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> [Sunity LED Strip Light Controller with APP, Music Sync and IR Remote \(2 Ports\) User Manual](#)

### Sunity LEDCONTROLLER1

# Sunity LED Strip Light Controller with APP, Music Sync and IR Remote (2 Ports) User Manual

Model: LEDCONTROLLER1



## INTRODUCTION

This manual provides comprehensive instructions for the Sunity LED Strip Light Controller. This device is designed to enhance your 4-pin 10mm RGB LED light strips by adding Bluetooth app control, music synchronization, and IR remote functionality. It supports two LED strip rolls simultaneously, offering versatile lighting options for indoor use.

## PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- 1 x Sunity 2-Port Bluetooth LED Controller
- 1 x IR Remote Control (with pre-installed CR2032 battery)
- 2 x 4-pin connectors (for LED strip connection)
- Instruction Manual



Image: The Sunity LED Strip Light Controller and its accessories as received in packaging.

## PRODUCT FEATURES

- **Bluetooth App Control:** Seamlessly connect to the controller via Bluetooth for comprehensive control using a dedicated mobile application.
- **Music Synchronization:** Lights can dance to the rhythm of music through the built-in sensitive microphone or your phone's microphone.
- **IR Remote Control:** Provides convenient control over colors, modes, and brightness.
- **Integrated Button Control:** Three physical buttons on the receiver box for basic control (Mode, Speed/Brightness, Color).

- **Wide Compatibility:** Designed for 4-pin 10mm 5050, 3528, 2835 RGB LED strip lights. Supports up to two LED strip rolls.
- **Scheduled Timer:** Set specific times for lights to turn on or off via the mobile application.

