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## RGBZONE FB0510

# RGBZONE 2.4GHz WiFi LED Controller User Manual

Model: FB0510

## INTRODUCTION

This manual provides detailed instructions for the RGBZONE 2.4GHz WiFi LED Controller. This device offers versatile control over RGB LED light strips through both a 24-key IR remote and a smart application via Wi-Fi. It features music synchronization, various color modes, and a timer function, enhancing your lighting experience. Please read this manual thoroughly before operation to ensure proper installation and use.

## WHAT'S IN THE BOX

- 1 x 2 Ports IR LED Controller
- 1 x User Manual
- 1 x IR Remote Control

## SPECIFICATIONS

Feature	Detail
Brand	RGBZONE
Model Number	FB0510
Input Voltage	DC 5-24V
Max Output Power	100W
Control Method	Wi-Fi App Control, IR Remote Control
Wi-Fi Frequency	2.4GHz (Not compatible with 5GHz)
IR Remote Distance	5-8 meters

App Control Distance	Within 60 meters (Wi-Fi dependent)
Compatibility	RGB 4-PIN 10MM LED strips (e.g., 3528, 5050, 2835). Not for 3-pin or 5-pin LED strips.
Working Temperature	-20~55°C (Indoor use recommended)
Special Features	Dimmable, Timer, Lightweight, Color Changing, Music Sync
Dimensions	15.8 x 10.6 x 2 inches (Product packaging)
Item Weight	2.24 ounces

## SETUP

### 1. Controller Components Overview

Familiarize yourself with the main components of the LED controller for proper setup.

## 2 Ports LED Strip Light Music Controller



**WiFi Connection**

Voltage: DC 5-24V Current: 2A/Chanel

### 1. High-sensitivity microphone

The colors will sync with music or sound captured from mic

### 2. Compatible

Each can be used for RGB 4-Pin strip of 2-10M 5-24V



**Image:** Overview of the 2-Ports LED Strip Light Music Controller, highlighting its high-sensitivity microphone, compatibility with RGB 4-Pin strips, infrared sensor, and power supply connection point. The diagram also indicates the controller's dimensions.

- **1. High-sensitivity microphone:** Collects external sound for music synchronization.
- **2. Compatibility:** Designed for RGB 4-Pin LED strips (2-10M, 5-24V).
- **3. Infrared Sensor:** For receiving signals from the IR remote control. Ensure the remote is aligned with this sensor.
- **4. Power Supply Connection:** Connect your DC 5-24V power supply here. *Important: Input voltage must equal output voltage (e.g., use a DC5V power supply for DC5V LED strips). Power supply is not included.*

## 2. Connecting LED Strips and Power Supply

Follow these steps to connect your LED strips and power supply to the controller.



**Image:** Visual guide for connecting LED strips to the controller and the controller to a power supply. It emphasizes the "Arrow to Arrow" alignment for correct connection and to avoid short circuits.

- Connect your RGB 4-PIN LED strips (not included) to the controller's output ports.
- **Important Connection Notice:** Ensure the arrow on the LED strip connector aligns with the arrow on the controller's output port. Misalignment can lead to a short circuit or prevent the lights from illuminating.
- Connect a compatible DC 5-24V power supply (not included) to the controller's input port.

### 3. App Download and Wi-Fi Connection

Control your LED lights conveniently using the dedicated mobile application. The app is compatible with both iOS and Android smartphones.



**Image:** The "Convenient APP Control" image, displaying various functionalities of the mobile application including color selection, timer settings, music synchronization, and DIY customization options. It also indicates availability on Google Play and the Apple App Store.

1. **Download the App:** Scan the QR code below or visit <http://app.magichue.net/download/mgchomepro/AppDown.aspx> to download the "Magic Home Pro" free app.



2. **Register/Login:** Register or log in to your Magic Home account within the app.
3. **Connect to Wi-Fi:**
  - Open the app and click the "+" button on the top right corner.
  - Select "connect device to Wi-Fi network".
  - Open your phone's Wi-Fi settings and connect to the "LEDnetxxxx" signal.
  - If you cannot find the "LEDnetxxxx" signal, reset your controller by unplugging and plugging it back in 3 times consecutively.

- After successful connection to "LEDnetxxx", return to the Magic Home Pro app to complete the setup.

**Important Wi-Fi Note:** The controller only supports **2.4GHz** wireless networks. It is not compatible with 5GHz networks. Ensure your phone is connected to a 2.4GHz Wi-Fi network during setup.



**Image:** A visual representation clarifying that the controller only supports 2.4GHz Wi-Fi, not 5GHz.

## OPERATING INSTRUCTIONS

### 1. Using the IR Remote Control

The included 24-key IR remote control provides direct access to various lighting functions. Ensure the plastic film is removed from the battery compartment before first use. The remote uses a CR2025 battery, which is replaceable.



**Image:** Detailed layout of the 24-key IR remote control, illustrating the function of each button for light control, music activation, timing, speed, brightness, and color selection.

