

Important: Read all instructions prior to installation.

MCBRF-RGB-5ALC4

RGB LED Controller with Wireless RF Remote

Parts Included

- 1 - LED Controller
- 1 - CR2025 Battery
- 1 - Wireless Remote

Wireless Remote Functions

1. Turn On(I) / Standby(O)

Press 'I' button to turn on unit or press 'O' button to turn off. Retains last setting between power off and power on.

2. Color and Brightness Adjustment

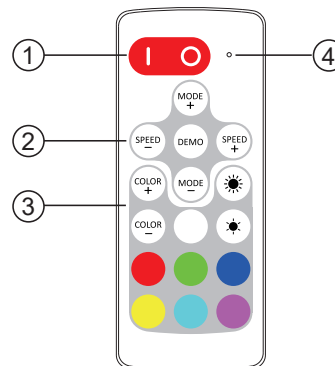
Press 'MODE+' and 'MODE-' to select dynamic effect and press 'SPEED+' and 'SPEED-' key to set the running speed of the dynamic effect. Press 'DEMO' key to play the dynamic effects in loop with each mode repeating for 3 times.

3. Color and Brightness Adjustment

The keys in this area set the RGB static color and brightness. Press the colored keys to set the LEDs to correspond color as shortcut, press 'COLOR+' and 'COLOR-' key to select all colors from the preset library, press dimming buttons to adjust color brightness.

4. Wireless Remote LED Indicator

Flashes blue when remote is operating to indicate that remote is functioning properly.



Remote Pairing

The included remote will already be paired to the controller. Up to 4 additional wireless remotes can be assigned to operate the LED controller. Additionally, each individual wireless remote can be assigned to 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 "Speed(+)" and "Speed(-)" 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.

Model	MCBRF-RGB-5ALC4
Dynamic Mode	43 Modes
Static Color	30 Colors
PWM Grade	256 Levels
Brightness Grade	5 Levels
Speed Grade	10 Levels
Overload Protection	Yes
Overheat Protection	Yes
Working Voltage	5-24 VDC
Battery	CR2025
Remote Frequency	433.92 MHz
Remote Distance	up to 15 meters
Working Temperature	-22°-176° F (-30°-80° C)
Rated Output Current	3 x 5 A
PWM Frequency	1 kHz
IP Rating (controller)	IP68

Controller Installation

5. Power Supply Input

The controller/power supply operates at 5-24VDC. The red wire is positive(+) and the black wire is negative(-) as indicated on the controller housing. Make sure the power voltage matches the LED strip requirement. Incorrect voltage may damage the LED strip.

6. Output to LEDs

The controller supports common anode-type LED RGB strips. Output wires are indicated as follows:

Black(V+): Common anode which connects as the positive (line) connection inside the controller.

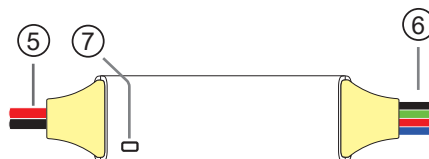
Red(R): Wire connection for red LED color signals.

Green(G): Wire connection for green LED color signals.

Blue(B): Wire connection for blue LED color signals.

7. LED Controller Status Indicator

A multi-color emitting LED located on the remote controller indicates current operating status or operating status changes as follows:



RGB LED Controller Status Indicator							
Light Signal	Blue	Short single white flash	Long single white flash	Long single yellow flash	Blue flash	Red flash	Yellow flash
Indicates	normal function	mode change	Range limit has been reached when cycling through Dynamic or Static color modes	Range limit has been reached when cycling through Tempo Speed Level or Static color Brightness Level	Dynamic mode is paused	Overload/short circuit has been detected, activating protection mode	Overheating has been detected, activating protection mode

Using the Wireless Remote

Prepare the wireless remote for use by removing the battery insulator. The remote uses a CR2025 battery. Note: The wireless remote operates using radio frequency(RF). The remote controller's use is not restricted by normal obstructions such as walls, doors, etc. Do not install controller in metal enclosures.

Additional Features

Waterproof LED Controller - The MCBRF-RGB-5ALC4 controller is fully waterproof according to the IP68 standard and can be installed and operated underwater up to a depth of 30 meters. Note: LED controller sensitivity to wireless remote signals will decrease when operated in underwater conditions. Make sure to perform all wiring connections and setup prior to installing LED controller underwater.