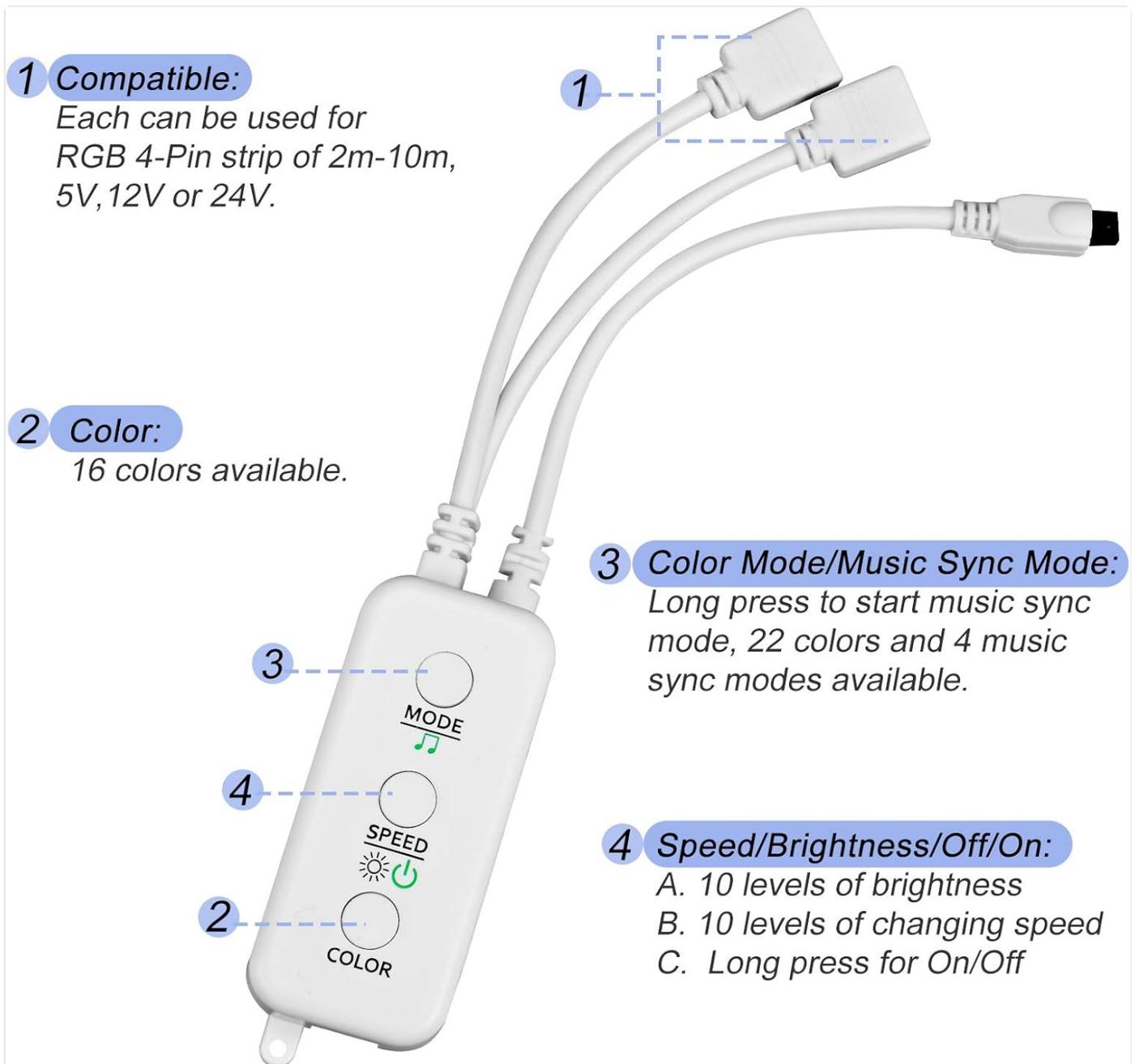


Image: Detailed view of the controller highlighting its compatibility, 16 available colors, music sync mode, and speed/brightness/on/off controls.

## SETUP

### 1. Physical Connection

1. **Connect LED Strip(s):** Ensure your LED strip is a 4-pin 10mm RGB type. Align the 4-pin connector from the controller with the pins on your LED strip. Make sure the arrows or polarity markings (+ to +) match to ensure correct color display. The controller supports up to two LED strips.
2. **Connect Power Adapter:** Plug the controller's power input into a compatible 12V or 24V power adapter (not included).
3. **Activate IR Remote:** Before first use, pull out the plastic insulation tab from the battery compartment of the IR

