superbrightleds.com

User Manual

MCBRF-RGBW

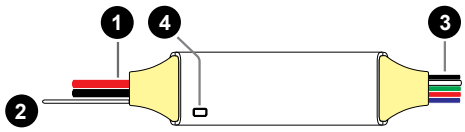
Important: Read all instructions prior to installation.

RGBW LED Controller with Wireless RF Remote

Installation

1. Power Supply Wiring

The red power cable should be connected to power positive and black to negative. The controller unit can work from DC 6V to 24V, Please make sure the power supply voltage is same as the LED load and the power supply is adequate for the circuit.



2. Antenna

3. LED Ouput Wiring

This controller supports constant voltage driving LED products with a common anode connection. The black cable on the ouput side is the common anode, it connects to the power supply positive inside the controller. The white, green, red and blue cable runs the driving signal of relevant LED color, please connect the color cable to the cathode of relevant color LED loads and the black cable to the common anode.

4. Status Indicator

The is a full color status indicator. It displays all working statuses of the controller. It indicates different events as following:

Blue: normal working.

Short single white flash: new command executed.

Long single white flash: reach mode or color cycle edge.

Long single yellow flash: reach speed or brightness limit.

Red flash: overload protected.

Yellow flash: overheat protected.

Operation

The included remote is pre-paired to the controller and supports up to 4 additional remotes, each of which can operate an unlimited number of controllers.

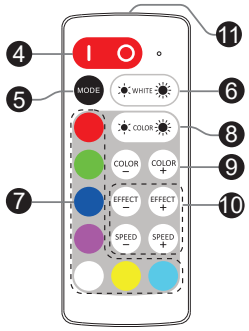
Pairing:

1. Disconnect the power to the LED controller, wait 5 seconds, and reconnect.
2. Within 10 seconds of reconnecting the LED Controller, hold the “red” and right “color” buttons simultaneously for about 3 seconds.
3. The LED indicator on the LED controller will flash white 3 times indicating the new wireless remote has been successfully assigned. This may be done for a total of 5 wireless remotes.

Safety and Notes

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer’s specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Functions



4. Turn On/Standby

Press 'I' key to turn on unit or press 'O' key to turn off. At power on, unit will automatically turn on and restore the previous settings.

5. Mode Selection

Press to cycle between RGB, white, and RGB+white modes.

6. White Brightness

Adjust white LED brightness. Press the right side key to increase white LED brightness and the left side key to decrease white LED brightness.

7. Static RGB Color Selection

These buttons are shortcuts to directly select an RGB static color.

8. Color Brightness

Adjust RGB color brightness. Press the right side key to increase RGB LED brightness and the left side key to decrease RGB LED brightness.

9. Static Color Selection

Cycle between preset static colors.

10. Dynamic Effects and Speed Control

These keys control the settings of the RGB dynamic modes.

a) Press 'EFFECT+' and 'EFFECT-' key to cycle preset dynamic modes.

b) Press 'SPEED+' and 'SPEED-' to control the dynamic mode speed.

11. Remote Controller Indicator

The blue indicator will blink when remote control is transmitting a command.

Specifications

Dynamic Mode	34 modes
Static Color	30 colors
PWM Grade	256 steps
White Brightness Grade	10 levels
Color Brightness Grade	5 levels
Speed Grade	10 levels
Direct Color Select	6 direct keys
Overload protection	yes
Overheat protection	yes
Working Voltage	6–24 VDC
Battery	CR2025 3V
Remote frequency	433.92 MHz
Remote control distance	up to 15 m
Rate Output Current	3x2.5 A + 4 A
IP Rating	IP68

⚠WARNING

- **INGESTION HAZARD**: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.