RGBZONE JAYBOYMODZ

RGBZONE Bluetooth RGB LED Controller User Manual

Model: JAYBOYMODZ

Your guide to smart lighting control.

1. INTRODUCTION

The RGBZONE Bluetooth RGB LED Controller provides versatile control over your RGB LED strip lights. With both a 40-key IR remote and a dedicated smartphone application, you can customize your lighting experience with millions of colors, music synchronization, and timer functions. This manual will guide you through the setup, operation, and maintenance of your new LED controller.

2. WHAT'S IN THE BOX

Please check the package contents to ensure all items are present:

- 1 x 2 Ports IR LED Controller
- 1 x IR Remote Control (40-Keys)
- 1 x User Manual (this document)

3. SETUP GUIDE

3.1 Connecting the Controller

Follow these steps to connect your RGBZONE LED Controller:

1. Ensure your LED strip lights are 4-pin RGB type (SMD 5050, 3528, 2835). This controller is not compatible with RGBIC strips.
2. Connect the 4-pin connector(s) from your RGB LED strip lights to the corresponding ports on the LED controller.

3. Connect a compatible 5V/12V/24V DC power adapter (not included) to the power input port of the controller. Ensure the voltage matches your LED strip requirements.

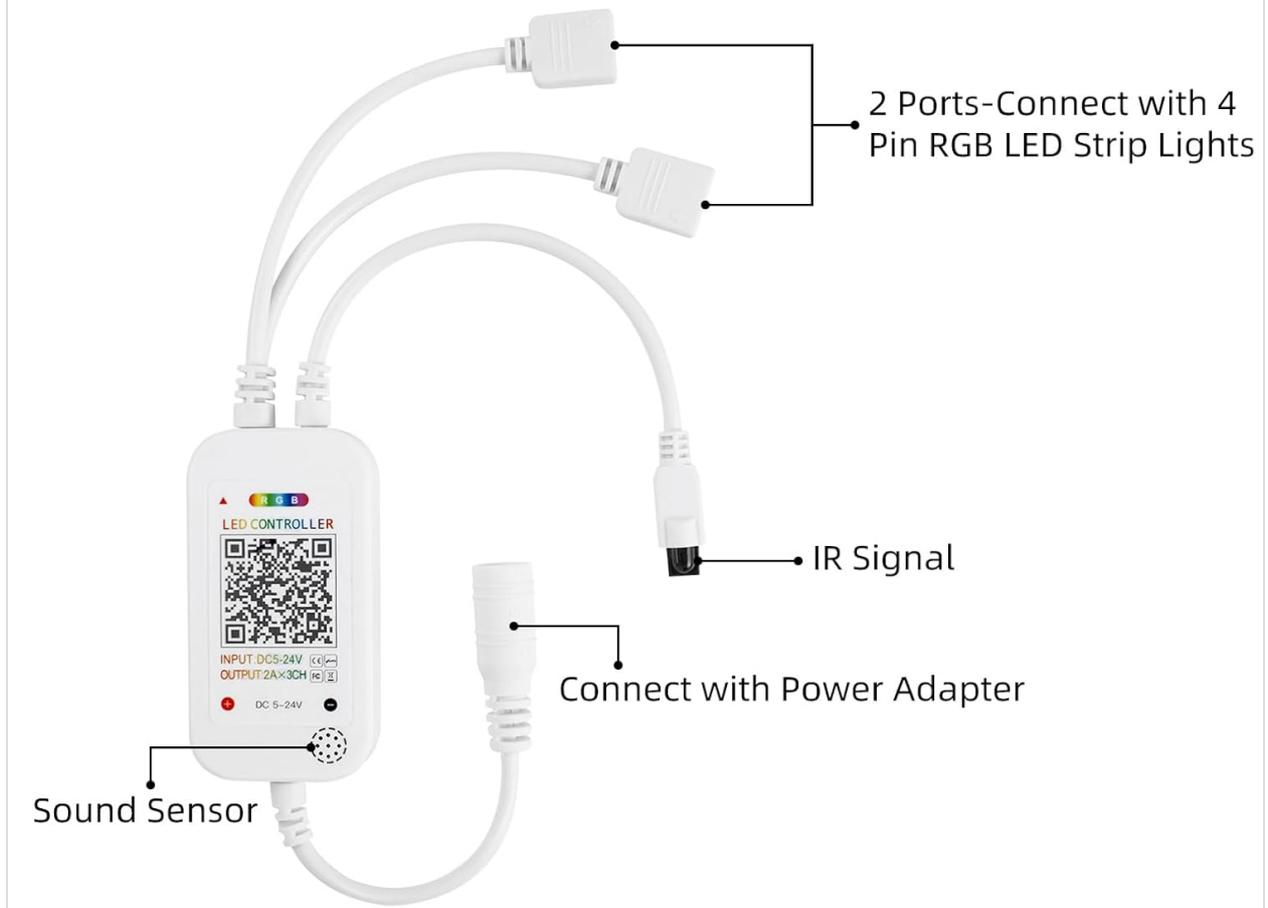4. Plug the power adapter into a wall outlet. The LED strip lights should illuminate.

Figure 3.1: Controller Connection Diagram. This image illustrates the connections for the RGBZONE LED controller, showing how to connect it to 4-pin RGB LED strip lights and a power adapter. It also highlights the IR signal receiver and sound sensor.

3.2 App Installation and Bluetooth Pairing

For advanced control features, download and install the dedicated smartphone application:

1. Scan the QR code on the controller or refer to the manual for the app name, typically "duoCo Strip".

2. Download the "duoCo Strip" application from the Google Play Store (for Android) or the Apple App Store (for iOS). You can also find the download link here:
   http://www.easytrack.net.cn/download/111SHENZHENSHUANGHONGYUAN

3. Enable Bluetooth on your smartphone.

4. Open the "duoCo Strip" app. The app should automatically detect and connect to your RGBZONE controller. If not, ensure the controller is powered on and within Bluetooth range.