## Easy Installation and Use

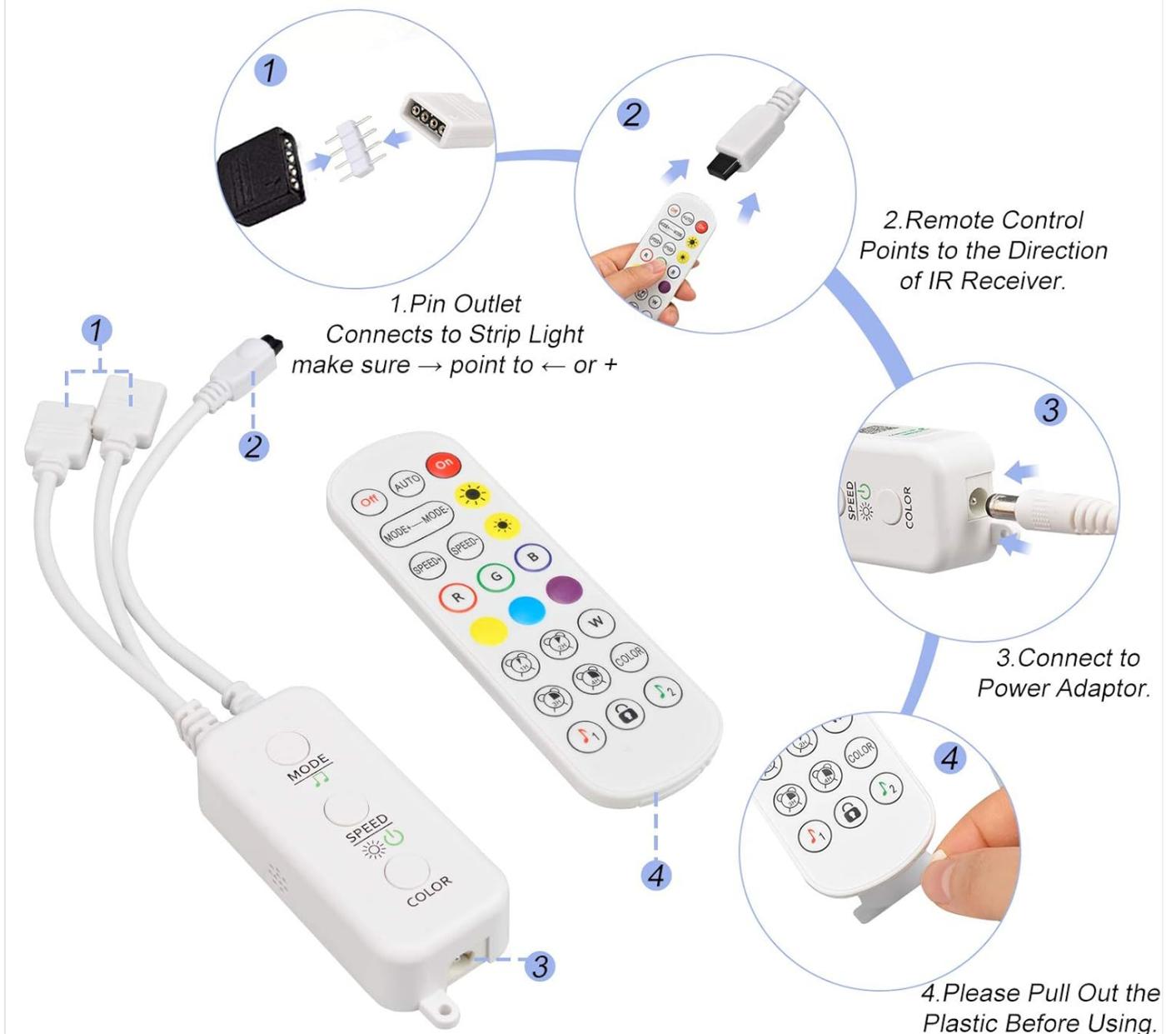


Image: Step-by-step guide for connecting the LED strip to the controller, pointing the remote to the IR receiver, connecting to a power adaptor, and removing the remote's battery tab.

## 2. App Installation

The Sunity LED Strip Light Controller is compatible with the "Lotus Lantern" mobile application. Follow these steps to install and connect:

1. **Download the App:** Scan the QR code below or search for "Lotus Lantern" in your device's app store (App Store for iOS, Google Play for Android).
2. **Install and Open:** Install the application and open it.
3. **Bluetooth Connection:** Ensure Bluetooth is enabled on your mobile device. The app should automatically detect and connect to the LED controller.
4. **Grant Permissions:** Allow necessary permissions, such as location access, for the app to function correctly.



Image: QR code for downloading the "Lotus Lantern" application.



Image: Logos indicating app availability on both Apple App Store and Google Play Store.

Your browser does not support the video tag.

Video: An unboxing video demonstrating the components of the LED Strip Controller and initial setup steps.

## OPERATING INSTRUCTIONS

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### 1. Using the Mobile Application (Lotus Lantern)

Once connected, the app provides extensive control over your LED strips:

- **Color Selection:** Use the color wheel or preset color options to choose your desired light color.
- **Brightness Adjustment:** Adjust the brightness level to suit your environment.
- **Dynamic Modes:** Select from various dynamic lighting modes (e.g., flashing, fading, jumping).
- **Music Sync Mode:**
  - **Built-in Mic:** The controller's built-in microphone detects ambient sound and music, making the lights react dynamically.
  - **Phone Mic:** Use your phone's microphone to sync lights with music playing on your device.
- **Scheduled Timer:** Set specific times for the LED strips to automatically turn on or off.



Image: Various screenshots of the Lotus Lantern app, demonstrating color adjustment, style modes, music sync, microphone control, and scheduling features.

# Music Sync Mode: Enjoy Your Time with Changing Light

Start music in APP and light will dance with music



Image: An illustration of the music sync mode, showing LED lights changing colors in rhythm with music in a party setting.



Image: The LED controller with its built-in high-sensitivity microphone, alongside a phone displaying the app's mic mode interface.

