

Important: Read all instructions prior to installation.

RGB LED Controller with Wireless RF Remote

Parts Included

- 1 - LED Controller
- 1 - CR2025 3V Battery
- 1 - Wireless Remote

Wireless Remote Functions

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

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

2. Mode(+)/Mode(-) Dynamic Modes

Dynamic modes feature a variety of static color transitions and patterns, with 43 distinct modes. These buttons initiate Dynamic Mode and cycle through the modes in ascending(+) or descending(-) order.

3. Play (▶=) / Pause

Toggles between run/pause when in Dynamic Mode or Demo Mode. Initiates Dynamic Mode if Static Color Mode is currently active.

4. Speed(+)/Speed(-) Speed Level

Increases(+) or decreases(-) the tempo of the currently active dynamic mode. Initiates Dynamic Mode if Static Color Mode is currently active.

5. Demo Mode

Initiates Demo Mode. Demo Mode cycles through 43 individual modes, repeating each mode 3 times.

6. Color(+)/Color(-) Static Colors

Initiates static Color Mode and cycle through the colors in ascending(+) or descending(-) order.

7. Increase(+)/Decrease(-) Static Color Brightness Level

Increases(+) or decreases(-) the brightness of the currently active static color. Initiates Static Color Mode if Dynamic Mode is currently active.

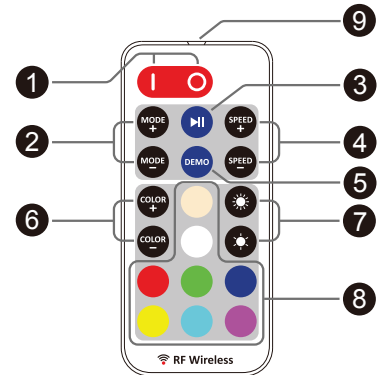
8. Direct Color Select

Activates the static color indicated by the button color. These individual colors are also accessible through the Color(+)/Color(-) Static Colors buttons.

9. Wireless Remote LED Indicator

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

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	DC 5-24V
Battery	3V CR2025
Remote Frequency	433.92MHz
Remote Distance	Up to 15 Meters (Open Area)
Working Temperature	-30° to 80° C
Rated Output Current	3 x 5.0A
PWM Frequency	1 KHz
IP Rating	IP68
FCC ID	2ACJPRM03



Remote Pairing Options

Pairing A New Remote: Up to 3 wireless remotes can be assigned to operate the LED controller. Additionally, each individual wireless remote can be assigned to an unlimited number of controllers. The following steps show how to assign a new remote to the LED Controller:

1. Disconnect the power to the LED controller, wait 5 seconds, and reconnect.
2. Within 5 seconds of reconnecting the LED Controller, press the "Mode(-)" and "Speed(-)" buttons simultaneously.
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 3 wireless remotes.

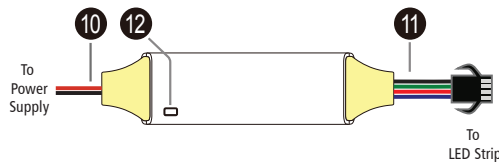
Pairing Any Remote: Up to 3 wireless remotes can be assigned to operate the LED controller. The following steps show how to assign a new remote to the LED Controller:

1. Disconnect the power to the LED controller, wait 5 seconds, and reconnect.
2. Within 5 seconds of reconnecting the LED Controller, press the "On(I)" and "Play/Pause (▶=)" buttons simultaneously.
3. The LED indicator on the LED controller will flash yellow 3 times indicating the LED controller will recognize any remote.

Controller Installation

10. Power Supply Wiring

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.



11. LED Output Wiring (LC4 Connector)

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.

12. LED Controller Status Indicator

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

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 3V 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 LED 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.

