BTC3

Item ref: 153.845UK

BLUETOOTH® CONTROLLER FOR RGB LED TAPE

User Manual

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

WARNING: This controller is intended for professional installation of single colour LED tape and should be connected by qualified personnel in accordance with electrical safety standards. Ensure that the rated load indicated is not exceeded.

Application

The BTC3 controller allows static and sequential control of RGB LED tape operating from a 6-24Vdc power supply. The maximum current load is rated at 5A per R/G/B channel (3 x 5A).

For Lyyt 12V RGB LED tape (156.720UK, 156.721UK), it is recommended to connect no more than 2 x 5m reels from the same controller. For Lyyt 24V LED tapes, up to 4 reels may be powered by the BTC3.

When connecting several 5m tapes to make a longer run, it is advised to use bypass wiring instead of connecting end-to-end to avoid noticeable voltage drop at the furthest end from the power supply. The DC connector may be cut off and the insulation stripped for bare-wire connection using terminal strip. Beyond the maximum length of tape (3 x 5A current), it will be necessary to use RGB LED amplifier/repeaters (153.771UK) to extend dimming control to additional lengths.

Smartphone control

Before remote control is possible, it is necessary to download the free app to a smartphone.

1. Go to app store (ios phone) or playstore (android) and search for "ColorEasy3 Plus"
2. Download the free application to the smartphone
3. Enable Bluetooth on the smartphone and scan for Bluetooth devices
4. The BTC3 will have a Bluetooth ID "LED-xxx", where "xxx" is its serial number
5. Connect to this device and open the ColorEasy3 Plus application

The ColorEasy3 Plus app has 3 edit screens for Static (6), Dynamic (5) and Setup (4) menus.

In Static mode, a slide bar sets the hue and a vector pane sets the saturation.

Alternatively, tapping one of the R/G/B buttons above the vector pane enters manual mode.

In this mode, individual levels for Red, Green and Blue are set by 3 roller controls.

In Dynamic mode, a list of preset pattern sequences are available to choose from.

Selecting one of these will apply the pattern to the LED tape with a slider control for speed.

In Static or Dynamic mode, settings can be saved to the BTC3 by using the Save button (3).

Tap on one of the 16 squares and the current setting will be saved to that program memory.

These programs can be recalled via the Favourites button (2) or via optional remote control.

The On/Off button (1) switches the LED tape on or off.

Pressing the Setup button switches to a screen with 3 options.

Tick the first option for automatic Bluetooth reconnection whenever in range (7).

Tick the second option to enable control by an optional WRC3 or HRC3 remote (8).

The third option is to set smooth switching from very slow to direct (9).

To pair a HRC3 or WRC3 remote to the BTC3 controller, do the following.

Power off the BTC3 controller, then reconnect power to the controller.

Within the first 5 seconds, press and hold the On/Off and Down buttons on the HRC3 or WRC3 remote.

Up and Down keys will now step through memories stored in the BTC3.

On/Off will switch the LED tape on or off, whilst keeping the last setting.

Specifications

Power supply (input/output)	6-24Vdc, 10A max.
IP rating	IP63
Bluetooth version	Bluetooth v 2.1/4.0 Class 2
HRC3 / WRC3 (optional) remote control RF frequency	433.92MHz
Dynamic programs	42 preset sequences
Internal protection	Overheat, short-circuit
Connections	DC5521 jack input + 4-pin output
Controller dimensions	90 x 20 x 10mm
Weight	29g

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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