

Rayrun TT40 Smart and Remote Control RGB+W LED Controller User Manual

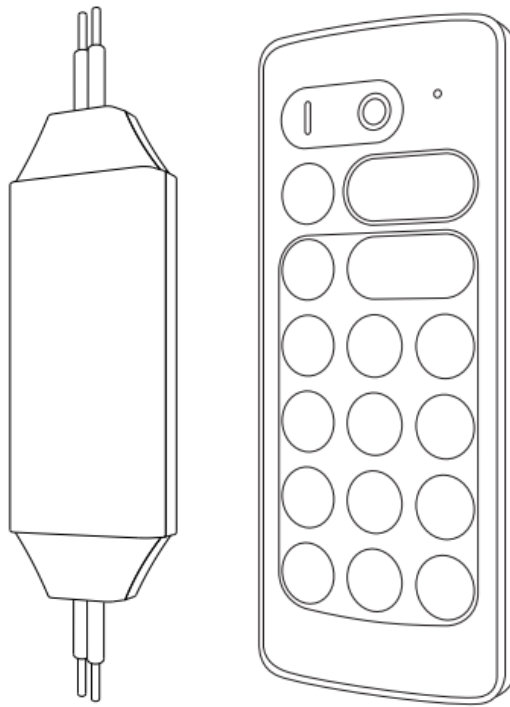
[Home](#) » [RayRun](#) » Rayrun TT40 Smart and Remote Control RGB+W LED Controller User Manual 

Contents

- [1 Rayrun TT40 Smart and Remote Control RGB+W LED Controller](#)
- [2 FUNCTION](#)
- [3 Introduction](#)
- [4 Terminal & Size](#)
- [5 Functions](#)
- [6 Operation](#)
- [7 Overheat Protection](#)
- [8 Specification](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)

The Rayrun logo, featuring the word "Rayrun" in a white, italicized sans-serif font, centered within a solid blue rectangular background.

Rayrun TT40 Smart and Remote Control RGB+W LED Controller



FUNCTION



Tuya Smart



Wireless Remote



Overheat Protection



High Power



Compact Size

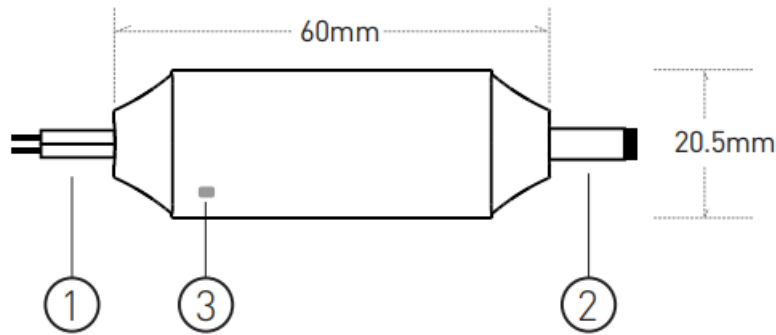


12V/24V voltage

Introduction

TT40 LED controller is designed to drive constant voltage RGB+White color LED products in voltage range of DC12-24V. It can be controlled by smart phone with Tuya smart app connection or by the stand alone RF remote controller. User can setup LED brightness, color, scene and dynamic effects with the rich function on smart phone Tuya app or the easy operation remote controller.

Terminal & Size



Power supply input

Connect positive power to the cable marked with '+' and negative to the cable marked with '-'. The controller can accept DC power from 12V to 24V, the output is PWM driving signal with same voltage level as the power supply, so please make sure the LED rated voltage is same as the power supply.

LED output

Connect to constant voltage type LED load. Connect the LED \oplus to black cable, and R, G, B, W cable to the relevant color \ominus . Please make sure the LED rated voltage is same as the power supply and the maximum load current is below the controller rated current.

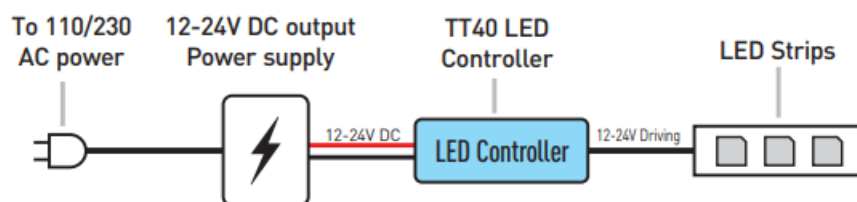
CAUTION! The controller will be permanently damaged if output cables short circuited. Please ensure the cables are well insulated to each other.

