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MIWISE M-RGBICSP548E-1

MIWISE WiFi+Bluetooth Music Pixel LED Smart Controller SP548E User Manual

Model: SP548E

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1. INTRODUCTION

The MIWISE SP548E is a versatile WiFi+Bluetooth Music Pixel LED Smart Controller designed for addressable LED strip lights. It offers multiple control methods including a mobile application, RF remote control, and voice commands via Alexa or Google Assistant. This controller supports various LED driver chips such as WS2811, WS2812B, US1903, and WS2801, managing up to 1200 pixels. Key features include music rhythm synchronization, a wide array of dynamic and static color effects, color DIY customization, and a timer function.



Figure 1.1: MIWISÉ SP548E Controller, RF Remote, and BanlanX App Interface.

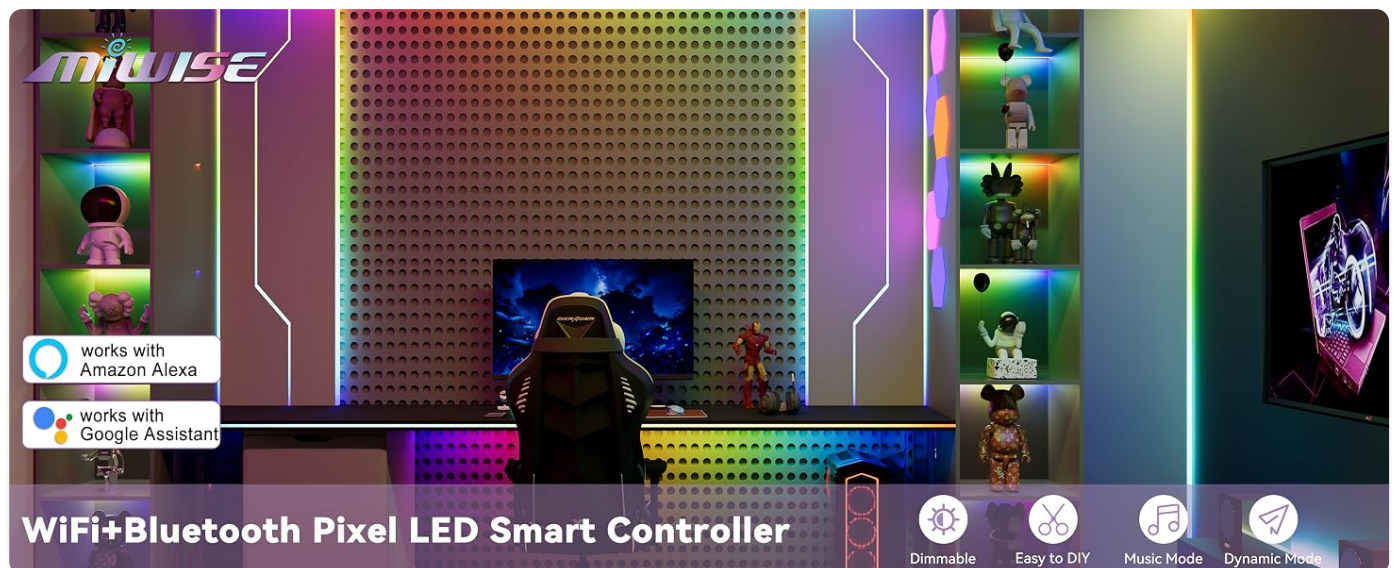


Figure 1.2: The MIWISÉ SP548E controller seamlessly integrates into various environments, providing smart lighting control.

