

RGBZONE 24-Key RF Smart WiFi LED Controller

RGBZONE 24-Key RF Smart WiFi LED Controller Instruction Manual

Model: 24-Key RF Smart WiFi LED Controller

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RGBZONE 24-Key RF Smart WiFi LED Controller. This controller is designed for use with 5V/12V/24V RGB LED strip lights (5050, 3528, 5630 types) and offers both RF remote control and Wi-Fi smart control capabilities, including compatibility with Amazon Alexa and Google Home.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x RF LED Controller
- 1 x RF Remote Control (Note: 1 CR2 battery required, not included)
- 1 x User Manual
- 1 x 4-Pin Connector

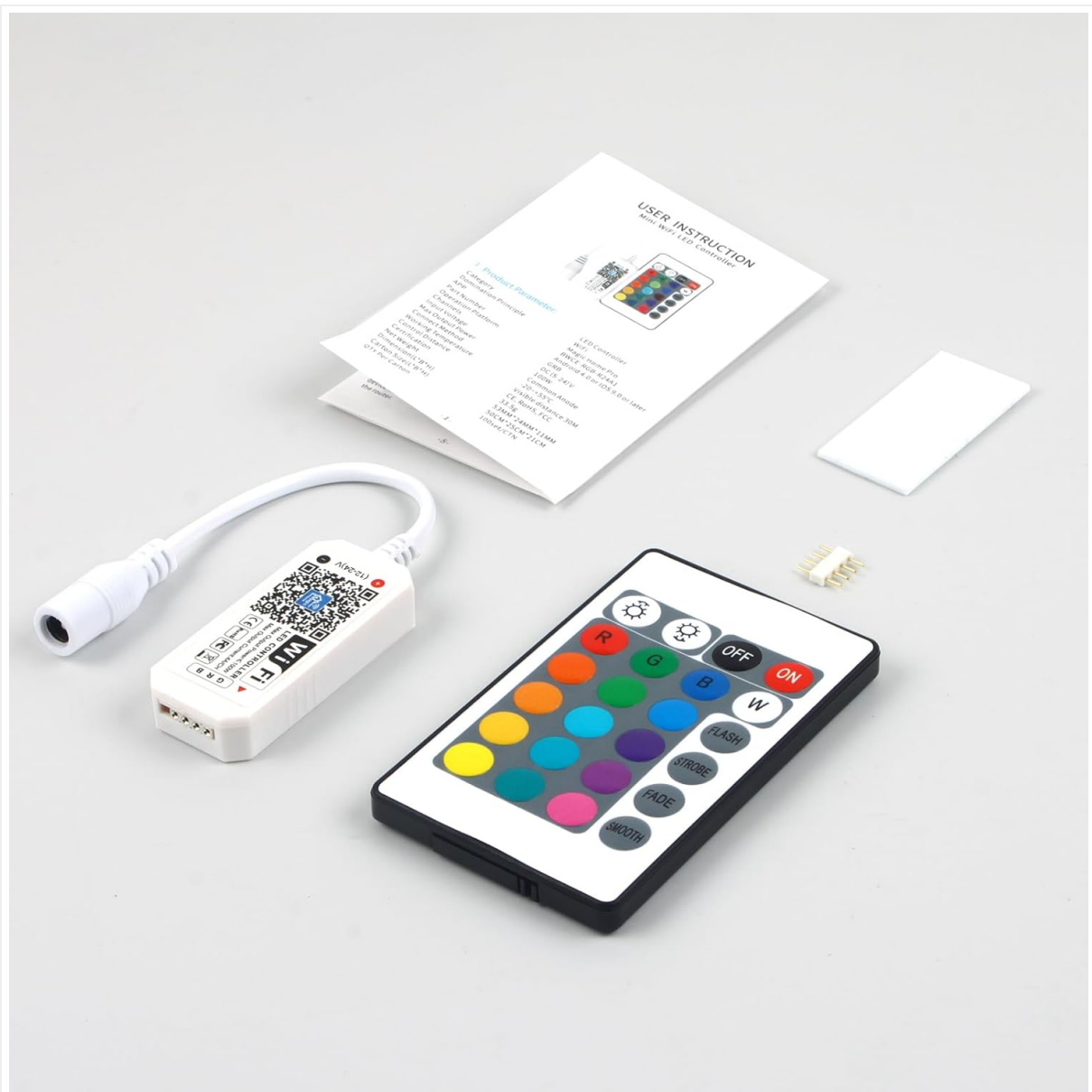


Image: Contents of the RGBZONE LED Controller package, showing the controller unit, RF remote, and user manual.