Work status indicator (optional)

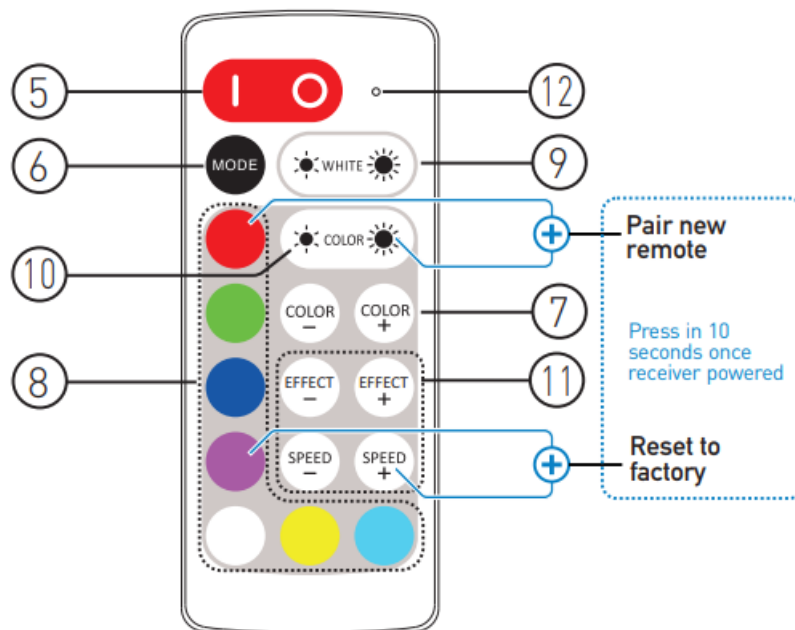
This indicator shows all working status of the controller. It displays different events as following:

- **Steady on:** Remote and Tuya smart mode.
- **Flash twice:** Tuya not connected.
- **Flash 3 times:** Over heat protection.
- **Blink:** New command received.
- **Long single blink:** Brightness or speed reach limit.

Wiring diagram



Functions



- **Turn ON / OFF**

Press 'I' key to turn on unit or press 'O' key to turn off. The power on status can be set to last status or default status from app. At last status mode, the controller will memorize the on/off status and will restore to the previous status on next power on.

- **Light mode switch**

Press this key to switch between RGB, white and RGB+White mode. In RGB mode, white channel will be disabled; In white mode, RGB channel will be disabled; In RGB+White mode, all channels are usable.

- **Select static RGB color**

Press and key to select color from the preset library colors.

- **Shortcut color select**

Shortcut key to static colors. LED will run the relevant color when pressing the specific color key. The shortcut color is included in and content.

- **White brightness control**

Press key to increase white LED brightness and press key to decrease.

- **RGB brightness control**

Press key to increase RGB LED brightness and press key to decrease.

- **RGB dynamic effect**

Control the RGB dynamic effects. Press and to select dynamic effects and press and key to set the running speed of the dynamic effects.

- **Remote indicator**

This indicator blinks when remote controller working. Please check the remote battery if the indicator does not light up or flash slowly. The battery type is CR2032.

Operation

- **Using the remote controller**

Please pull out the battery insulate tape before using. The RF wireless remote signal can pass through some nonmetal barrier. For proper receiving remote signal, please do not install the controller in closed metal parts.

- **Setup Tuya connection**



Please install the Tuya app to setup the connection.

Before setup, please make sure the controller is at factory default mode and not connected to any gateway or router.

- **Pair a new remote controller**

The remote controller and receiver is 1 to 1 paired as factory default. It's possible to pair maximum 5 remote controllers to one receiver and each remote controller can be paired to any receivers



To pair a new remote controller, please follow two steps:

- Plug off the power of the controller and plug in again after more than 5 seconds.
- Within 10 seconds after controller powered on, press  and  key simultaneously for about 3 seconds.

After this operation, the LED lights will flash 3 times to acknowledge that remote pairing is accomplished.

- **Reset to factory default**

To reset the controller's Tuya setting and unpair all remote controllers, please operate with following tw steps:

- Plug off the power of controller and plug in again after more than 5 seconds.
- Press  and  key simultaneously for about 3 seconds, within 10 seconds after the receiver powered on.

After this operation, the controller will be reset to factory default, the Tuya configuration and remote pairing will all be reset

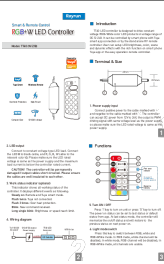
Overheat Protection

The controller has overheat protection feature and it can protect itself from damage caused by some abnormal usage such as overloading which generates excess heat. At overheat situation, the controller will shutdown the output for a short while and recover when temperature drops to a safe range. Please check the output current and make sure it's under rated level at this situation.

Specification

Model	TT40(W/Z/B)
Output Mode	PWM constant voltage
Working voltage	DC 12-24V
Rated output current	4x2A
Tuya connection	W: Wifi; Z: Zigbee; B: Bluetooth
PWM grade	4000 steps
Overheat protection	Yes
Remote frequency	433.92MHz
Remote control distance	>15m at open area
Overheat protection	Yes
Controller dimension	60×20.5x9mm
Remote dimension	86.5x36x8mm

Documents / Resources

	<p>Rayrun TT40 Smart and Remote Control RGB+W LED Controller [pdf] User Manual TT40 Smart and Remote Control RGB W LED Controller, TT40, Smart and Remote Control RG B W LED Controller, Remote Control RGB W LED Controller, Control RGB W LED Controller, R GB W LED Controller, LED LED Controller, LED Controller</p>
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