- **On/Off:** Turn the lights on or off.
- **Music Activation Mode:** Buttons labeled 1, 2, 3 to activate different music modes.
- **Timing Off Mode:** Buttons for 1H, 2H, 3H to set a timer for the lights to turn off.
- **Speed Increase/Decrease:** Adjust the speed of dynamic lighting modes.
- **Brightness Dimming:** Adjust the brightness level.
- **Dynamic Mode:** Cycle through various dynamic lighting effects.
- **Static Color Options:** Select from 9 preset static colors (Red, Green, Blue, Yellow, Cyan, Purple, White, etc.).

**Remote Control Range:** The IR remote control has an effective distance of 5-8 meters and requires direct alignment with the controller's infrared sensor.



**Image:** The remote control with its battery tray pulled out, revealing the CR2025 coin cell battery. This illustrates how to replace the battery.

## 2. App Control Features

The Magic Home Pro app offers extensive control and customization options for your LED lights.

- **Color Mode:** Choose from 16 million colors using a color wheel, or select from preset colors.
- **Timer Mode:** Set schedules for your lights to turn on/off at specific times, or change colors automatically.

08:00 AM  
Wake Up and Lighting On

09:00 AM  
Leave Home and Lighting Off

21:00 PM  
Reading and Lighting On

23:00 PM  
Steap and Lighting Off

14:28  
5G

Back Timer +

Current Device Time  
Mar 11, 2023 at 14:28:10

Timer List [Add Timer...](#)

You have not added any timer

Note:  
The timer will not work if you turn off the smart device via switch or there is a power outage, Please start app to synchronization timer.

## With Timer Function

This led light strips allow you to pre-set time to turn on/off led lights and change color at certain times, just enjoy it in a smart way

**Image:** The app's timer function interface, demonstrating how users can pre-set times for lights to turn on, off, or change color, enabling smart automation.

- **Music Sync:** Synchronize your lights with music. There are two methods:
  - **Built-in Microphone:** The controller's integrated microphone captures ambient sound, making the lights react to music or voice.



**Image:** The "Mic Mode" feature, illustrating how the controller's built-in high-sensitivity microphone enables lights to sync with external music or sound, creating a dynamic visual experience.

- **App Music Control:** Play music through the app on your phone, and the lights will change rhythmically with the music.



## MUSIC MODE (App and IR Remote Controller Control)



Music sync allows you to automatically change the lights to match your music



You can switch between phone microphone and external microphone freely

**Image:** The "Music Mode" in action, showing how both the app and IR remote can control lights to sync with music, allowing users to switch between phone microphone and external microphone freely.

- **DIY Mode:** Create and save your own custom lighting effects and color sequences.

## TROUBLESHOOTING

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### Color Mismatch (Remote vs. LED Strip)

If pressing a color button on the remote (e.g., Red) results in a different color on the LED strip (e.g., Green or Blue), you may need to adjust the output channel sequence.



#### Download steps:

- Scan the below QR code to download Magic Home free APP
- Register/Login your Magic Home account.
- Open the App and Click "+" button on top right corner, then select "connect device to Wi-Fi network".
- Open phone Wi-Fi interface and connect to the "LEDnetxxxx" signal. (If can't find, please reset your controller, turn it on & off for 3 times). After successful connection, go back to the Magic Home Pro APP.

**Image:** Guide for resolving color mismatches between the remote and LED strip by changing the controller's output channel sequence.

#### 1. Step 1: Adjusting via Controller Power Cycle

- Unplug the controller's power supply, then plug it back in.
- When the light illuminates, quickly long-press the **B** button on the remote for 2 to 3 seconds. A flickering white light indicates the output channel has successfully changed to BRG sequence.
- Similarly, long-press the **G** button to change the channel to GRB sequence.
- Long-press the **R** button to set the channel to RGB sequence.

#### 2. Step 2: Adjusting via App

If the color mismatch persists, you can modify the pin sequence through the Magic Home Pro app settings.

### General Troubleshooting Tips

#### • Lights not turning on:

- Ensure the power supply is correctly connected and providing the correct voltage (DC 5-24V) for your LED strips.
- Verify that the "Arrow to Arrow" alignment is correct when connecting the LED strips to the controller.
- Check if the remote control's battery (CR2025) is inserted correctly and has sufficient charge. Remove the plastic film if it's new.

#### • Remote control not responding:

- Ensure direct line of sight between the remote and the controller's IR sensor.
- Check and replace the CR2025 battery if necessary.

#### • App connection issues:

- Confirm your Wi-Fi network is 2.4GHz, not 5GHz.
- Ensure your phone is connected to the "LEDnetxxxx" Wi-Fi signal during the initial setup phase.
- Try resetting the controller by unplugging and plugging it back in 3 times.
- Restart your phone and Wi-Fi router.

#### • Music sync not working:

- If using the built-in microphone, ensure there is sufficient ambient sound for the controller to pick up.
- If using app music control, ensure music is playing through the app and your phone's volume is adequate.

## MAINTENANCE

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

- Keep the controller and remote clean by wiping them with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure the controller is used in an indoor environment within the specified working temperature range (-20~55°C). Avoid exposure to extreme temperatures, humidity, or direct water.
- Periodically check all connections (LED strips, power supply) to ensure they are secure and free from damage.
- If the remote control's range decreases or buttons become unresponsive, replace the CR2025 battery.

## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact RGBZONE customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase. For app-related queries or further assistance, you may also visit the Magic Home Pro app's support section or their official website.