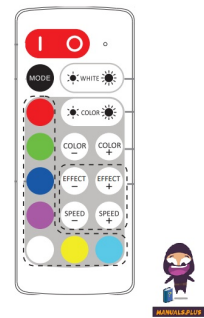


superbrightleds
MCBRF-RGBW RGBW
LED Controller with
Wireless RF Remote



superbrightleds MCBRF-RGBW RGBW LED Controller with Wireless RF Remote User Manual

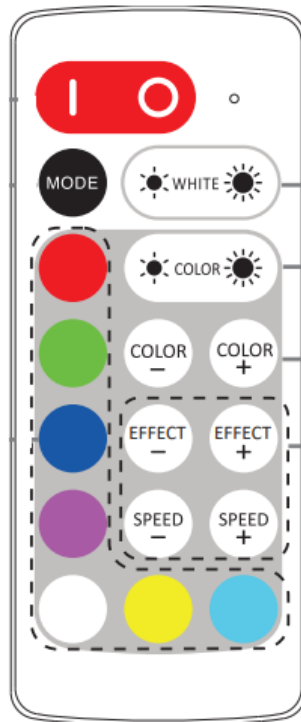
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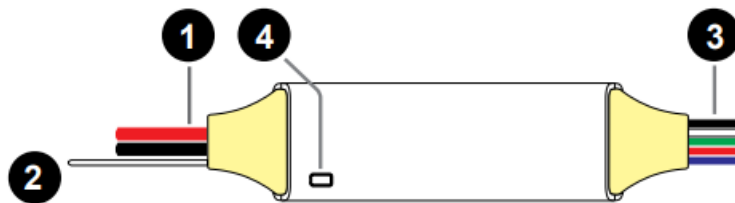
superbright LEDs MCBRF-RGBW RGBW LED Controller with Wireless RF Remote



Installation

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 the same as the LED load and the power supply is adequate for the circuit.



Antenna

LED Output Wiring

This controller supports constant voltage driving LED products with a common anode connection. The black cable on the output 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 the relevant LED color, please connect the color cable to the cathode of relevant color LED loads and the black cable to the common anode.

Status Indicator

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

- **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

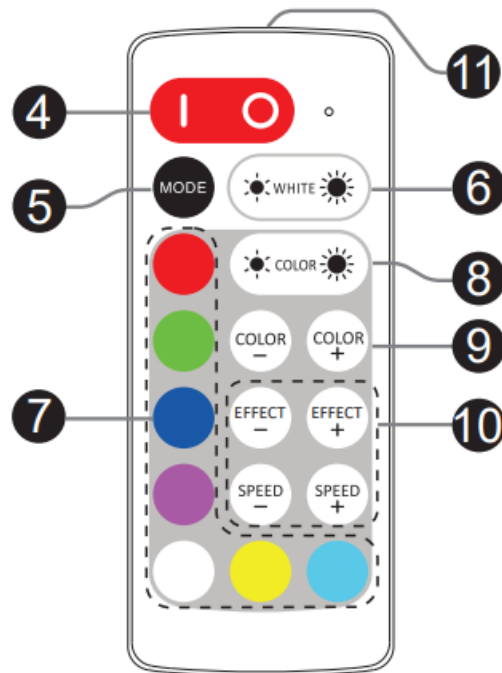
Press the 'I' key to turn on the unit or press the 'O' key to turn it off. At power on, the unit will automatically turn on and restore the previous settings.

• 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.

- Press the 'EFFECT+' and 'EFFECT-' keys to cycle preset dynamic modes.
- Press 'SPEED+' and 'SPEED-' to control the dynamic mode speed.

- **Remote Controller Indicator**

The blue indicator will blink when the 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** 3×2.5 A + 4 A
- **IP Rating** IP68

WARNING

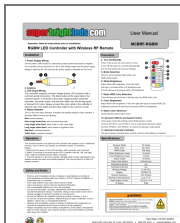
- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- DEATH or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical
- Burns in as little as 2 hours.
- KEEP new and used batteries OUT OF REACH of CHILDREN
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.
- Rev Date: V3 03/14/2024
- 4400 Earth City Expy, St. Louis, MO 63045
- [866-590-3533](tel:866-590-3533)
- superbrightleds.com

Frequently Asked Questions

Q: What do the different indicator flashes mean?

A: Blue indicates normal working, white flashes signify new commands or mode/cycle edges, yellow flashes indicate speed/brightness limits, red flashes for overload protection, and yellow flashes for overheat protection.

Documents / Resources



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r Manual
MCBRF-RGBW RGBW LED Controller with Wireless RF Remote, MCBRF-RGBW, RGBW LED
Controller with Wireless RF Remote, Wireless RF Remote

References

- [LED Lighting For Everything | Super Bright LEDs](#)
- [User Manual](#)

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