

5e7cef1c-96a9-427c-93f5-d00e9dc7919e

Generic Mini USB 5V RGB Bluetooth LED Light Strip Controller User Manual

Model: 5e7cef1c-96a9-427c-93f5-d00e9dc7919e

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Generic Mini USB 5V RGB Bluetooth LED Light Strip Controller. This device enables smart control of compatible 5V RGB LED strip lights via a mobile application, offering various lighting modes including music synchronization.



Image 1.1: The Mini USB 5V RGB Bluetooth LED Light Strip Controller. This image displays the compact controller with a USB connector on one end and a 4-pin output for an RGB LED strip on the other. It features a small circuit board with a QR code for app download.

2. SAFETY INFORMATION

- Ensure the power supply is **5V DC**. Using an incorrect voltage may damage the controller and connected LED strips.
- This controller is designed for **indoor use**. Avoid exposure to moisture, water, or extreme temperatures.
- Do not exceed the maximum load current of **6A (2A per channel)** or maximum power of **30W**. Overloading can cause overheating and damage.
- Keep out of reach of children.
- Disconnect power before making any connections or disconnections.

3. PACKAGE CONTENTS


Please check the package for the following items:

- 1 x RGB LED Strip Light Controller

Note: LED strip lights and power supply are **not included** and must be purchased separately.

4. SPECIFICATIONS

Specification	Value
Rated Voltage	5V DC
Working Temperature	-20°C to 60°C
Connection Method	USB
Control Method	Smart APP Control (Bluetooth)
Control Range	Up to 10 meters (open area)
Signal Mode	Bluetooth
Max Load Current	< 6A (2A per channel)
Max Power	30W



Power input interface: USB

Output voltage: 5V

Maximum load current: < 6A(2A*3Channel)

Max Power: 5V-30W

Operating temperature: -20-60°C

Control distance: 10 meters (open area)

USB Version

Work with **5V** LED Strip

Image 4.1: Detailed specifications for the USB version of the controller. This image highlights key electrical and operational parameters, confirming it works with 5V LED strips.