2. SETUP GUIDE

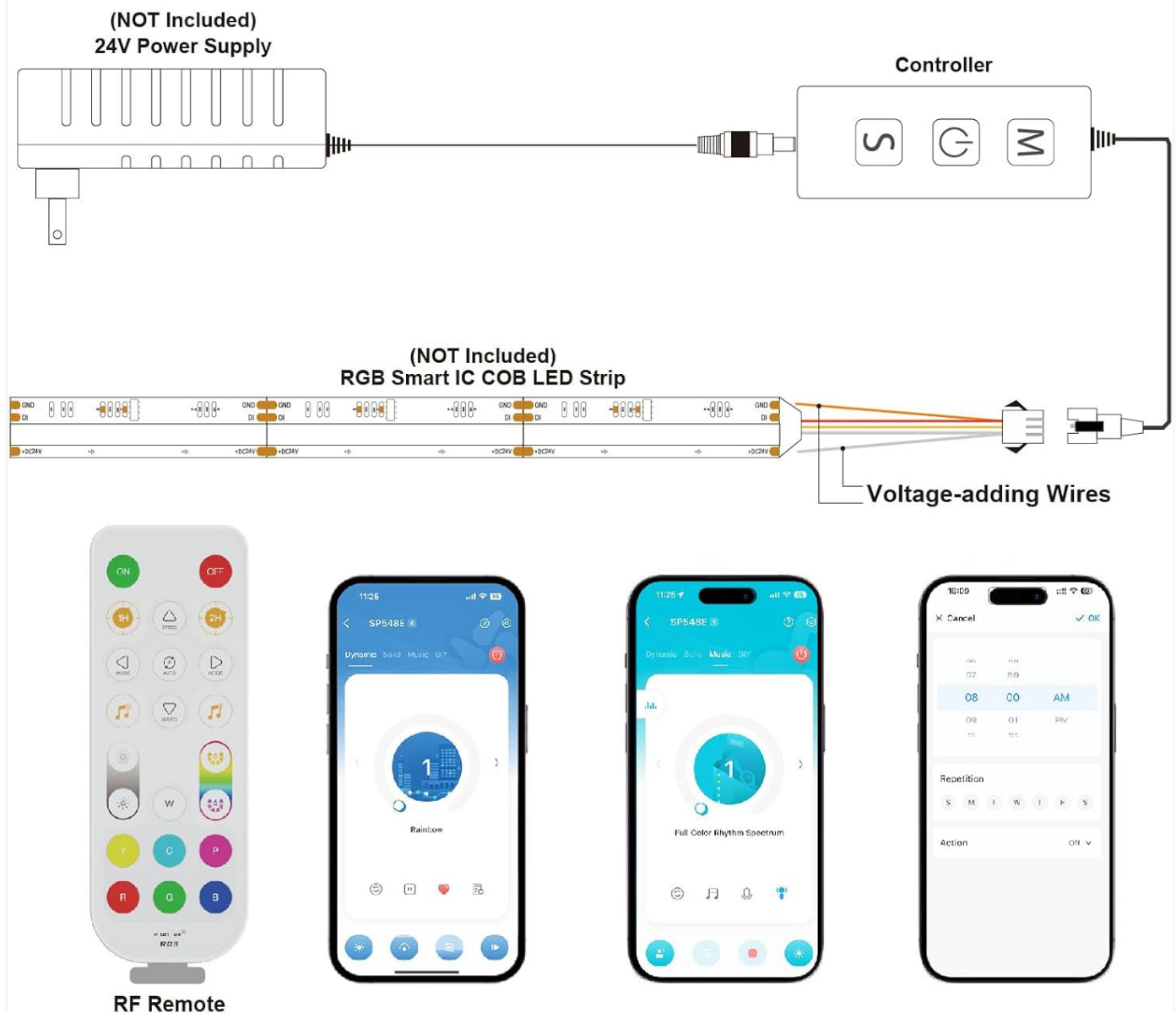
2.1 Package Contents

- MIWISE SP548E Controller Box
- RF Remote Control
- User Manual

2.2 Connection Diagram

Follow the diagram below to correctly connect your MIWISE SP548E controller to the power supply and LED strip. Ensure the output voltage of the LED strip and power supply are identical (e.g., for a 24V LED strip, use a DC24V power supply).

Connection Diagram



Note: Please pull out the insulation sheet when you use the remote.

Figure 2.1: Connection diagram showing the controller, power supply (not included), RGB Smart IC COB LED Strip (not included), and voltage-adding wires.