3. PRODUCT OVERVIEW



Image: The RGBZONE RF Smart WiFi LED Controller and its accompanying 24-key RF remote control.

3.1 Controller Unit

The controller unit is the central component for managing your LED strip lights. It connects to your power adapter and LED strip, and communicates with the RF remote and your Wi-Fi network for smart control.

3.2 RF Remote Control

The 24-key RF remote control allows for direct operation of your LED strip lights without needing line-of-sight. It provides basic functions such as power on/off, color selection, brightness adjustment, and mode changes.

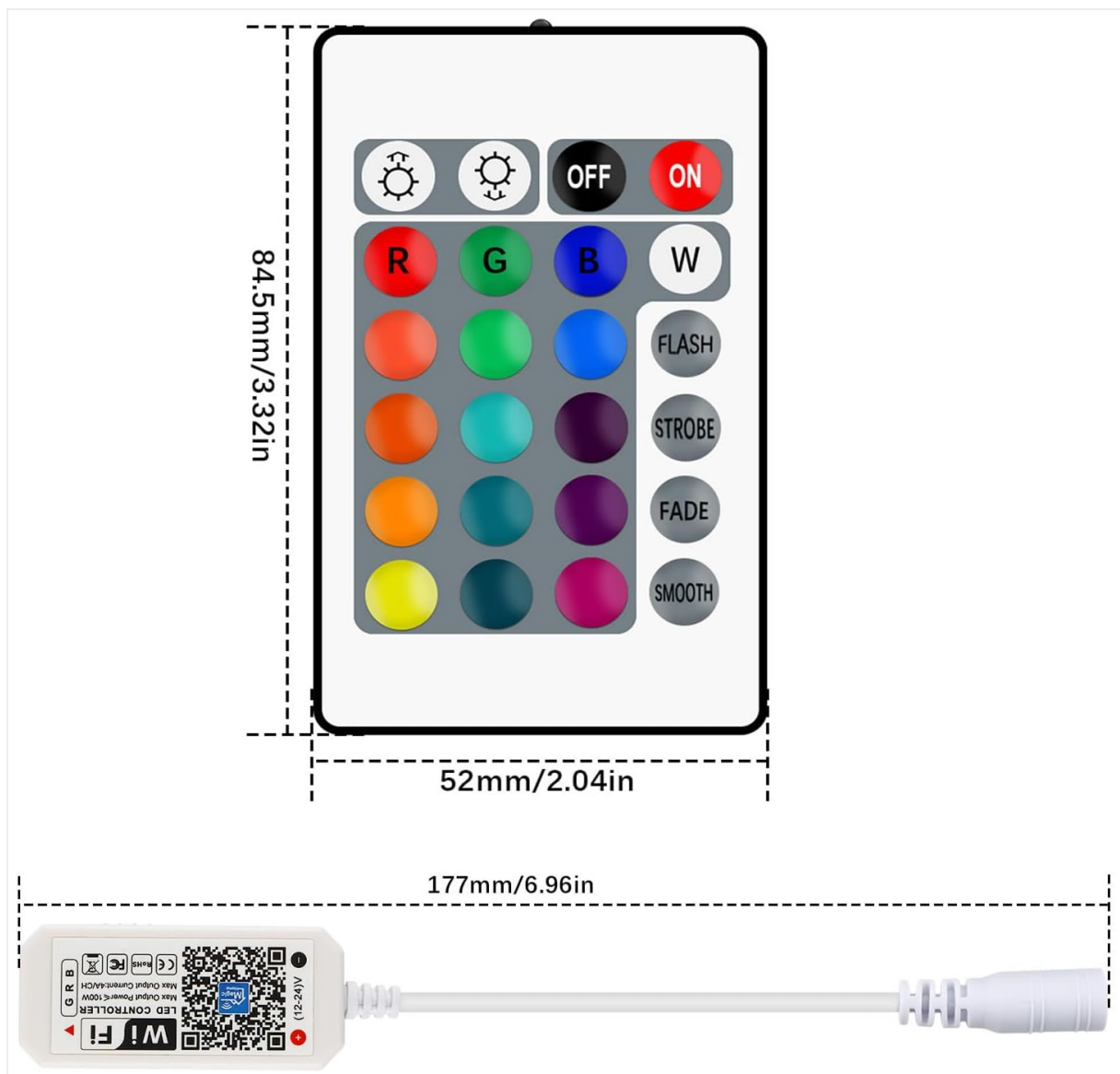


Image: Detailed dimensions of the RGBZONE LED Controller and the 24-key RF remote control.

4. SETUP AND INSTALLATION

4.1 Hardware Connection

1. **Connect to Power Adapter:** Plug your DC 5V/12V/24V power adapter into the input jack of the LED controller. Ensure the power adapter is suitable for your LED strip's voltage and wattage requirements.
2. **Connect to LED Strip:** Connect the 4-pin connector from your RGB LED strip to the output port of the controller. Ensure the pins are aligned correctly (usually marked with arrows or +/R/G/B).



Image: Step-by-step visual guide for connecting the LED controller to a power adaptor and an LED strip.

4.2 Remote Control Pairing

The remote control may need to be paired with the controller or have its code cleared for proper operation.

- **Code Matching (Pairing):** Within 5 seconds after the controller is powered on, press and hold the "ON" key on the RF remote. The LED strip lights will flash slowly to indicate successful pairing.
- **Code Clearing (Unpairing):** Within 5 seconds after the controller is powered on, press and hold the "OFF" key on the RF remote. The LED strip lights will flash quickly to indicate successful code clearing.

4.3 Wi-Fi App Setup

To enable smart control features, download the companion app and connect the controller to your Wi-Fi network. **Note: This Wi-Fi controller is not compatible with 5.0GHz networks; use a 2.4GHz Wi-Fi network.**

1. **Download the App:** Scan the QR code on the controller unit or visit <http://app.magichue.net/download/mgchomepro/AppDown.aspx> to download the "Magic Home Pro" app.
2. **Register/Login:** Open the app and follow the on-screen instructions to register an account or log in.
3. **Add Device:** Power on the LED controller. In the app, select "Add Device" or the "+" icon.

4. **Connect to Wi-Fi:** Follow the app's instructions to connect the controller to your 2.4GHz Wi-Fi network. This typically involves selecting your Wi-Fi network and entering the password.



Image: Visual representation of connecting the LED controller to a home Wi-Fi network via the mobile application.

5. OPERATING INSTRUCTIONS

5.1 Using the RF Remote Control

The 24-key RF remote provides quick access to various lighting functions:

24 Keys Wireless Remote Control



16 Color Selection



Wireless Control



Battery Included

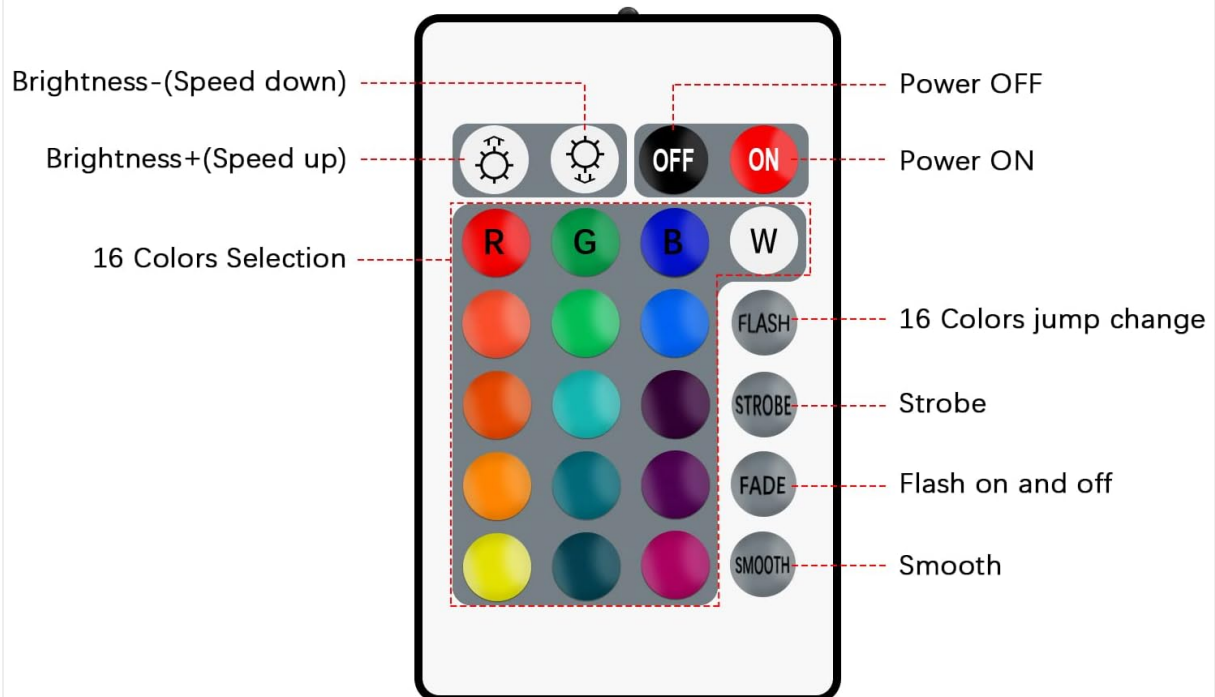


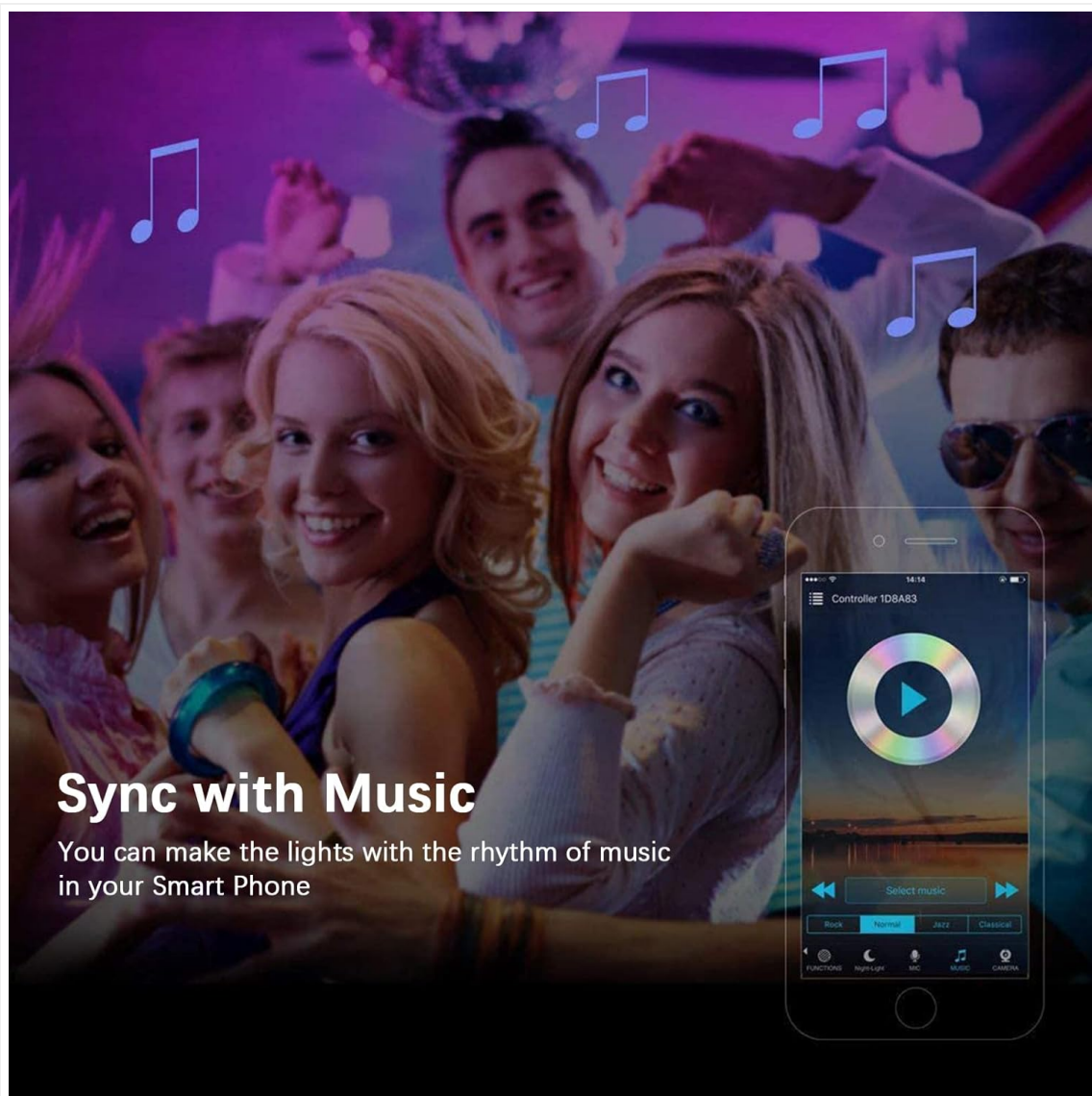
Image: Detailed diagram of the 24-key RF remote control, indicating button functions for power, brightness, color selection, and dynamic modes.

