

# RGB LED CONTROLLER WITH 44 KEY RF REMOTE

## DESCRIPTION:

The 44-Key RGB LED Controller is designed to control various LED lighting applications, including flexible LED strips, wall washers, and decorative lighting. Featuring an advanced microcontroller unit, this wireless RF remote control allows users to adjust brightness, select static colors, and apply dynamic lighting effects with ease. It supports both 12V and 24V DC input, ensuring compatibility with a wide range of LED installations. The controller offers simple connections, reliable performance, and a user-friendly interface for effortless customization.

## FEATURES:

- Wireless RF remote control for convenient operation
- Adjustable brightness and color selection
- Multiple dynamic lighting effects for customization
- Compatible with 12V and 24V LED systems
- Common anode connection for stable performance
- Low power consumption for energy efficiency

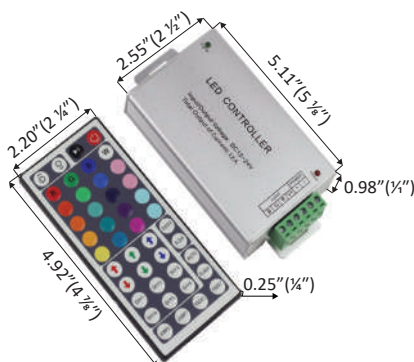
## APPLICATIONS:

- Architectural and accent lighting
- Residential and commercial LED lighting systems
- Decorative and ambient lighting
- Display and signage illumination

## TECHNICAL SPECIFICATIONS:

|                          |                             |
|--------------------------|-----------------------------|
| Supply Voltage           | DC 12V-24V                  |
| Output Channels          | 3 channels                  |
| Connection Mode          | Common anode                |
| Static Power Consumption | <1W                         |
| Output Current           | <4A/ch or <8A/ch (optional) |
| Output Power (12V)       | 4A: <144W / 8A: <288W       |
| Output Power (24V)       | 4A: <288W / 8A: <576W       |
| Working Temperature      | -4°F to 140°F               |
| Controller Dimensions    | 5.11" × 2.55" × 0.98"       |
| Net Weight               | 0.40 lbs                    |
| Gross Weight             | 0.46 lbs                    |

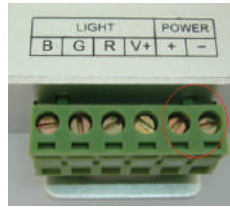
## DIMENSIONS:



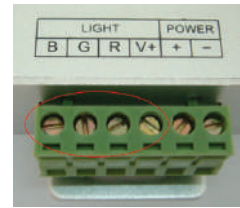
## CONNECTION DESCRIPTION:



**Power Input (Port 1):**  
Uses a DC connector for power input.



**Power Input (Port 2):**  
Equipped with a male and female connector with a screw for a secure connection.



**Load Output:**  
Features a male and female connector with a screw for stable output connectivity.

## DIRECTIONS FOR USE:

- Connect the load wires first, followed by the power wires. Ensure there are no short circuits before turning on the power.
- Retains previous settings with a power-loss memory function.
- Operated using a 44-key wireless RF remote control. Key functions are as follows:

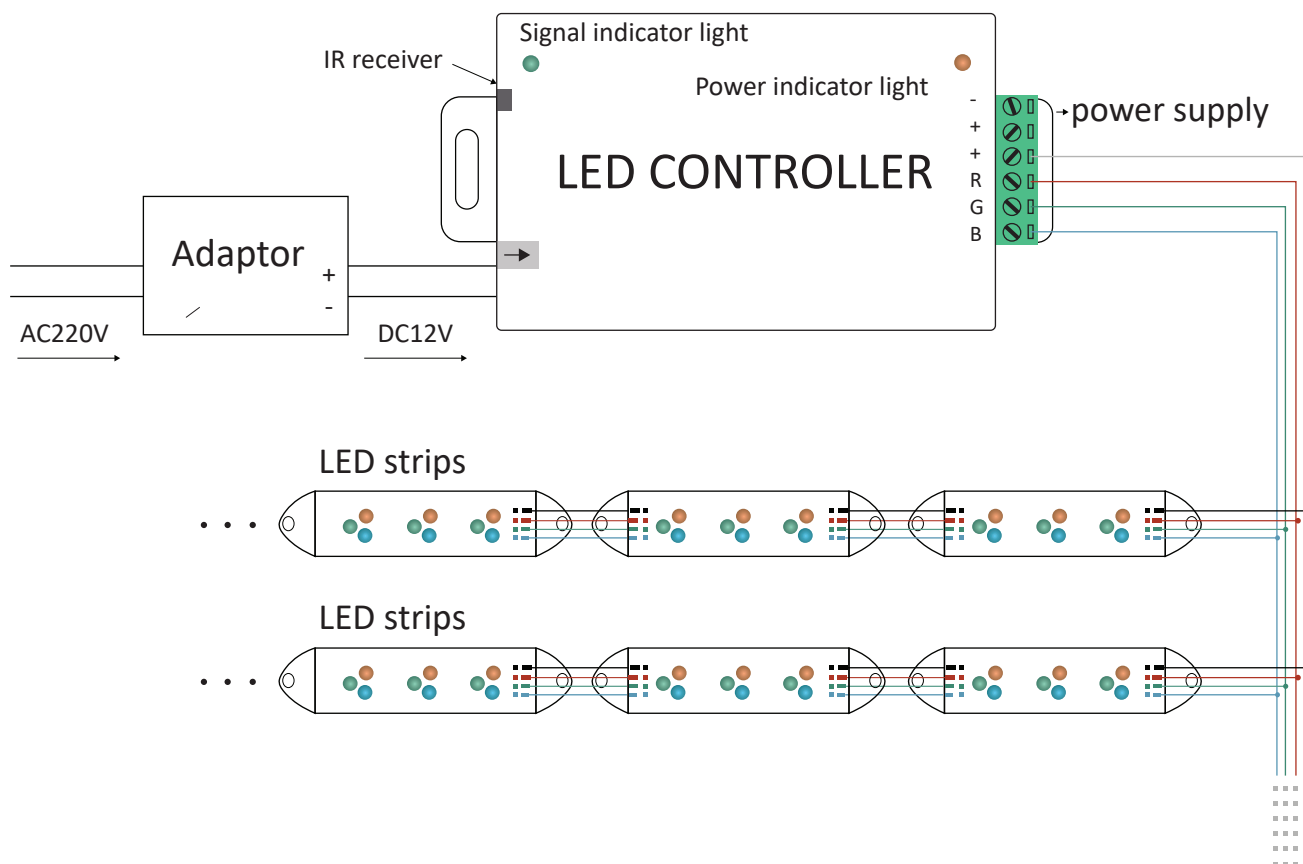
|                      |                      |                     |                     |
|----------------------|----------------------|---------------------|---------------------|
| Brightness rise      | Brightness fall      | Pause/Run           | On/Off              |
| Static red           | Static green         | Static blue         | Static white        |
| Static orange        | Static light green   | Static dark blue    | Static milk white   |
| Static dark yellow   | Static cyan          | Static Lyons blue   | Static white pink   |
| Static yellow        | Static light blue    | Static purple       | Static green-white  |
| Static light yellow  | Static sky blue      | Static brown        | Static blue white   |
| Increase red         | Increase green       | Increase blue       | Speed up            |
| Decrease red         | Decrease green       | Decrease blue       | Speed-down          |
| DIY key1             | DIY key2             | DIY key3            | Automatic change    |
| DIY key4             | DIY key5             | DIY key6            | Flash on and off    |
| 3 color jumpy change | 7 color jumpy change | 3 color fade change | 7 color fade change |

## DIY KEY FUNCTION:

When a DIY key is pressed for the first time, the controller enters DIY color mode, allowing users to manually adjust Red (R), Green (G), and Blue (B) using the six adjustment keys.

- If any other key is pressed while in DIY mode, the controller will exit DIY mode.
- To save a custom color, press the DIY key again after adjusting the color.
- The saved color will be displayed the next time the same DIY key is pressed.
- There are six independent DIY keys, allowing users to save up to six different colors without affecting each other.
- For example, if DIY Key 1 is pressed first, then DIY Key 2 is pressed, the setting for DIY Key 1 becomes inactive until DIY Key 2 is pressed again to save a new color.

## CONNECTION DIAGRAM:



## CAUTIONS:

- This product operates on a DC 12V–24V power supply. Using any other voltage is not permitted.
- Ensure the lead wires are connected correctly according to the specified wire colors and connection diagram.
- Overloading the controller is strictly prohibited.