

# SA3-RGB

Item ref: 153.740UK

## Sound Activated RGB LED Tape Controller

User Manual



Version 1.0



Caution: Please read this manual carefully before operating  
Damage caused by misuse is not covered by the warranty

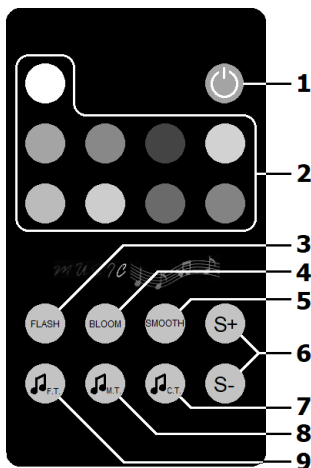
### Introduction

Thank you for your choice of SA3-RGB controller to connect with your low voltage multi-colour LED installation. This accessory has been designed to give dynamic and sound-activated control to the light output, adding colour and life to architecture, signage or furniture. Please read this manual to get the best results from your controller and keep for future reference.

The SA3-RGB controller is supplied with a 4-pin lead to connect to RGB LED tape which is fed from the controller via a removable euro-block connector with 4 screw terminals. Ensure that the R, G, B and V+ connections are matched to the LED tape and swap leads in the terminals of the euro-block if necessary.

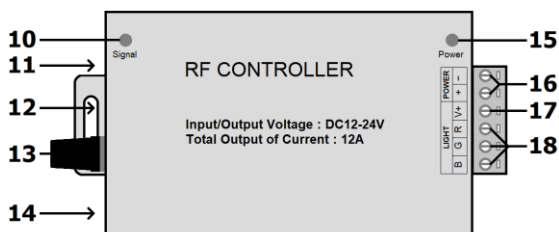
Note: the SA3-RGB controller can operate with 12V or 24V LED tape up to 4A maximum output per channel red / green / blue (12A total). For longer runs of RGB tape with higher current requirements, RGB amplifiers with additional power supplies will be necessary.

## Handheld RF remote control layout



1. Power on/off
2. Static colour selection -100%/50%/25%/12%/6%
3. Colour flash effect
4. Bloom 3-colour scroll
5. Smooth 7-colour scroll
6. Speed +/- adjustment
7. Sound activated colour trigger (C.T.) scrolling effect
8. Sound activated morph trigger (M.T.) colour fade
9. Sound activated flash trigger (F.T.) colour flash

## Main control unit layout



10. Signal indicator
11. Internal microphone
12. 3.5mm audio input
13. Mic. Sensitivity control
14. DC power input jack
15. Power indicator
16. DC power input terminals
17. + Voltage connection
18. R, G, B - connections

## Setting up

Connect the +V, R, G, B output to the LED tape using the connection lead provided, ensuring that all terminals are fed to the correct connections on the tape.

Connect 12Vdc or 24Vdc power to the DC5521 jack input (14) *or* DC input terminals (16), ensuring that both power supply and SA3-RGB controller have enough current capacity to operate the connected tape.

Remove the plastic tab from the handheld RF remote control unit to activate the battery (Button cell CR2025).

Power up the main control unit from the 12Vdc or 24Vdc power supply and if the LEDs are not lit, press the power on/off key on the remote control (1)

The POWER LED (15) will be lit and the SIGNAL LED (10) will flash when control is received from the remote control handset.

Select static colours by pressing one of the colour keys on the remote control (2).

Repeated pressing of a colour key steps through 5 dimming levels of that colour.

100% → 50% → 25% → 12% → 6% → 100% → 50% → 25% → 12% → 6% → ...

Preset auto sequences can be selected by pressing FLASH, BLOOM or SMOOTH keys (3, 4, 5)

The speed of the selected preset can be adjusted using the S+/S- keys (6)

The SA3-RGB controller has 3 sound activated modes.

Press the F.T. key (9) for a sound activated colour flash effect

Press the M.T. key (8) for a sound activated colour morph effect

Press the C.T. key (7) for a sound activated colour scroll effect

Sound activated presets will be triggered by sound captured by the internal microphone (11)

Alternatively, a line level audio source may be connected to the 3.5mm audio input jack (12)

Sound activated triggering is adjusted using the rotary sensitivity control (13)

To switch off the LEDs temporarily, press the on/off key (1). Press again to switch back on.

If not being used for long periods, it is better to switch off the 12Vdc or 24Vdc power supply.

## Specifications

Power supply	12-24Vdc (12A max)
Power connection	DC5521 jack or screw terminals
Battery: remote	CR2032 lithium cell (supplied)
Carrier frequency	433.92MHz
Audio in connector	3.5mm stereo jack (line level)
Output	B / G / R / V+ screw terminals
Indicators	Power and signal LEDs
Dimensions: main unit	130 x 64 x 24mm
Weight: main unit	128g



**Disposal:** The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

*Errors and omissions excepted.  
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