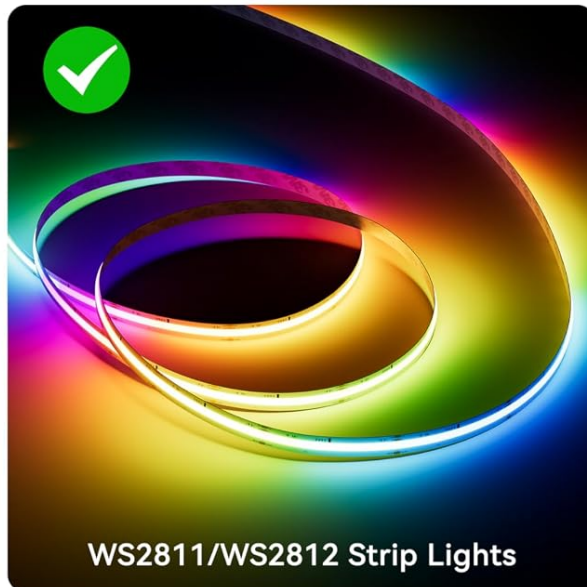
2.3 Applicable LED Strip Types

The SP548E controller is designed specifically for 5V-24V 3PIN SPI RGB LED Strip Lights. It is not compatible with

traditional RGB strip lights or 2700K-6500K Tunable Strip Lights.

Applicable Strip Light Types

Only for **5V-24V 3PIN** SPI RGB LED Strip Lights,
Not suitable for traditional RGB strip lights



WS2811/WS2812 Strip Lights



WS2811/WS2812B String



RGB LED Strip Light



2700K-6500K Tunable Strip Lights

Figure 2.2: Visual guide for compatible LED strip types (WS2811/WS2812 Strip Lights and WS2811/WS2812B String) and incompatible types (RGB LED Strip Light and 2700K-6500K Tunable Strip Lights).

2.4 App Download and Device Pairing

To control the device via smartphone, download the "BanlanX" app from the App Store (iOS) or Google Play (Android 4.4/IOS 1.0 or higher). Ensure all devices are connected to the same 2.4 GHz Wi-Fi network for optimal performance.



Figure 2.3: Steps to add your MIWISE SP548E device within the BanlanX application.

2.5 RF Remote Control Initial Use

Before using the RF remote control, pull out the insulation sheet from the battery compartment.

3. OPERATING INSTRUCTIONS

3.1 Control Methods

The MIWISE SP548E controller offers four primary control methods:

- **App Control:** Use the BanlanX app on your smartphone.
- **RF Remote Control:** Use the included 2.4G RF remote.
- **Control Box:** Manual control via buttons on the controller box.
- **Voice Control:** Compatible with Alexa and Google Assistant.

