RGBZONE FB0266

RGBZONE 4PIN WiFi RGB LED Controller User Manual

Model: FB0266

1. INTRODUCTION

The RGBZONE 4PIN WiFi RGB LED Controller is a versatile smart device designed to manage RGB LED light strips. It offers multiple control methods, including a 24-key infrared remote control, a dedicated smartphone application, and voice commands via smart assistants like Alexa and Google Assistant. This controller supports DC 5V, 12V, and 24V LED strips, making it compatible with various SMD 5050, 3528, and 5630 strip lights. This manual provides detailed instructions for installation, operation, and troubleshooting to ensure optimal performance and user experience.

2. WHAT'S INCLUDED

Upon unpacking, please verify that all components listed below are present:

- 1 x RGBZONE 2-Ports IR LED Controller
- 1 x 24-Key IR Remote Control
- 1 x User Manual (this document)

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	FB0266
Brand	RGBZONE

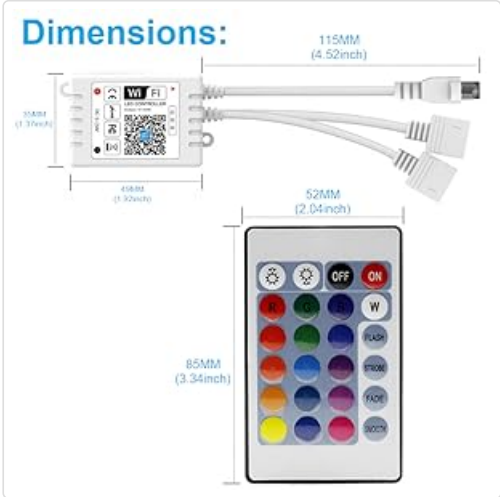| Feature	Specification
Input Voltage	DC 5V/12V/24V
Max Output Wattage	144 Watts
Control Method	Wi-Fi (App), IR Remote Control, Voice Control (Alexa, Google Assistant)
Connectivity Technology	Wi-Fi (2.4GHz only)
Color Output	Multicolor, RGB (16 million colors via App)
Material	Plastic
Indoor/Outdoor Usage	Indoor
Dimensions (Controller)	Approx. 45mm x 35mm (1.77in x 1.37in)
Dimensions (Remote)	Approx. 52mm x 85mm (2.04in x 3.34in)
Item Weight	1.58 ounces

