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> ALITOVE Permanent Outdoor LED Strip Lights 100FT (Model WS2811-30M-FGY30-24V) Instruction Manual

## ALITOVE WS2811-30M-FGY30-24V

# ALITOVE Permanent Outdoor LED Strip Lights 100FT

Model: WS2811-30M-FGY30-24V

Brand: ALITOVE

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your ALITOVE Permanent Outdoor LED Strip Lights. These 100FT (30M) RGB IC LED strip lights are designed for outdoor use, featuring IP67 waterproofing, 24V low voltage operation, and smart control via app or remote. Each strip incorporates an IC chip, allowing for multiple colors to be displayed simultaneously, enhancing dynamic lighting effects.

## 2. SAFETY INFORMATION

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- **Power Supply:** Use only the provided 24V adapter. Connecting to an incorrect voltage may damage the product and pose a safety risk.
- **Waterproofing:** The LED strip lights are IP67 waterproof, suitable for outdoor environments. Ensure all connections to the power adapter and controller are secure and protected from direct water exposure if not rated for it.
- **Installation:** Do not install the lights in areas where they may be submerged in water for extended periods. Avoid piercing or damaging the strip during installation.
- **Cutting:** The LED strip can be cut only at designated cut marks (every 20cm). Cutting at other points will damage the strip and void the warranty.
- **Heat:** Do not cover the LED strips with materials that could trap heat, as this may reduce their lifespan.
- **Children:** Keep the product and its components out of reach of children.

## 3. PACKAGE CONTENTS

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

- 1 x 100ft (30M) LED Strip Light
- 1 x 24V Power Adapter

- 1 x LED Controller
- 90 x Mounting Clips
- 180 x Screws

**Note:** This product does not include adhesive backing. Mounting clips and screws are provided for secure installation.



Image: Package contents and LED strip dimensions. The image displays the coiled 100ft LED strip, a remote controller, a 24V power adapter with its power cord, and a detailed view of the LED strip indicating a cutting interval of 20cm (7.9in) and its cross-sectional dimensions (6mm light-emitting area, 15mm width).

## 4. SETUP INSTRUCTIONS

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1. **Plan Your Layout:** Before installation, unroll the LED strip and plan the desired path. Ensure the length is sufficient for your application.
2. **Mounting the Strip:** Use the provided mounting clips and screws to secure the LED strip to your desired surface. Space the clips evenly to ensure the strip is held firmly. The strip is flexible and can be bent to fit corners and contours.
3. **Connect the Controller:** Connect the LED strip to the LED controller. Ensure the connectors are aligned correctly and securely fastened.
4. **Connect the Power Adapter:** Connect the 24V power adapter to the LED controller. The product includes an 11.5FT (3.5M) ultra-long charging cord, allowing for flexible power placement without space limitations.
5. **Plug In:** Plug the power adapter into a suitable outdoor-rated power outlet.

# 11.5FT Ultra Long Charging Cord

Super sealed design, fearless of rainwater for outdoor use



Image: Outdoor installation demonstrating the 11.5FT ultra-long charging cord. The LED strip lights are installed along the eaves and patio, with the power adapter connected to a distant outdoor outlet.

## 5. OPERATING INSTRUCTIONS

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Your ALITOVE LED Strip Lights can be controlled using either the included remote control or the dedicated smartphone application.

### 5.1. App Control (Magic Lantern)

For full functionality and customization, download the "Magic Lantern" app on your smartphone.

1. **Download the App:** Search for "Magic Lantern" in your device's app store and install it.
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
3. **Connect to Lights:** Open the "Magic Lantern" app. The app should automatically detect and connect to your LED strip lights via Bluetooth. If not, follow the in-app instructions to pair.
4. **Control Features:** Within the app, you can:
  - Select from 16 million static colors.
  - Choose from 213 dynamic lighting scenes.
  - Adjust brightness and speed of dynamic effects.
  - Customize colors and create your own lighting designs.