4 WAYS TO CONTROL

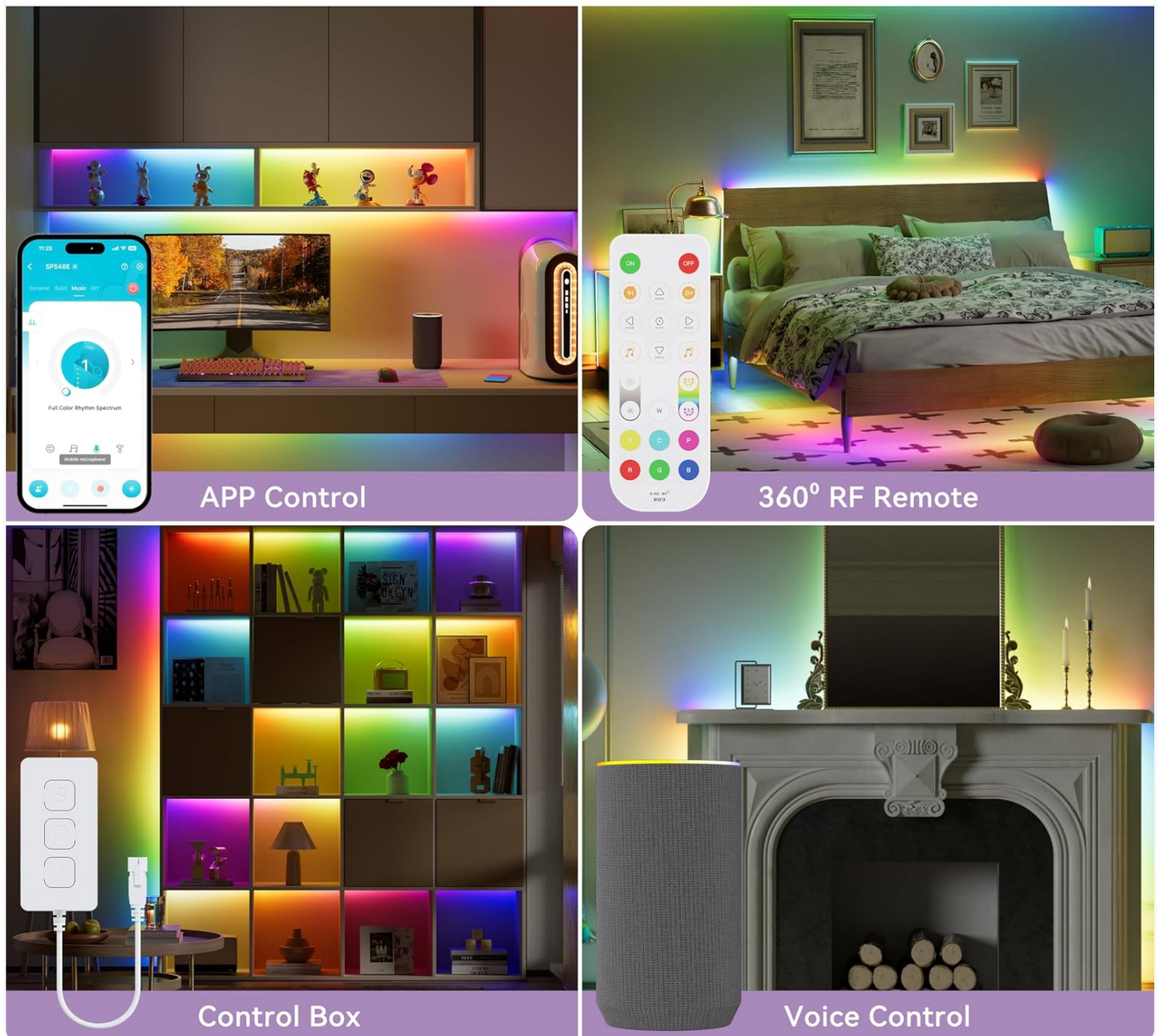


Figure 3.1: Overview of the four control methods: App Control, 360° RF Remote, Control Box, and Voice Control.

3.2 Voice Control Integration

To enable voice control, add the "BanlanX" skill to your Alexa or Google Assistant application. You can then use voice commands such as "Alexa, turn on the RGB strip light."