Image: Dimensions of the RGBZONE LED Controller and its remote control, showing measurements in millimeters and inches.
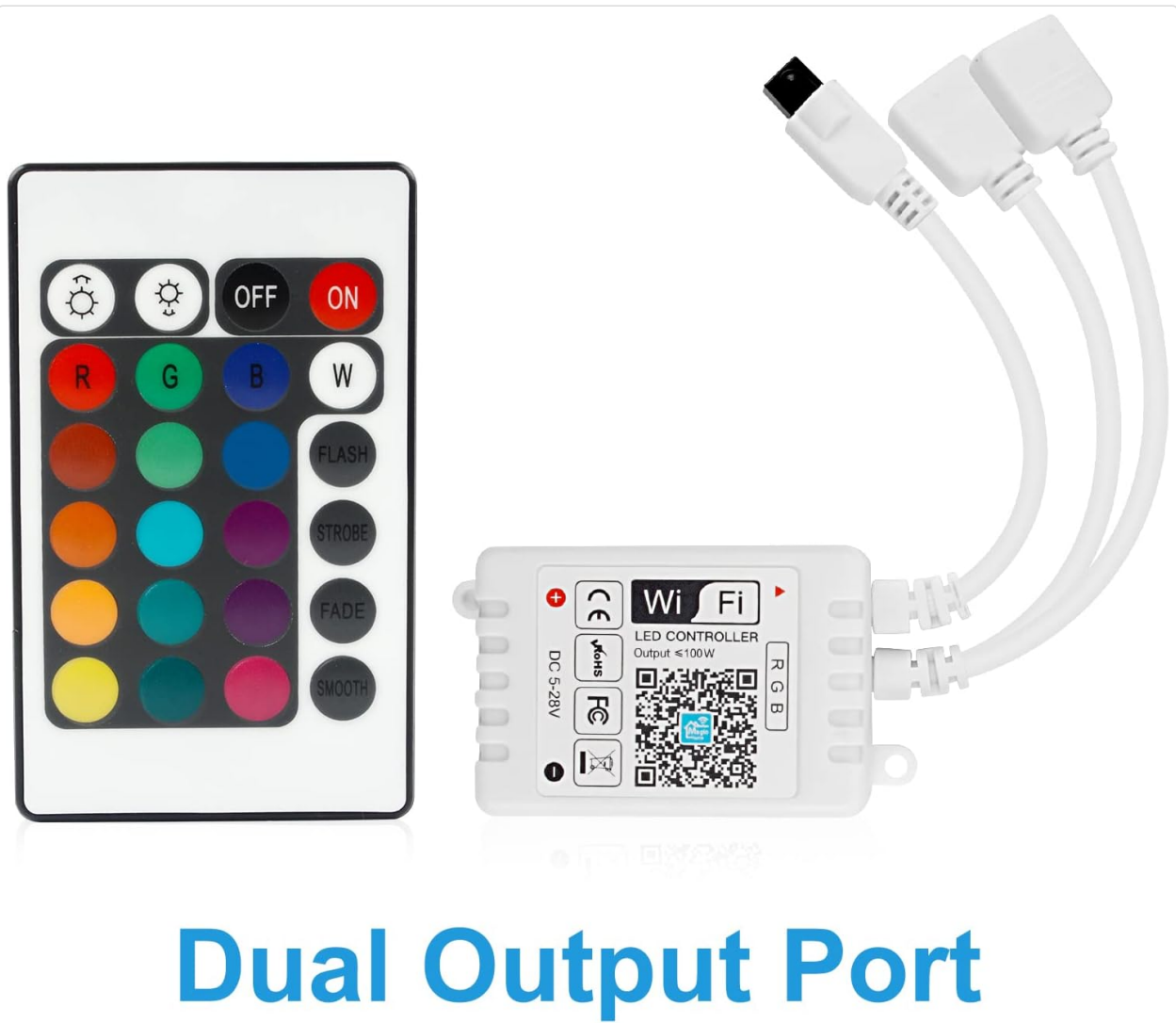
4. SETUP INSTRUCTIONS

4.1 Physical Connection

1. Ensure your LED light strip is compatible with DC 5V/12V/24V input.

2. Connect the 4-pin connector from your LED strip to the RGB output port(s) on the controller. The controller features dual output ports for connecting two LED strips.

3. Connect a compatible DC 5V/12V/24V power adapter (not included) to the DC input jack on the controller. Ensure the power adapter's output matches the voltage requirement of your LED strip.

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

Image: Connection diagram illustrating the proper way to connect the LED controller to an LED strip and a power adapter. Note the 2.1mm x 5.5mm DC jack specification.

Image: The RGBZONE LED Controller featuring two distinct output ports, allowing for connection of two separate LED light strips.

4.2 App Installation and Pairing

The controller can be managed via the 'Magic Home' app. Please note that the controller only supports 2.4GHz Wi-Fi networks.

1. **Download the App:** Search for "Magic Home WiFi" in the iOS App Store or Android Google Play Store, or scan the QR code provided in the manual or on the product packaging. You can also download it from

2. **Register/Login:** Open the app and create an account or log in if you already have one.

3. **Add Device:** Ensure your phone is connected to a 2.4GHz Wi-Fi network. Power on the LED controller. In the Magic Home app, tap the '+' icon to add a new device.

4. **Connect to Controller's Wi-Fi:** The app will guide you to connect to the controller's Wi-Fi hotspot (e.g., 'LEDnetXXXXXX'). After connecting, return to the Magic Home app.