5. SETUP INSTRUCTIONS

5.1. System Diagram

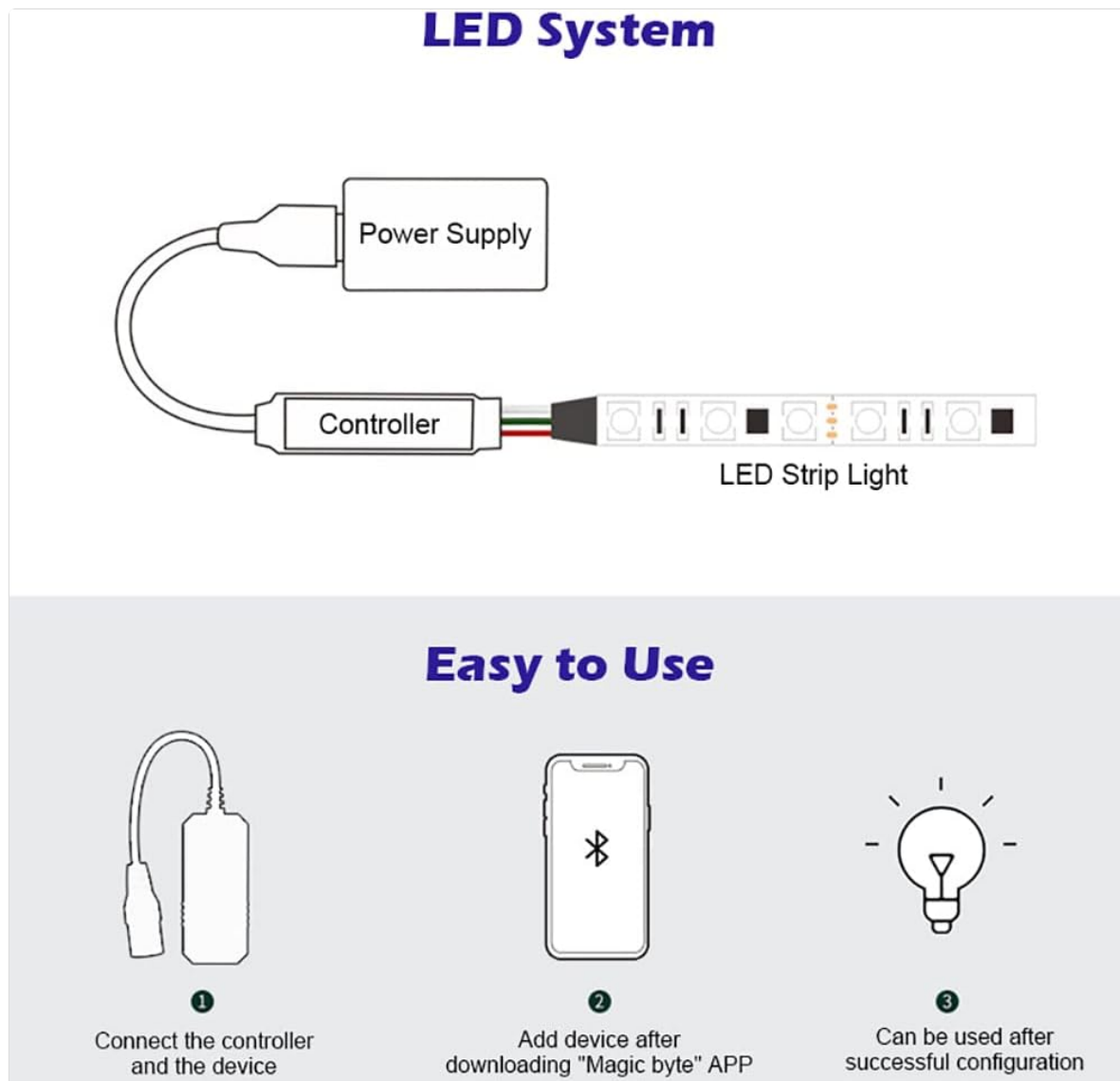


Image 5.1: Diagram illustrating the connection of the LED system. It shows the power supply connecting to the controller, which then connects to the LED strip light.

5.2. Hardware Connection

1. Ensure your 5V LED strip light is compatible with RGB controllers.
2. Connect the 4-pin connector of your RGB LED strip light to the output port of the controller. Ensure the pins are aligned correctly (usually marked with arrows or 'GND' for ground).
3. Plug the USB connector of the controller into a **5V USB power source** (e.g., a USB wall adapter, power bank, or computer USB port).

5.3. App Installation and Pairing



Image 5.2: Visual guide for easy setup. It depicts connecting the controller, downloading the 'Magic Home Pro' app, and then using the device after successful configuration.

1. **Download the App:** Scan the QR code located on the controller itself or search for "Magic Home Pro" in your mobile device's app store (available for iOS and Android).
[Direct App Download Link \(if QR code is unreadable\)](#)
2. **Enable Bluetooth:** On your mobile device, ensure Bluetooth is turned on.
3. **Open the App:** Launch the "Magic Home Pro" application. The app should automatically detect and connect to the controller within 5 seconds. If not, refresh the device list within the app.
4. Once connected, you can proceed to control your LED strip lights.

6. OPERATING INSTRUCTIONS

The "Magic Home Pro" app provides comprehensive control over your LED strip lights.



Image 6.1: The controller shown alongside a smartphone displaying the app's color wheel interface. This demonstrates the app's capability for precise color selection.

6.1. Basic Controls

- **Power On/Off:** Use the dedicated power button within the app to turn the lights on or off.
- **Color Selection:** Choose from a wide spectrum of colors using the color wheel or predefined color presets.
- **Brightness Adjustment:** Adjust the light intensity using the brightness slider.
- **Mode Selection:** Select from various dynamic modes, including static colors, fading, jumping, and flashing effects.
- **Speed Adjustment:** For dynamic modes, adjust the speed of the effects using the speed slider.

6.2. Music Mode

The controller features a music rhythm change function, allowing your LED lights to synchronize with music playing near your mobile device.



Image 6.2: A visual representation of the music mode feature, showing a crowd enjoying an event with dynamic lighting, implying the lights react to sound.

1. Navigate to the "Music" section within the "Magic Home Pro" app.
2. Select a music source (e.g., local music files on your phone or microphone input).
3. The LED lights will change color and intensity in response to the rhythm and beats of the music.

6.3. Language Synchronization

The text displayed within the "Magic Home Pro" app will automatically adjust to match your mobile phone's language settings (supports automatic conversion between Chinese and English).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	No power, incorrect voltage, loose connection, faulty LED strip.	Check USB power source (ensure 5V). Verify all connections are secure. Test LED strip with another power source if possible.

App cannot connect to controller.	Bluetooth off, app not open, controller out of range, interference.	Ensure Bluetooth is enabled on your phone. Close and reopen the "Magic Home Pro" app. Move closer to the controller (within 10m). Restart your phone and the controller.
Lights display incorrect colors.	Incorrect wiring of RGB pins.	Disconnect power and re-check the 4-pin connection between the controller and LED strip. Ensure RGB pins are correctly matched.
Music mode not working.	No music playing, microphone access denied, app issue.	Ensure music is playing loudly enough or microphone access is granted to the app in your phone settings. Restart the app.

8. MAINTENANCE

- Keep the controller clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid placing the controller in areas with high humidity or direct sunlight.
- Do not attempt to open or modify the controller, as this will void any potential warranty and may cause damage.
- Regularly check connections for any signs of wear or damage.

9. WARRANTY AND SUPPORT

This product is sold by a third-party seller. For warranty information or technical support, please refer to the seller's policies on the platform where the product was purchased. Keep your purchase receipt as proof of purchase.