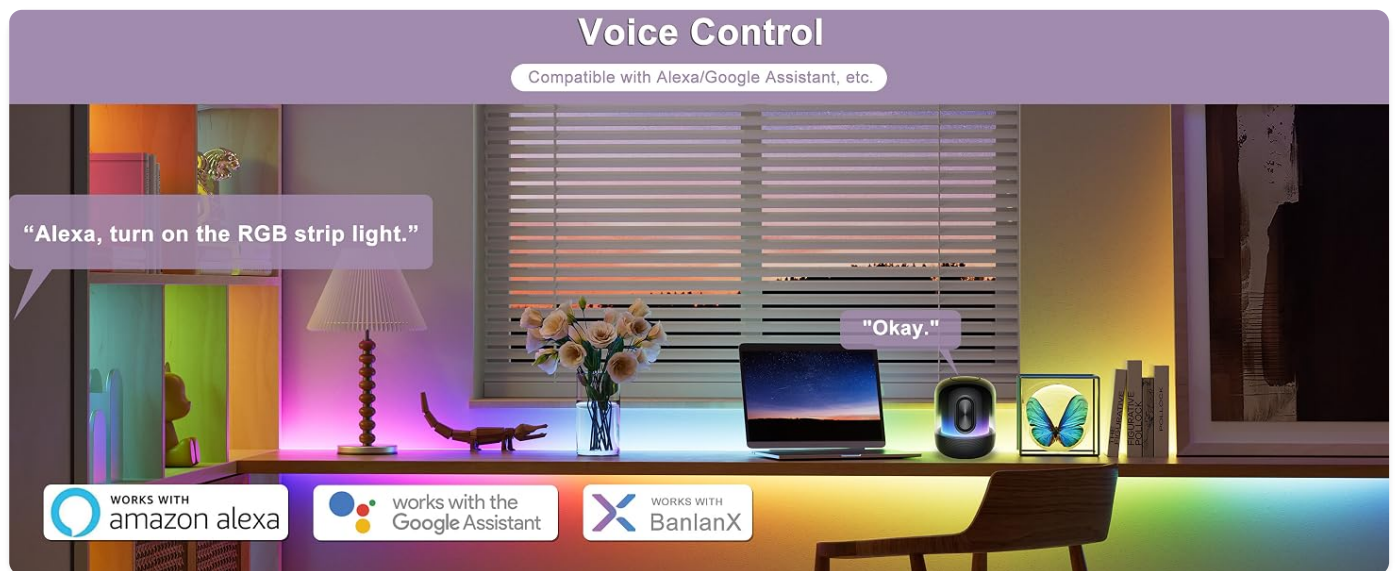


Figure 3.2: The controller supports voice commands through Amazon Alexa and Google Assistant for convenient operation.



Figure 3.3: Step-by-step guide to connect your device to Alexa for voice control.

3.3 Music Rhythm Synchronization

The controller features a built-in high-sensitivity microphone that allows the lights to automatically adjust to ambient sound. There are 18 music effects available, with three types of capture: phone microphone, player streaming, and built-in microphone.

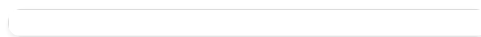


Figure 3.4: The controller can synchronize light effects with music from various sources.

3.4 Dynamic Effects and Static Colors

Explore 146 built-in dynamic effects, including rainbow, twinkling stars, and waves. You can adjust the speed, effect length, and brightness. The controller also offers numerous static color effects, allowing direct RGB value sliding for precise color selection. You can collect up to 9 favorite effects for quick access.

APP:BanlanX APP

supports three connection
methods: Bluetooth, WiFi, and remote cloud



Figure 3.5: The BanlanX app and RF remote offer access to over 100 dynamic lighting modes.

3.5 Color Customization (DIY)

The BanlanX app allows you to create custom solid or gradient DIY color effects. You can vary the length of the color in the strip light by setting the pixel count.

Color Customization

You can DIY the color effect you want in the APP. By setting the pixel count, the length of the color in the strip light can be varied.



Figure 3.6: Customize your lighting with DIY color effects and adjust pixel counts for varied color lengths.

3.6 Brightness Adjustment

Adjust the brightness of your LED strip lights to suit your preference using the app or remote control.



Figure 3.7: Adjust brightness and select solid colors for your LED strip lights.

3.7 Timer Function

Set up to 5 timers to automatically turn the LED strip on or off at specific times each day, with the option to choose a desired light effect. Note that the controller must remain powered on for the timer function to work; cutting power will clear alarm records.

Memory Function

Remember your setting after turning off and back on.



Timer Function

Set timer to turn off led cob strip automatically.

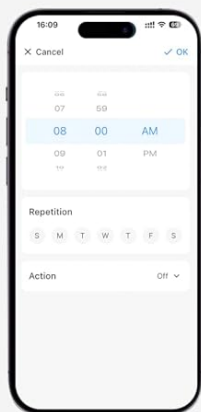


Figure 3.8: The controller features a timer function to schedule automatic turn on/off times.

3.8 Memory Function

The controller retains your last settings even after a power failure, ensuring your preferred lighting configuration is restored when power returns.

Remember your setting after turning off and back on.



Figure 3.9: The controller remembers your last settings after being turned off and back on.

3.9 Group Control

Use the BanlanX mobile app to control multiple groups of strip lights simultaneously, ideal for larger installations or multi-room setups.