5. **Connect to Home Wi-Fi:** Select your home 2.4GHz Wi-Fi network from the list and enter the password. The controller will then connect to your home network.

6. **Rename Device:** Once connected, you can rename your controller for easier identification (e.g., "Living Room Lights").
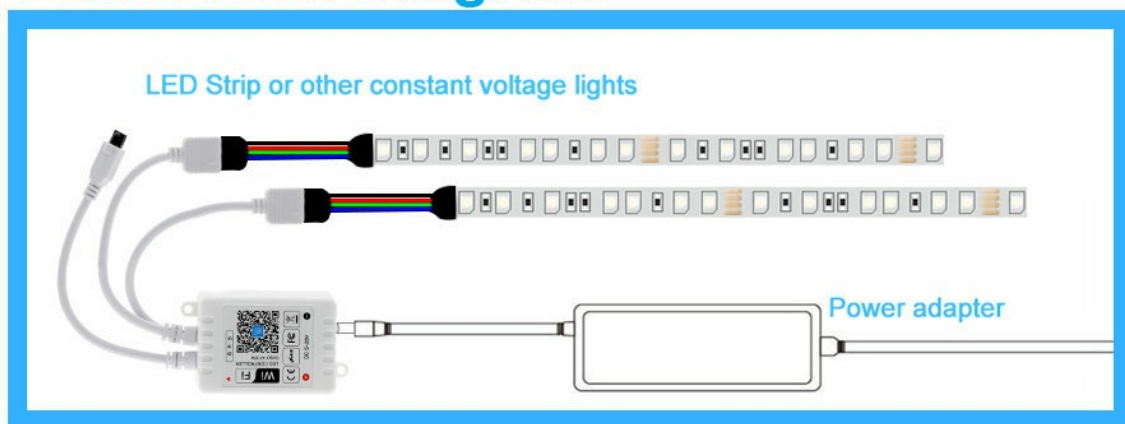

Image: Software installation guide showing how to download the 'Magic Home WiFi' app via QR code or app stores, along with a simplified connection diagram for the LED strip, controller, and power adapter.

4.3 Voice Assistant Integration (Alexa/Google Assistant)

To enable voice control, link your Magic Home account with your preferred smart assistant:

1. **For Amazon Alexa:**

   - Open the Alexa app.
   - Go to 'Skills & Games'.
   - Search for 'Magic Home'.
   - Enable the skill and link your Magic Home account using your credentials.
   - Discover devices.

2. **For Google Assistant:**

   - Open the Google Home app.
   - Tap 'Add' (the '+' icon) and then 'Set up device'.
   - Choose 'Works with Google'.

- Search for 'Magic Home' and link your account.

