switchable between positive and negative(internal link).
- Output brightness adjustable.

Operating Functions and Controls 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. RGB H+V/RGsB switch- This button allows the user to select between RGSB (Sync on Green) or RGB H+V(combined sync).

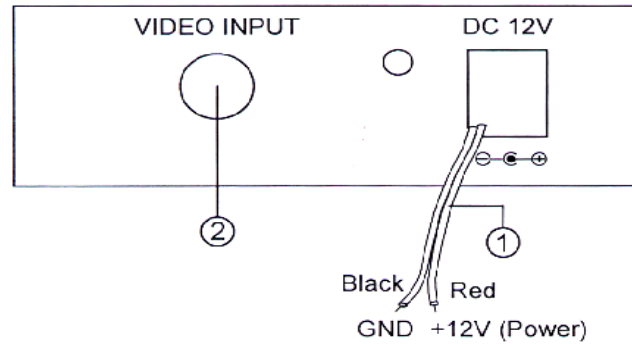
3. 9 Pin D Female connector:-

Pin No.	Wire Colour	Function
Pin 1	Grey	GND
Pin 2	Brown	Sync of source 1
Pin 3	Red	Red out
Pin 4	Yellow	Red in from source 1
Pin 5	Green	Green in from source 1
Pin 6	Blue	Green out
Pin 7	Purple	Blue out
Pin 8	Orange	Blue in from source 1
Pin 9	Black	Sync out

Source 1: Loop through RGB/S input
Source 2: Video Input

4. Toggle switch- Select between RGB Video input or CV Video input.

Rear Panel



1. **DC power supply input**- This is the power supply input port.
2. **Video input**- This is the Composite Video input port.

Connection & Installation

- Connect the RGB video source and monitor to the converter using the special VGA 9 Pin twin tail adapter cable.
(Connect wires as per VGA 9 Pin connector configuration table)
- Connect the Composite Video source to the converter using a Composite Video cable (yellow Plug).
- Set the switch to either RGB H+V or RGsB.
- Connect 12v DC Power supply and turn on.
- Use the - and + to adjust the level of brightness to the desired level.

Specifications

Input	Video input- 1Vp-p 75 ohm RCA Jack RGB H+V input: Pass through
Output	RGB: 0.7 Vp-p 75 ohm 9-pin D female connector. Sync: 3 Vp-p positive or negative polarity RGB H+V and RGsB
Power Supply	DC 12V center positive
Dimensions	94mm (D) x 77mm (W) x 30mm (H)
Accessory	VGA 9 Pin Twin Tail adapter cable User Manual.
Weight	0.4 Kg