How to Add Your Device

Note: Make sure all devices are connected to the same 2.4 GHz Wi-Fi.

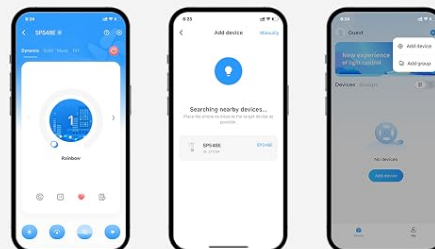


Figure 3.10: Manage multiple groups of LED strip lights concurrently using the BanlanX app.

4. MAINTENANCE

4.1 RF Remote Battery Replacement

The RF remote control uses a CR2025, 3V lithium coin cell battery. To replace it:

1. Puncture the white plastic piece on the remote.
2. Pull the battery tray outward to remove the old battery.
3. Insert a new CR2025 battery with the positive (+) side facing up.
4. Slide the tray back into the remote until it clicks into place.

HOW TO REPLACE THE BATTERY

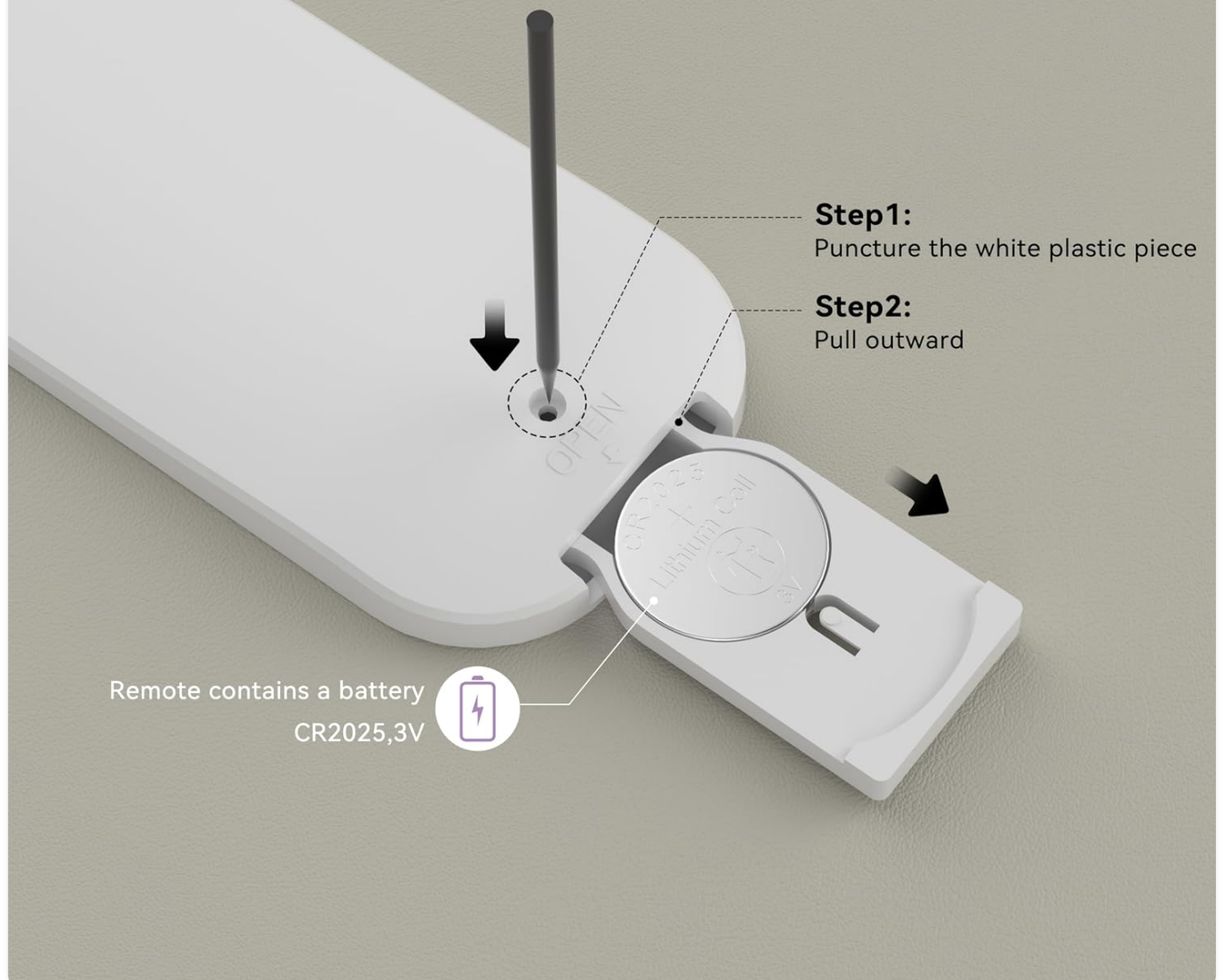


Figure 4.1: Instructions for replacing the CR2025 battery in the RF remote control.

4.2 General Care

- Keep the controller and remote in a dry environment.
- Avoid exposing the devices to extreme temperatures or direct sunlight.
- Clean the surfaces with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LED strip effect is stuck or the end is dim.	Voltage drop along the LED strip.	Add voltage to the LED strip using voltage-adding wires. Ensure your power supply provides sufficient current for the entire strip length.
Controller not responding or showing random colors.	Incorrect connection, app synchronization issue, or power supply problem.	Verify all connections are secure according to the connection diagram. Restart the BanlanX app and the controller. Ensure the power supply voltage matches the LED strip's requirements.
Cannot connect to the BanlanX app.	Incorrect Wi-Fi band, Bluetooth issue, or app permissions.	Ensure your smartphone and controller are connected to a 2.4 GHz Wi-Fi network. Check Bluetooth settings on your phone. Grant necessary permissions to the BanlanX app. Try restarting your phone and the controller.