5. OPERATING THE CONTROLLER

5.1 Using the 24-Key IR Remote Control

The included 24-key IR remote allows for direct control of basic functions. Ensure the remote is pointed towards the IR receiver on the controller.
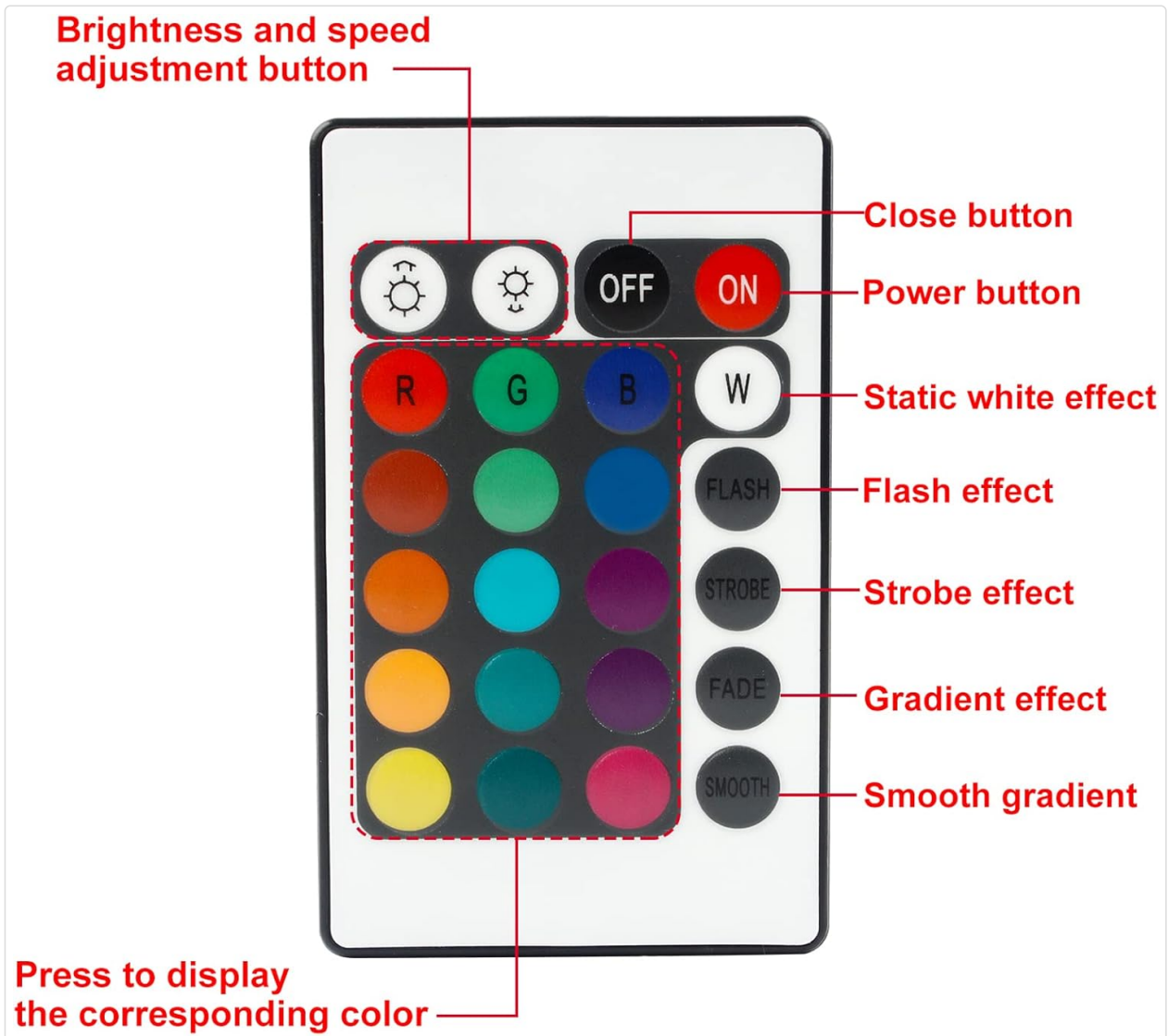

Image: A detailed diagram of the 24-key IR remote control, highlighting the functions of each button, including power, brightness/speed adjustment, static colors (Red, Green, Blue, White, and 12 preset colors), Flash, Strobe, Fade, and Smooth gradient effects.

- **ON/OFF:** Power on/off the LED strip.
- **Brightness/Speed Adjustment:** Use the sun icons to increase or decrease brightness for static colors, or adjust speed for dynamic modes.
- **R, G, B, W:** Select Red, Green, Blue, or White static colors.
- **Color Grid:** Press any of the 12 colored buttons to display the corresponding static color.
- **FLASH:** Activates a rapid flashing effect.
- **STROBE:** Activates a slower, pulsating strobe effect.

- **FADE:** Initiates a gradual color change effect.
- **SMOOTH:** Activates a smooth, continuous gradient color transition.

5.2 Using the Magic Home App

The Magic Home app provides extensive control over your LED strip, including 16 million color options and various dynamic modes.