- **ON/OFF:** Power the LED strip on or off.
- **R/G/B/W:** Directly select Red, Green, Blue, or White light.
- **Color Buttons:** Select from 16 preset colors.
- **Brightness +/-:** Adjust the brightness level of static colors.
- **FLASH:** Activates a rapid color changing mode.
- **STROBE:** Activates a slower, pulsating color changing mode.
- **FADE:** Activates a smooth transition between colors.
- **SMOOTH:** Activates a very gradual and smooth color transition.

5.2 Using the Mobile App (Magic Home Pro)

The "Magic Home Pro" app unlocks advanced features and greater control over your LED strip lights.

- **Color Selection:** Choose from a full spectrum of colors using a color wheel.
- **Brightness & Saturation:** Fine-tune light intensity and color vibrancy.
- **Dynamic Modes:** Access various pre-programmed dynamic lighting effects.
- **Music Sync:** Synchronize your LED lights with music playing on your smartphone.



Sync with Music

You can make the lights with the rhythm of music in your Smart Phone

Image: Illustration of the music synchronization feature, where LED lights change in rhythm with music played from a smartphone.

- **Group Control:** Control multiple Wi-Fi LED controllers simultaneously by creating groups within the app.
- **Time Setting:** Schedule lights to turn on/off at specific times, or set routines for waking up or going to bed.
- **Scene Creation:** Create and save custom lighting scenes for different moods or occasions.

Three ways to operate



Image: A visual summary of the controller's smart features: voice control, music synchronization, time scheduling, and wireless app control.

5.3 Voice Control (Alexa & Google Home)

Integrate your LED controller with Amazon Alexa or Google Home for convenient voice command operation.

1. **Link Account:** In your Alexa or Google Home app, search for the "Magic Home Pro" skill/service and link your account.
2. **Discover Devices:** Once linked, ask your voice assistant to "Discover devices."
3. **Voice Commands:** You can now use voice commands to control your lights. Examples:
 - "Alexa, turn on the living room light."
 - "Hey Google, set the bedroom light to blue."
 - "Alexa, dim the kitchen lights to 50 percent."



Image: An example of voice control integration, showing a Google Home device controlling LED lights via the RGBZONE controller.