# Considerate Scheduled Timer

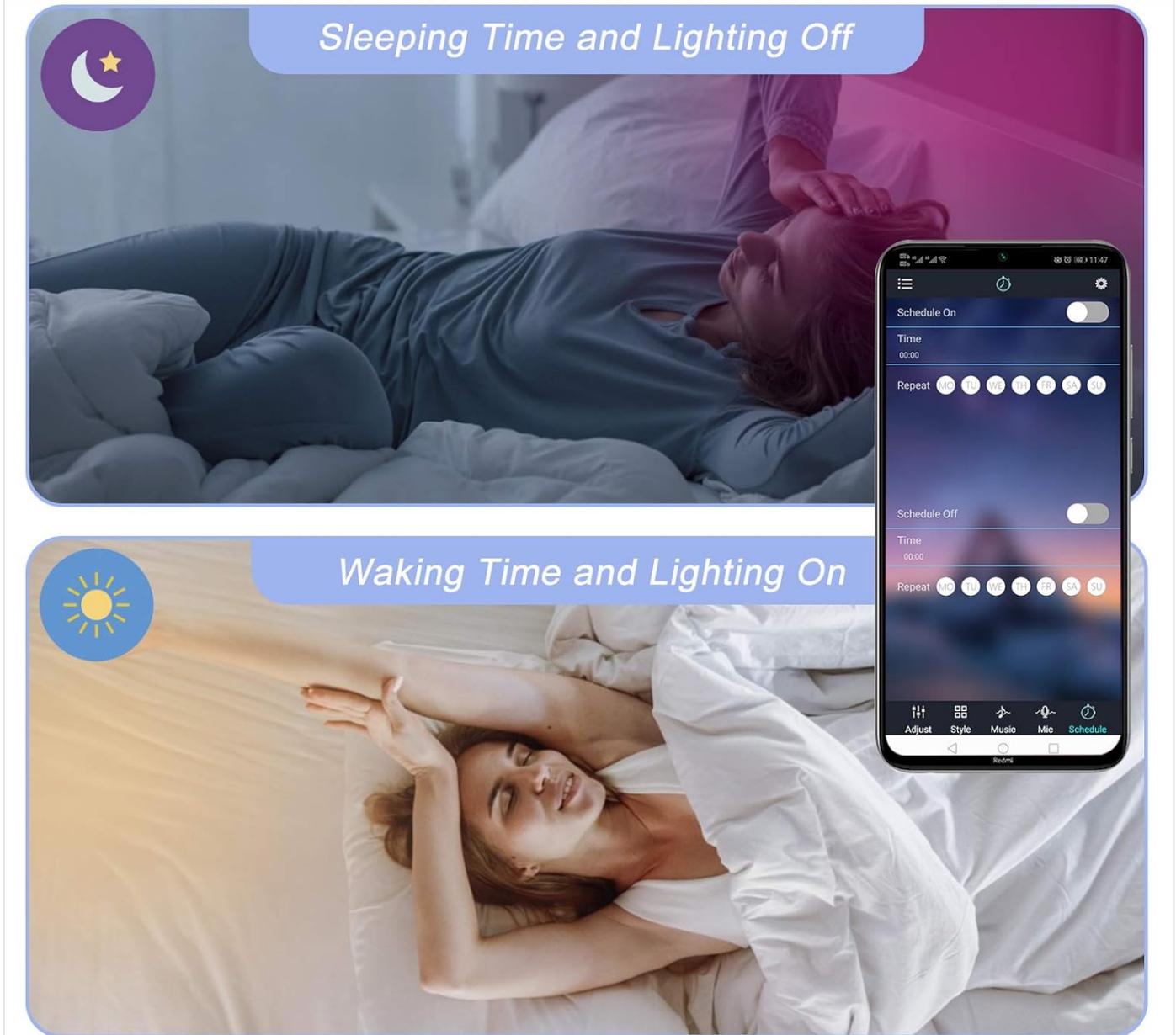


Image: The app's scheduled timer feature, illustrating settings for sleeping time (lights off) and waking time (lights on).

## 2. Using the IR Remote Control

Point the IR remote directly at the controller's IR receiver for optimal response. The remote allows you to:

- Turn the lights On/Off.
- Select static colors (Red, Green, Blue, White, and various mixed colors).
- Adjust brightness levels.
- Change dynamic modes and adjust their speed.
- Activate music sync modes.

