

Important: Read all instructions prior to installation.

RGB Wireless RF Remote and Controller

Wireless Remote Functions

1. Power

Press the power to toggle the unit on or off. Retains last setting between power off and power on.

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

Dynamic modes feature a variety of static single color transitions and patterns, with 21 distinct modes. These buttons initiate dynamic color changing mode and cycle through the modes in ascending(+) or descending(-) order.

3. 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.

4. Demo Mode

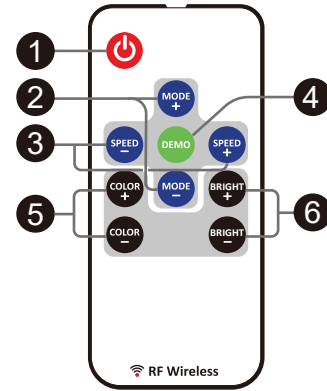
Initiates demo mode. Demo mode cycles through 21 individual dynamic modes, repeating each mode 3 times.

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

Initiates static color mode and cycle through the 20 colors in ascending(+) or descending(-) order.

6. 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.



Dynamic Mode	21 Modes
Static Color	20 Colors
PWM Grade	256 Levels
Brightness Grade	5 Levels
Speed Grade	10 Levels
Short Circuit Protection	Yes
Overheat Protection	Yes
Working Voltage	DC 5-24V
Battery	3V CR2032
Remote Frequency	433.92MHz
Remote Distance	>15 Meters (Open Area)
Working Temperature	-30° to 70° C
Rated Output Current	3 x 4A peak, 3 x 2A constant
PWM Frequency	190Hz
IP Rating	IP20
Battery Type	CR2032 3V
FCC ID	2ACJPRM12

Controller Installation

10. Power Supply Wiring

The controller/power supply operates at 5-24VDC. The inner pole of the CPS connector is positive and the outer pole is negative. Make sure the power supply voltage matches the LED voltage.

11. LED Output Wiring

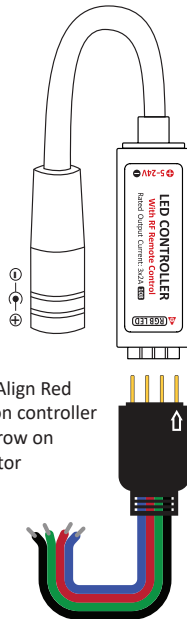
The controller supports common anode-type LED RGB strips. Output wires are indicated as follows:

Black(V+): Common anode which connects as the positive 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.



NOTE: Align Red arrow on controller with arrow on connector

Using the Wireless Remote

Remove the plastic 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.

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.



Battery Safety

- 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.



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Remote Pairing Options

Controller / Remote sets come pre-programmed and ready for use.

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 "Speed(+)" and "Speed(-)" buttons simultaneously for 1 second.
3. If LED Controller does not respond to remote, repeat steps 1 and 2.

Free Pairing Mode: Allows multiple remote to operate the same LED controller. The following steps show how to assign multiple remotes 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 "Power" and "Mode (+)" buttons simultaneously for 1 second.
3. If LED Controller does not respond to remote, repeat steps 1 and 2.

Pairing to Single Remote: Repeat "Pairing A New Remote" procedure a minimum of 3 times until LED controller responds to only that remote.

Remote Modes

Mode	Speed Adjustable	Mode	Speed Adjustable
1	Three Color Fade	12	Yellow/Green Cross Fade
2	Seven Color Fade	13	Red/Magenta Cross Fade
3	Blue Fade	14	White/Blue Cross Fade
4	Magenta Fade	15	White/Red Cross Fade
5	Red Fade	16	White/Green Cross Fade
6	Yellow Fade	17	Three Color Strobe
7	Green Fade	18	Blue Strobe
8	White Fade	19	Red Strobe
9	Three Color Jump	20	Green Strobe
10	Six Color Jump	21	Six Color Cross Fade
11	Red/Yellow Cross Fade		