6. MAINTENANCE

The RGBZONE LED Controller requires minimal maintenance. Keep the unit clean and dry. Avoid exposing it to extreme temperatures or moisture. Do not attempt to open or repair the controller, as this will void any potential warranty.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LED strip does not light up.	<ul style="list-style-type: none">◦ No power to controller.◦ Incorrect voltage power supply.◦ Incorrect connection to LED strip.◦ Remote not paired.	<ul style="list-style-type: none">◦ Check power adapter and outlet.◦ Ensure power supply matches LED strip voltage (5V/12V/24V).◦ Verify 4-pin connector is correctly inserted and aligned.◦ Perform remote control pairing (Section 4.2).
Remote control not working.	<ul style="list-style-type: none">◦ Battery low or not inserted.◦ Remote not paired.	<ul style="list-style-type: none">◦ Replace CR2 battery. Ensure correct polarity.◦ Perform remote control pairing (Section 4.2).
Wi-Fi connection issues.	<ul style="list-style-type: none">◦ Connected to 5.0GHz Wi-Fi.◦ Incorrect Wi-Fi password.◦ Controller too far from router.	<ul style="list-style-type: none">◦ Ensure you are connecting to a 2.4GHz Wi-Fi network.◦ Double-check Wi-Fi password in the app.◦ Move controller closer to the Wi-Fi router.◦ Restart controller and try app setup again.
Voice control not responding.	<ul style="list-style-type: none">◦ Account not linked.◦ Device not discovered.◦ Incorrect device name.	<ul style="list-style-type: none">◦ Verify "Magic Home Pro" skill/service is linked in Alexa/Google Home app.◦ Ask voice assistant to "Discover devices."◦ Ensure you are using the correct device name configured in the app.

8. SPECIFICATIONS



Feature	Detail
Brand	RGBZONE
Model	24-Key RF Smart WiFi LED Controller
Input Voltage	DC 5V/12V/24V
Max Output Current	4A/CH (Channel)
Max Output Power	144 Watts (Maximum Compatible Wattage)
Control Method	RF Remote, Wi-Fi App (Magic Home Pro), Voice Control (Alexa, Google Home)
Wi-Fi Compatibility	2.4GHz Wi-Fi only (Not compatible with 5.0GHz)
Light Source Type	LED (RGB)
Compatible LED Strips	5050, 3528, 5630 RGB LED Strip Lights
Item Dimensions (L x W x H)	0.98 x 0.98 x 0.87 inches
Item Weight	1.44 ounces

Feature	Detail
Remote Battery Required	1 x CR2 battery (not included)

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact RGBZONE customer service through their official channels. Keep your purchase receipt for warranty claims.

Related Documents - 24-Key RF Smart WiFi LED Controller

	V-TAC LED Strip Lights: Safety, Installation, and Specifications Manual Official instruction manual for V-TAC LED Strip Lights. Includes essential safety warnings, step-by-step installation guides, connection diagrams for single color and RGB strips, cutting instructions, IP rating details, and a comprehensive table of specifications for models like VT-3528, VT-5050, VT-2835, and more.
	12~24V RGB LED Light Strip (WiFi) User Manual & Guide Comprehensive guide for the 12~24V RGB LED Light Strip (WiFi) by Surmountor, covering product description, specifications, app usage (IoT Life), network configuration, smart speaker integration (Alexa, Google Home), and troubleshooting.
	Govee H618A RGBIC LED Strip Lights User Manual Detailed user manual for the Govee H618A RGBIC LED Strip Lights, covering safety instructions, installation, app pairing, voice control, specifications, and troubleshooting.
	Govee H618C RGBIC LED Strip Lights User Manual Comprehensive user manual for the Govee H618C RGBIC LED Strip Lights. Provides detailed instructions on safety, installation, setup via the Govee Home app, voice control integration with Alexa and Google Assistant, technical specifications, and troubleshooting common issues. Learn how to create vibrant lighting effects for your space.
	MOES WLS-CL-TV Smart LED Strip Lights Instruction Manual Comprehensive instruction manual for the MOES WLS-CL-TV Smart LED Strip Lights, covering setup, Wi-Fi connection, app usage, voice control, troubleshooting, and warranty information. Compatible with Alexa and Google Assistant.
	Govee RGB LED Strip Lights H6154 User Manual This document provides safety instructions, an introduction, remote controller guide, installation steps, app pairing instructions, voice control guidance, specifications, and troubleshooting for the Govee RGB LED Strip Lights Model H6154.