

B09MM5G8W7

Generic Mini RGB Bluetooth Controller User Manual

Model: B09MM5G8W7

INTRODUCTION

This manual provides instructions for the Generic Mini RGB Bluetooth Controller, a wireless smart LED controller utilizing Bluetooth 4.0 technology. It allows control over RGB LED light strips via a mobile application, enabling adjustments to color, brightness, and various lighting effects, including music synchronization.

SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Ensure the power supply voltage is within the specified range (4.5V-24V DC).
- Do not exceed the maximum load current of 6A (2A per channel).
- This device is designed for indoor use only and is not water-resistant. Avoid exposure to moisture or liquids.
- Disconnect power before making any connections, disconnections, or performing maintenance.
- Keep the device away from heat sources and direct sunlight.

PACKAGE CONTENTS

The package includes the following items:

- Mini RGB Bluetooth Controller
- User Manual
- Warranty Card



The image shows the Mini RGB Bluetooth Controller, user manual, and warranty card sealed within its original packaging.

PRODUCT OVERVIEW

The Mini RGB Bluetooth Controller is a compact device designed for controlling RGB LED light strips. It features a 4-pin connector for output and supports a wide voltage range from 4.5V to 24V DC. The controller enables various lighting effects and color adjustments through a smartphone application, offering a versatile solution for ambient lighting.



This image displays both the white and black versions of the Mini RGB Bluetooth Controller, highlighting their input (V- V+ VCC) and output (V+ G R B) connections, along with QR codes for app download.

SETUP INSTRUCTIONS

1. 1. Connect LED Strip and Power

Connect your RGB LED light strip to the 4-pin output connector of the controller. Ensure the V+ pin on the controller aligns with the V+ on the LED strip, and G, R, B pins align accordingly. Then, connect the power supply (4.5V-24V DC) to the input connector of the controller. Ensure all connections are secure before powering on.

2. 2. Download the Application

Scan the QR code located on the controller or use the following link to download the official application. The application is compatible with Android systems 4.3 and above, and Apple (iOS) systems 6.0 and above.

Download Control App

3. 3. Connect to Bluetooth

Once the app is installed, open it and ensure Bluetooth is enabled on your mobile device. The app will automatically search for and connect to the controller. If connection issues occur, ensure the controller is powered on and within Bluetooth range (typically up to 10 meters without obstructions).



This image illustrates the setup process, showing the Mini RGB Bluetooth Controller connected to LED strips, a smartphone displaying the color wheel and control options within the app, and a QR code for app download.

OPERATING INSTRUCTIONS

After successful setup and connection, you can control your LED strip lights using the mobile application.

- **Adjusting Color and Brightness**

Within the application, use the color wheel or predefined color options to select your desired light color. Adjust the brightness slider to increase or decrease the intensity of the LED lights. Most apps allow fine-tuning of color temperature and saturation.

- **Applying Lighting Effects**

The app offers various lighting effects, including colorful gradient changes, monochrome and bi-color gradients, strobe effects, and flashing patterns. Select the desired effect from the available options to create dynamic lighting scenes.

- **Music Synchronization**

Activate the music synchronization feature within the app to make the LED lights change color and pattern according to the rhythm of the music playing on your device. This feature often uses the device's microphone to detect audio.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Mini RGB Bluetooth Controller.

- Keep the controller in a dry environment, away from moisture and extreme temperatures.
- Clean the device with a soft, dry cloth. Do not use harsh chemicals, abrasive cleaners, or solvents.
- Ensure all electrical connections are secure and free from dust or debris. Periodically check for any loose wires.
- Avoid physical impact or dropping the controller.

TROUBLESHOOTING

If you encounter issues with your controller, refer to the following common problems and solutions:

- **Lights Not Turning On**

Solution: Check the power supply connection and ensure the voltage is within the 4.5V-24V DC range. Verify that the LED strip is correctly connected to the controller's 4-pin output. Confirm the controller is receiving power (some models have an indicator light).

- **Cannot Connect via Bluetooth**

Solution: Ensure Bluetooth is enabled on your mobile device. Restart the app and the controller (by disconnecting and reconnecting power). Make sure the controller is within range of your device. Check if the app is compatible with your phone's operating system version (Android 4.3+ or iOS 6.0+).

- **Incorrect Colors or Effects**

Solution: Verify the LED strip's G, R, B connections are correctly aligned with the controller's output. Sometimes, reversing the G and B wires can correct color discrepancies. Restart the app and re-select the desired color or effect. Ensure the LED strip itself is functioning correctly.

SPECIFICATIONS

Parameter	Value
Operating Temperature	-20°C to 60°C
Power Supply Voltage	4.5V-24V DC (wide voltage)
Output Channels	3 Channels (RGB)
Product Size (approx.)	L43mm x W22mm x H11mm
Total Length (approx.)	120mm to 500mm (depends on type)
Static Power Consumption	<1W
Maximum Load Current	<6A (2A per channel)
Output Connector	4-Pin Connector
Output Power	5V <30W, 12V <72W, 24V <144W
Connectivity Protocol	Bluetooth
Control Method	App
Water Resistance Level	Not Water Resistant
Material Type	Metal
Item Weight	20 Grams

WARRANTY INFORMATION

This product includes a Warranty Card. Please refer to the card for specific warranty terms and conditions provided by the manufacturer. Retain your proof of purchase for any warranty claims.

SUPPORT

For further assistance, technical support, or inquiries not covered in this manual, please refer to the contact information provided on the Warranty Card or the manufacturer's official website. You may also consult the application's help section for common questions.