# RGB2COMP COMP2RGB

## User Manual

Revision 1.0
February 1st, 2020

$C\epsilon$

## Introduction

The RGB2COMP and COMP2RGB are simple, high-quality transcoders for converting RGB video signals via SCART to component video signals via RCA and vice versa.
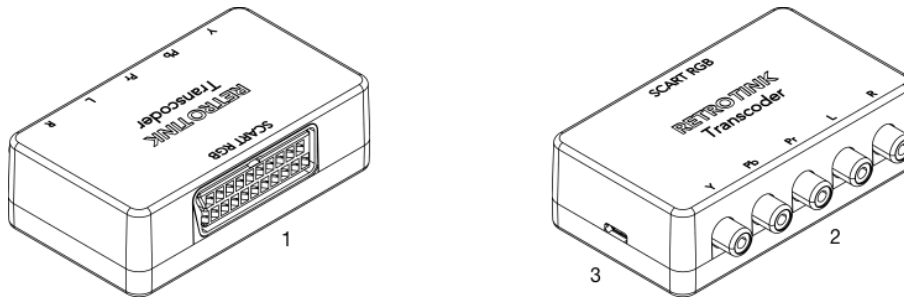
## Description

The RGB2COMP and COMP2RGB devices come in identical enclosures. The units can be distinguished by the label on the bottom of the enclosure as well as the color of the PCB. RGB2COMPs use a RED PCB. COMP2RGBs use. BLUE PCB.

RGB2COMPs accept RGBs inputs and output YPbPr.

COMP2RGBs accept YPbPr and output RGBs.

The products are uni-directionally only. Please double check your setup to make sure everything is connected correctly!

1. RGBs and stereo audio over SCART.
2. YPbPr and stereo audio over RCA.
3. microUSB power input. Connect to any microUSB power source capable of supplying 500 mA or more.

Note: The RGB2COMP has an advanced power input filtering circuit and is tolerant of virtually any USB power source. The COMP2RGB operates at a higher voltage and has a more limited power input filter and may be more sensitive to poorly regulated and/or noisy supplies.

**Quick Start**

First insert a microUSB power cable to the device. You may use any source capable of supplying at least 500 mA. For the COMP2RGB, specifically, be sure to use a high quality power supply.

Connect the SCART side for RGB and the RCA side for component video. You should now be ready to use the device!

Note: The COMP2RGB exhibits a short (~100 ms) delay when switching between SDTV and HDTV resolutions to power cycle the conversion chip. Resolution switches within standard definition modes (e.g., 240p <-> 480i) are not affected.

## Specifications

*RGB2COMP*

| Input Connections | RGBs over SCART |
|---|---|
| Sync Input | Composite video or CSYNC on SCART |
| Output Connection | YPbPr and stereo audio over RCA |
| Supported Formats | 240p, 288p, 480i, 576i, 480p, 576p, 720p, 1080i and 1080p |
| Conversion Matrix | Rec. 601 fixed |
| Latency | Effectively zero |
| Power | < 200 mA over microUSB, 500 mA PTC fuse for overcurrent protection |

*COMP2RGB*

| Input Connections | YPbPr and stereo audio over RCA |
|---|---|
| Output Connection | RGBs over SCART |
| Sync Output | 1V CSYNC, 75 ohms on SCART |
| Supported Formats | 240p, 288p, 480i, 576i, 480p, 576p, 720p, 1080i and 1080p |
| Conversion Matrix | Rec. 601 for SDTV/EDTV, Rec. 701 for HDTV, automatic detection |
| Latency | Effectively zero |
| Power | < 200 mA over microUSB, 500 mA PTC fuse for overcurrent protection |

## Disposal

If your RetroTINK malfunctions, please contact the place of purchase via e-mail or through their website to arrange repair or replacement. All RetroTINK units come with one years warranty. Outside of warranty, resellers may also offer repair services at their discretion.

If you do need to dispose of the unit, in most countries you can recycle the unit for free at your local recycling centre. To find your nearest centre in the UK, visit the Recycle More website at http://www.recycle-more.co.uk and type in your postcode. In the Republic of Ireland, visit https://www.weeeireland.ie/household-recycling/where-can-i-recycle/.

If you live outside of the UK or ROI, please check with local authorities or contact us to arrange for a return of your unit.