# Three Control Ways

Change Traditional Control Way and Update your RGB Strip Light with Smart APP

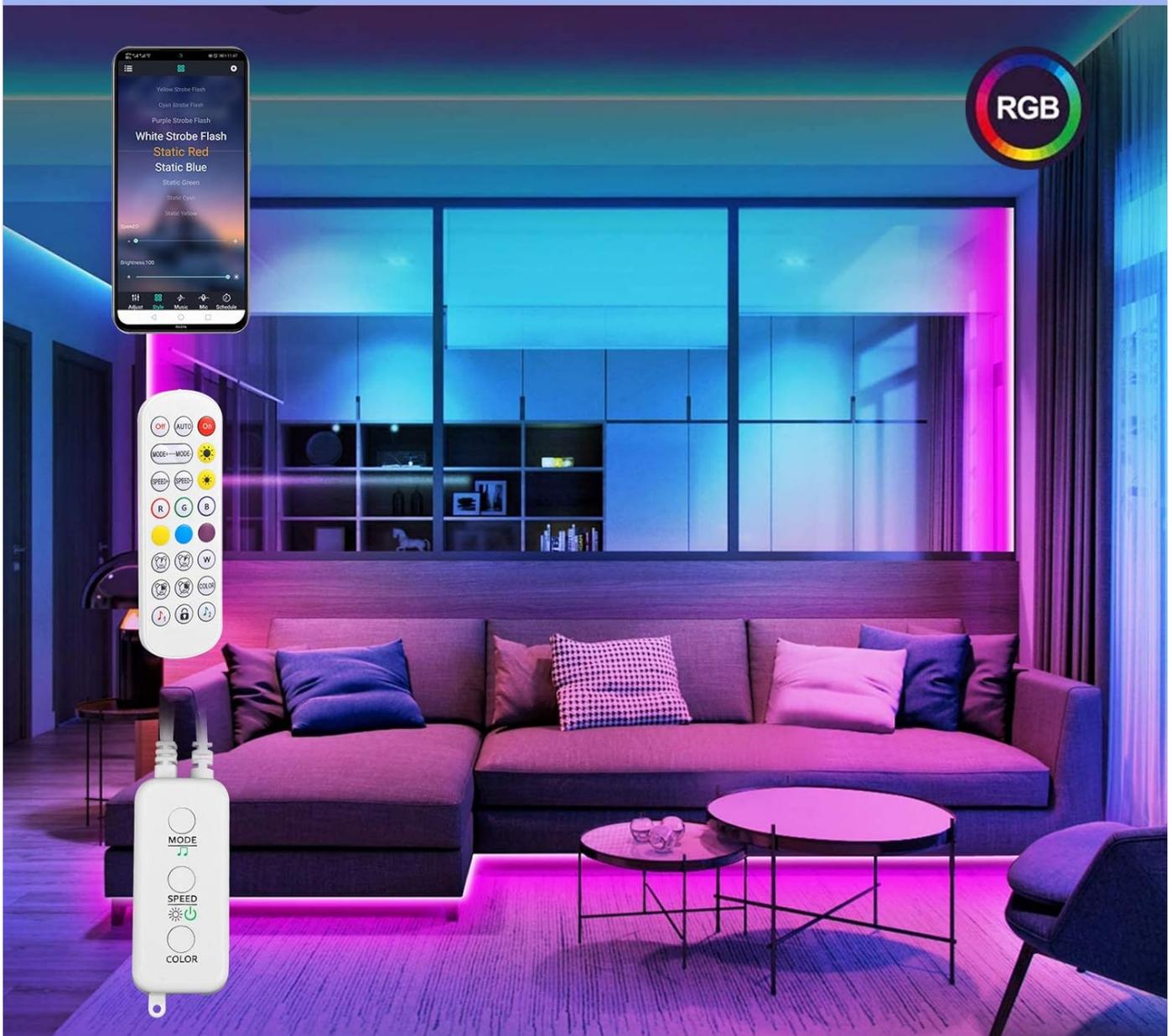


Image: A living room setting demonstrating the "Three Control Ways" - via the phone app, IR remote, and the physical controller buttons, all managing LED strip lighting.

