BTD2

BLUETOOTH® DIMMER FOR
SINGLE COLOUR LED TAPE

Item ref: 153.841UK

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 BTD2 dimmer control allows on/off and static dimming of single colour LED tape operating from a 6-24Vdc power supply. The maximum current load is rated at 10A.
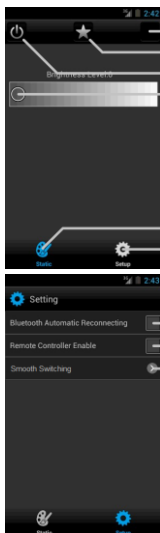

For Lyyt 12V single colour LED tape (156.705-156.718UK), it is recommended to connect no more than 5 x 5m reels from the same controller. For Lyyt 24V LED tapes, up to 10 reels may be powered through the dimmer.

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 (10A current), it will be necessary to use single colour LED amplifier/repeaters (153.770UK, 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 "ColorEasy1 Plus"
2. Download the free application to the smartphone
3. Enable Bluetooth on the smartphone and scan for Bluetooth devices
4. The BTD2 will have a Bluetooth ID "LED-xxx", where "xxx" is its serial number
5. Connect to this device and open the ColorEasy1 Plus application

The main screen in the ColorEasy1 Plus app has a sliding Brightness bar.
Moving the circle (4) along the bar will set the brightness of the LED tape.
A setting can be stored into one of 16 memories via the Save button (1).
Touch one of the 16 squares and that brightness level will be saved.
These can be recalled via the Favourites button (2).
Memories can also be accessed using optional WRC3 or HRC3 remote.
Global settings can made by pressing the Setup button (6).
The first option is for automatic reconnection whenever in range (7).
The second option is to enable control by a 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 BTD2 controller, do the following.
Power off the BTD2 controller, then reconnect power to the controller.
Press and hold the On/Off and Down buttons on the remote unit.
This must be done within the first 5 seconds from power-up.
Up and Down keys will now step through memories stored in the BTD2.
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
Dimming system	PWM constant voltage
Internal protection	Overheat, short-circuit
Connections	DC5521 jack input + output
Controller dimensions	90 x 20 x 10mm
Weight	29g

Errors and omissions excepted.
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