# Dynamic RGB IC Color Effect

Custom Designed Light Strip Color Assignment

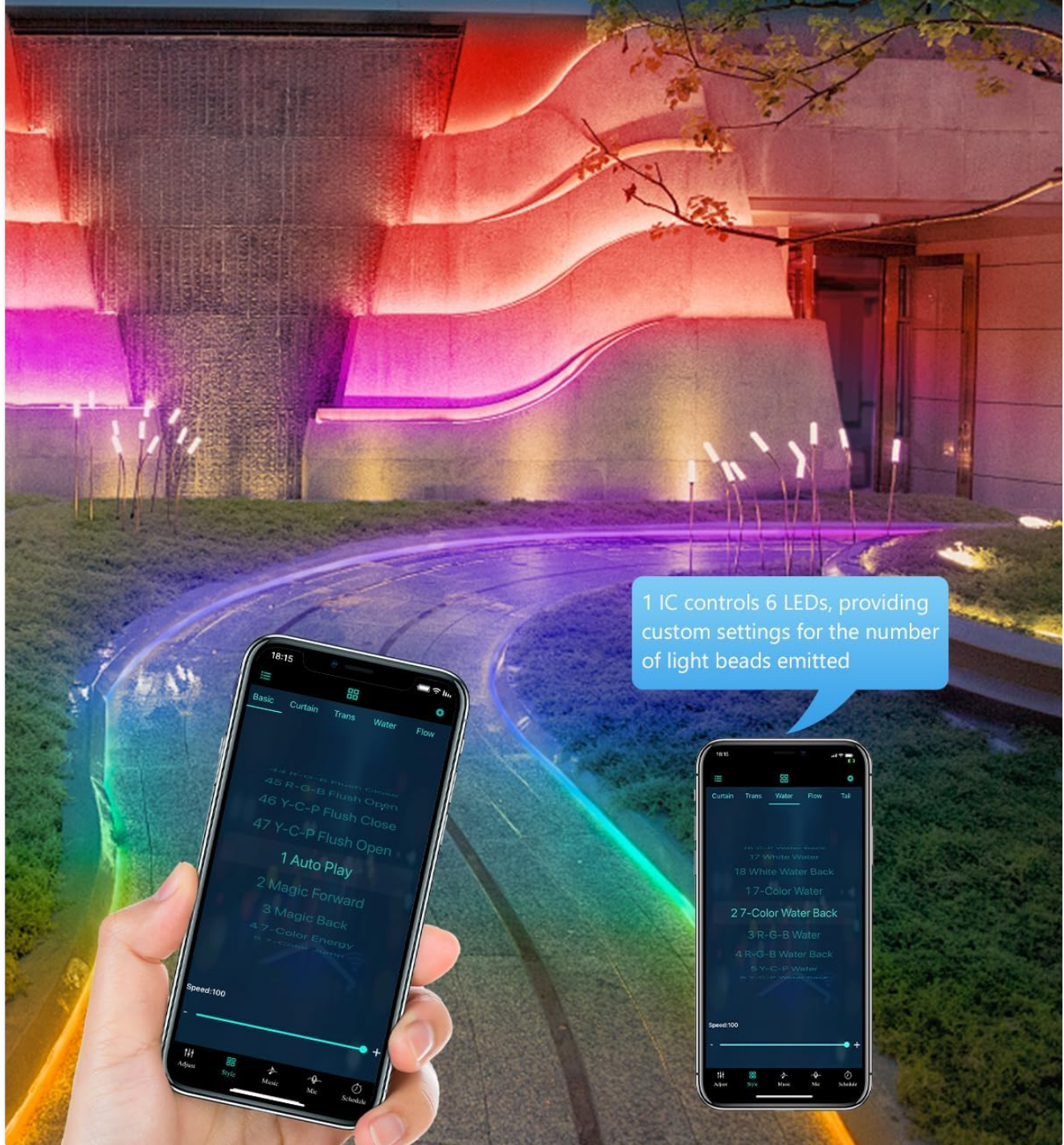


Image: App interface for dynamic RGB IC color effects. A smartphone displays the "Magic Lantern" app, showing various color patterns and controls for customizing the LED strip lights.

## 5.2. Remote Control

The included remote control provides convenient access to basic functions.

- **Power Button:** Turn the lights On/Off.
- **Color Selection:** Directly select various static colors.
- **Mode Selection:** Cycle through pre-programmed dynamic lighting modes.

- **Brightness Adjustment:** Increase or decrease the light intensity.
- **Speed Adjustment:** Adjust the speed of dynamic lighting effects.



Image: Dual control methods. The image illustrates both the Bluetooth app control on a smartphone and the physical remote control being used to manage the LED strip lights installed in different settings.

### 5.3. Music Sync Function

The built-in microphone allows the lights to synchronize with music or ambient sounds.

- **Activation:** Activate the music sync mode via the "Magic Lantern" app or the remote control (if available).

- **Microphone Placement:** For optimal response, ensure the controller's microphone is placed close to the sound source.
- **App Music Playback:** The app also supports music playback, allowing the lights to respond directly to the music played through your device.



Image: Lights synchronized to music. The image shows LED strip lights changing colors in rhythm with music, controlled by a smartphone app.

## 5.4. Timing Function

Set schedules for your lights to turn on or off automatically using the "Magic Lantern" app.

- **Access Timing:** Navigate to the timing or schedule section within the app.
- **Set Schedules:** Configure specific times for the lights to activate or deactivate.

# Timing Function

Set the light strip on or off as desired



Image: Timing function. The image illustrates the LED strip lights turning on at 8:00 PM and off at 10:00 PM, demonstrating the scheduling capability.

## 6. MAINTENANCE

- **Cleaning:** Gently wipe the LED strip with a soft, damp cloth to remove dust or dirt. Do not use harsh chemicals or abrasive cleaners.

- **Connection Check:** Periodically inspect all connections (strip to controller, controller to adapter) to ensure they are secure and free from corrosion or damage.
- **Waterproof Integrity:** While IP67 rated, avoid prolonged exposure to extreme weather conditions if possible. Ensure no cuts or damage compromise the waterproof sealing.
- **Storage:** If storing the lights for an extended period, ensure they are clean, dry, and coiled loosely to prevent damage.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, faulty adapter/controller.	Check power outlet. Ensure all connections are secure. Test with another power source if possible.
Remote control not working.	Battery depleted, remote out of range, IR sensor blocked.	Replace remote battery. Ensure remote is pointed at the controller. Remove any obstructions.
App cannot connect to lights.	Bluetooth off, app not paired, interference.	Ensure Bluetooth is enabled on your phone. Restart the app and try pairing again. Move closer to the controller.
Lights are dim or inconsistent.	Power supply issue, voltage drop (unlikely with 24V system), damaged section.	Ensure the power adapter is functioning correctly. Check for physical damage to the strip.
Music sync not responsive.	Microphone too far from sound, low volume.	Move the controller closer to the sound source. Increase music volume.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	WS2811-30M-FGY30-24V
Length	100FT (30 Meters)
LED Type	RGB IC LED (Addressable)
LED Density	30 LEDs/Meter
Voltage	24V DC
Wattage	81 Watts (Max)
Waterproof Rating	IP67
Control Method	Bluetooth App ("Magic Lantern"), Remote Control
Special Features	Music Sync, Timing Function, Dimmable, Flexible
Average Life	50,000 Hours

Feature	Specification
Indoor/Outdoor Usage	Outdoor

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the ALITOVE official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.