Figure 3.2: Smartphone App Interface. This image displays various screens of the "duoCo Strip" application, illustrating features such as timer settings, custom color creation (DIY), music synchronization, and static color selection.

4. OPERATING INSTRUCTIONS

4.1 App Control

The "duoCo Strip" app offers comprehensive control over your LED lights:

- **Color Selection:** Choose from 16 million colors using the color wheel or preset options.
- **Brightness Adjustment:** Dim or brighten the lights to your desired level.
- **Dynamic Modes:** Select from various dynamic modes such as gradual color changing, jumping color changing, and more.
- **DIY Mode:** Create and save your own custom color sequences and effects.
- **Music Sync Mode:** Synchronize light colors with music (see section 4.3).
- **Timer Setting:** Schedule lights to turn on/off at specific times (see section 4.4).

4.2 IR Remote Control (40-Keys)

The included 40-key IR remote provides quick access to essential functions. Ensure the remote is pointed directly at the IR receiver on the controller for optimal performance (within approximately 30 feet).

Figure 4.1: 40-Key IR Remote Control. This image details the functions of each button on the 40-key IR remote, including power, color selection, brightness dimming, color changing modes, timing off modes, and music activation mode.

Key Functions:

- **Power On/Off:** Turn the lights on or off.
- **Color Buttons:** Directly select preset colors (Red, Green, Blue, White, etc.).
- **Brightness +/-:** Adjust the brightness level.
- **DIY Buttons:** Customize and save your preferred colors.
- **Jump/Fade Modes:** Activate various dynamic color changing effects.
- **Music Mode:** Activate music synchronization.
- **Timer Buttons:** Set predefined timer durations (e.g., 1H, 2H, 4H, 8H).

4.3 Music Sync Mode

The controller features a sensitive built-in microphone that allows your LED lights to change colors and

patterns in sync with the beat of music or any sound. This feature can be activated via the app or the IR remote.

Figure 4.2: Music Sync Mode in Action. This image depicts a lively scene where LED strip lights are dynamically changing colors in response to music, creating an immersive atmosphere.

4.4 Timer Setting Mode

You can set custom schedules for your LED lights to turn on or off automatically. This is useful for creating wake-up or bedtime routines, or for automating lighting for events.

Figure 4.3: Timer Setting Mode. This image illustrates the timer functionality, showing how lights can be scheduled to turn off for sleep (e.g., PM 10:30) and turn on for wake-up (e.g., AM 6:30).
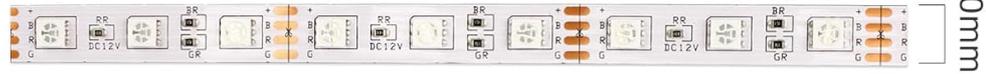
5. COMPATIBILITY

The RGBZONE Bluetooth RGB LED Controller is designed to work with standard 4-pin RGB LED light strips that are 8mm or 10mm wide. It supports 5V, 12V, and 24V LED strips.

Important: This controller is NOT suitable for RGBIC (individually addressable) LED strips, 2-pin, 3-pin, or 5-pin LED strips.

Figure 5.1: LED Strip Compatibility. This diagram clearly indicates which types of LED strips are compatible (4-pin, 8mm/10mm wide) and which are not suitable (RGBIC, 2-pin, 3-pin, 5-pin).

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to wipe the controller and remote. Do not use liquid cleaners or abrasive materials.
- **Environment:** Keep the controller in a dry environment, away from direct sunlight, high temperatures, and excessive humidity. This product is not water resistant.
- **Power Supply:** Always use a power supply that matches the voltage requirements of your LED strips and the controller (5V/12V/24V DC).
- **Remote Battery:** If the IR remote's performance degrades, replace the CR2 battery. Ensure the clear plastic tab is removed from the battery compartment before first use.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
LED lights do not turn on.	No power, incorrect voltage, loose connections, incompatible LED strip.	Check power adapter connection and ensure it's plugged in. Verify power adapter voltage matches LED strip and controller. Ensure all connectors are securely attached. Confirm LED strip is 4-pin RGB and compatible.
IR Remote not working.	Remote not pointed at IR receiver, battery low/dead, obstruction.	Point the remote directly at the IR receiver on the controller. Ensure there are no obstructions. Replace the CR2 battery if necessary. Check if the clear plastic tab has been removed from the battery compartment.
Bluetooth connection issues.	Bluetooth off, app not open, controller out of range, interference.	Ensure Bluetooth is enabled on your smartphone. Open the "duoCo Strip" app. Move closer to the controller. Restart the app and/or power cycle the controller.
Lights flicker or display incorrect colors.	Loose connection, insufficient power, faulty LED strip.	Check all connections for tightness. Ensure your power supply provides enough current for the length of your LED strip. Test with a different LED strip if possible.

8. SPECIFICATIONS

Feature	Detail
Model Number	JAYBOYMODZ
Input Voltage	DC 5V/12V/24V
Max Wattage	144 watts
Control Method	Bluetooth App Control, 40-Keys IR Remote Control
Connectivity Technology	Bluetooth, Infrared (IR)
Compatible LED Strips	4-pin RGB LED strips (SMD 5050, 3528, 2835)
Material	Plastic
Item Weight	2.08 Ounces
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact RGBZONE customer service directly. Refer to

the product packaging or the official RGBZONE website for contact details.
Please retain your purchase receipt as proof of purchase for any warranty claims.