Image: The Magic Home app interface displaying a color wheel for precise color selection, along with examples of LED strips illuminated in various colors, demonstrating the app's extensive color control capabilities.

- **Color Selection:** Use the color wheel to choose from 16 million colors. You can also adjust brightness.
- **Dynamic Modes:** Select from 20 pre-programmed dynamic modes (e.g., jumping, fading, flashing).
- **DIY Modes:** Create and save your own custom color sequences and effects.
- **Music Sync:** The lights can change color and intensity in sync with music played through your smartphone's microphone.
- **Timer Function:** Schedule the LED strip to turn on/off at specific times or activate certain modes.
- **Group Control:** If you have multiple RGBZONE controllers, you can group them in the app to control them simultaneously.

Image: A composite image showcasing the RGBZONE LED controller, its remote, and several screenshots of the Magic Home app interface. The app screens demonstrate various functionalities including device list, function selection (e.g., candle, gradient changes), color wheel for precise color tuning, and music synchronization options.

5.3 Voice Control Commands

Once integrated with Alexa or Google Assistant, you can use voice commands to control your LED strip. Replace "[Device Name]" with the name you assigned in the Magic Home app (e.g., "Living Room Lights").

- "Alexa/Hey Google, turn on [Device Name]."
- "Alexa/Hey Google, turn off [Device Name]."
- "Alexa/Hey Google, set [Device Name] to red."
- "Alexa/Hey Google, change [Device Name] to blue."
- "Alexa/Hey Google, dim [Device Name]."
- "Alexa/Hey Google, brighten [Device Name]."
- "Alexa/Hey Google, set [Device Name] to 50% brightness."

6. Maintenance

To ensure the longevity and proper functioning of your RGBZONE LED Controller, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the controller and remote with a dry, soft cloth. Do not use liquid cleaners or abrasive materials.
- **Environment:** Keep the controller in a dry environment, away from direct sunlight, high temperatures, and humidity. It is designed for indoor use only and is not water resistant.
- **Power:** Disconnect power before performing any cleaning or maintenance.
- **Remote Battery:** The IR remote requires a CR2 battery (included). Replace the battery when the remote's range or responsiveness decreases.

7. Troubleshooting

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

- **LED Strip does not light up:**

  - Ensure the power adapter is correctly connected to the controller and plugged into a working outlet.
  - Verify the LED strip is properly connected to the controller's RGB output port.
  - Check if the power adapter's voltage matches the LED strip's voltage requirement (5V/12V/24V).
  - Confirm the controller is powered on via the remote or app.

- **Remote Control is not working:**

  - Ensure the remote's battery is inserted correctly and has sufficient charge. Replace if necessary.
  - Point the remote directly at the IR receiver on the controller.
  - Remove any obstacles between the remote and the controller.

- **App cannot connect to the controller:**

  - Ensure your smartphone is connected to a 2.4GHz Wi-Fi network. The controller does not support 5.0GHz Wi-Fi.
  - Verify the controller is powered on and within range of your Wi-Fi router.
  - Try restarting the controller by unplugging and re-plugging its power.
  - If you changed your network IP or router, you may need to re-pair the controller with the app.

- **Colors do not match the remote/app selection (e.g., Red button shows Green):**

  - This can occur due to varying line orders (GRB, RGB, etc.) from different LED strip manufacturers.
  - In the Magic Home app, navigate to the settings for your device. Look for an option to reorder the color sequence (e.g., RGB, GRB, BGR). Adjust this setting until the colors match your expectations.

Image: A tip illustrating that the controller's default line sequence is GRB. If the colors do not match your LED strip, the user manual or app settings should be consulted to reorder the color output to match the strip's configuration.

8. WARRANTY AND SUPPORT

For any product-related inquiries, technical assistance, or support, please refer to the contact information provided with your purchase or visit the official RGBZONE website. Keep your purchase receipt for warranty claims, if applicable.