## 3. Using the Controller Buttons

The receiver box features three buttons for basic control:

- **MODE button:** Cycles through various dynamic lighting modes.
- **SPEED / BRIGHTNESS button:** Short press to adjust speed in dynamic modes; long press to adjust brightness in static color modes.
- **COLOR button:** Cycles through static color options.

## MAINTENANCE

To ensure the longevity and optimal performance of your Sunity LED Strip Light Controller, follow these maintenance guidelines:

- Keep the controller and remote clean and dry. Avoid exposure to moisture or extreme temperatures.
- Use a soft, dry cloth to wipe down the surfaces. Do not use harsh chemicals or abrasive cleaners.
- Ensure proper ventilation around the controller to prevent overheating.
- If the IR remote stops responding, check and replace the CR2032 battery if necessary.

## TROUBLESHOOTING

If you encounter issues with your Sunity LED Strip Light Controller, refer to the following common problems and solutions:

### 1. Lights Not Turning On:

- Check all physical connections, ensuring the LED strip, controller, and power adapter are securely connected.
- Verify that the power adapter is plugged into a working outlet and providing the correct voltage (12V or 24V).
- Ensure the plastic insulation tab has been removed from the IR remote battery compartment.

### 2. Incorrect Colors or Missing Colors:

- Double-check the 4-pin connection between the LED strip and the controller. Ensure the polarity (e.g., arrow to arrow, + to +) is correctly aligned.
- If colors are still incorrect, use the "Modify Pin Sequence" feature within the Lotus Lantern app. This allows you to adjust the RGB pin order to match your specific LED strip.

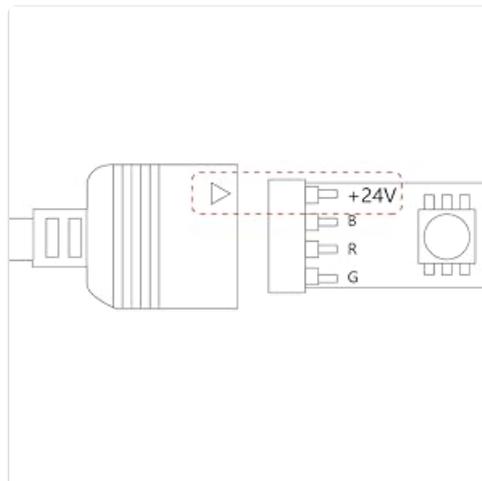


Image: The "Modify Pin Sequence" interface within the Lotus Lantern app, used to correct color output if the LED strip's pin order differs from the controller's default.

### 3. IR Remote Not Responding:

- Ensure the remote's plastic insulation tab is removed.
- Replace the CR2032 battery in the remote control.
- Point the remote directly at the IR receiver on the controller, ensuring no obstructions.

### 4. App Not Connecting via Bluetooth:

- Verify Bluetooth is enabled on your mobile device.
- Restart the Lotus Lantern app.
- Restart your mobile device.
- Ensure the controller is powered on.
- Check if the app has necessary permissions (e.g., location) granted on your phone.

## SPECIFICATIONS

| Attribute                      | Detail                                      |
|--------------------------------|---|
| Brand                          | Sunity                                      |
| Model Number                   | LEDCONTROLLER1                              |
| Control Method                 | App (Bluetooth), IR Remote, Button Control  |
| Compatible LED Strips          | 4-pin 10mm 5050, 3528, 2835 RGB LED strips  |
| Number of Ports                | 2 (for 2 rolls of LED strips)               |
| Power Source                   | Corded Electric (Power Supply Not Included) |
| Voltage                        | 12V / 24V (depending on power supply)       |
| Light Color                    | RGB (Multi-color)                           |
| Indoor/Outdoor Usage           | Indoor                                      |
| Material                       | Plastic                                     |
| Item Weight                    | 2.2 Ounces                                  |
| Product Dimensions (L x W x H) | 6.69 x 3.94 x 0.39 inches                   |
| Remote Battery Type            | 1 x CR2032 (included with remote)           |
| UPC                            | 782947793817                                |

## WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided with your purchase or visit the official Sunity website. For technical support or further assistance, please contact Sunity customer service through their official channels.