RF Remote not working.	Battery insulation sheet not removed or low battery.	Ensure the insulation sheet has been removed from the remote's battery compartment. Replace the CR2025 battery if necessary.
Timer function not working after power cycle.	Controller lost power.	The controller must remain powered on for the timer function to retain settings. Do not cut power to the controller if you wish to keep timer settings.

6. SPECIFICATIONS

Feature	Detail
Model Number	M-RGBICSP548E-1
Brand	MIWISE
Color	RGB (Red, Green, Blue)
Indoor/Outdoor Usage	Indoor
Special Features	Dimmable, Music Mode, Addressable
Light Source Type	COB
Power Source	Corded Electric
Voltage	24 Volts (DC)
Wattage	72 watts
Controller Type	Remote Control, Voice Control

Feature	Detail
Control Method	App
Max Pixels Controlled	1200 pixels
Compatible IC Models	WS2811, WS2812B, US1903, WS2801, etc.
Item Weight	2.08 ounces
Package Dimensions	8.11 x 4.21 x 0.51 inches
UPC	717994169520

7. WARRANTY & SUPPORT

MIWISE is committed to providing high-quality products and excellent services. The product includes a 5-Year Warranty, guaranteeing durability.

7.1 Customer Support

If you encounter any problems while using this product, please contact MIWISE customer support. They will reply as soon as possible and assist you with resolving any issues.

- **Dedicated Support Email:** support@miwiseled.com

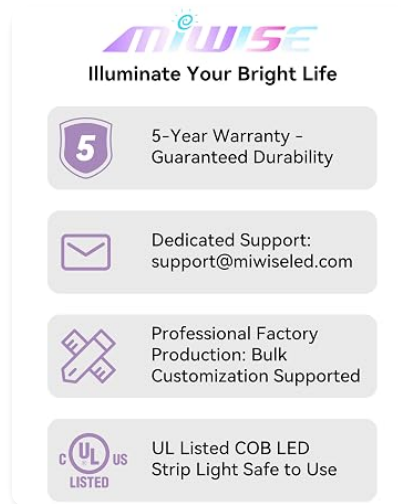


Figure 7.1: MIWISE offers a 5-year warranty and dedicated customer support.

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and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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