AILBTON Outdoor-300FT-A

AILBTON 300ft Outdoor LED Strip Lights

Model: Outdoor-300FT-A

1. INTRODUCTION

Thank you for purchasing the AILBTON 300ft Outdoor LED Strip Lights. This product is designed to provide vibrant, customizable lighting for various outdoor and indoor applications, including balconies, decks, roofs, gardens, and pools. Featuring IP68 waterproof protection, Bluetooth app control, and music synchronization, these LED strip lights offer both durability and versatile functionality. Please read this manual thoroughly before installation and use to ensure proper operation and safety.

Figure 1.1: AILBTON 300ft Outdoor LED Strip Lights, showcasing the product packaging, coiled LED strips, and remote control/app interface.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, please observe the following precautions:

- Ensure the power adapter is connected to a suitable 24V DC power source.

- Do not expose the power adapter or controller to water. While the LED strips are IP68 waterproof, the power supply and control unit are not.

- Avoid bending the LED strip at sharp angles, which can damage the internal circuitry.

- Do not connect the LED strip directly to AC power without the provided power adapter.

- Keep out of reach of children and pets.

- If cutting the LED strip, ensure to seal the cut end with glue to maintain its waterproof properties. Failure to do so will void the waterproof rating for that section.

- In case of malfunction or damage, disconnect power immediately and contact customer support. Do not attempt to repair the product yourself.

Figure 2.1: Warning against exposing non-waterproof components like power strips to water.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 300ft Outdoor LED Strip Lights (2 x 150ft rolls)

- 24V Low Voltage Power Adapter (ETL Safety Certified)

- IR Remote Control

- Buckles (for installation)

- Screws (for installation)

- User Manual

4. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Plan Your Layout:** Before peeling the adhesive, unroll the LED strip and plan the desired path. Ensure the surface is clean, dry, and smooth for optimal adhesion.

2. **Connect the Strip:** Connect the LED strip to the control box, and then connect the control box to the 24V power adapter. Ensure all connections are secure. The power adapter interface uses a waterproof cable.

3. **Secure the Strip:** The LED strip comes with a self-adhesive backing. Peel off the protective film and firmly press the strip onto the desired surface. For added security, especially in outdoor environments or on rough surfaces, use the provided buckles and screws to reinforce the installation.

4. **Power On:** Plug the power adapter into a suitable electrical outlet. The lights should illuminate.

Figure 4.1: Illustration of the secure, waterproof connection for the LED strip power cable.

5. OPERATING INSTRUCTIONS

Your AILBTON LED Strip Lights can be controlled via a Bluetooth mobile application or the included IR remote control.

5.1. Bluetooth App Control

For advanced features and greater control range, use the "Lotus Lantern" app.

1. **Download the App:** Search for "Lotus Lantern" on Google Play Store (for Android) or iOS App Store (for Apple devices) and install it.

2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.

3. **Connect to Lights:** Open the "Lotus Lantern" app. The app should automatically detect and connect to your LED strip lights. If not, follow the in-app instructions to pair.

4. **Explore Features:**

   - **Color Selection:** Choose from a wide spectrum of RGB colors using the color wheel.
   - **Brightness Adjustment:** Adjust the light intensity.
   - **Music Sync Mode:** The lights will change colors and patterns in sync with music played through your phone's microphone or the app's music player.
   - **MIC Mode:** Lights respond to ambient sounds detected by your phone's microphone.
   - **Timer Function:** Set schedules for the lights to turn on/off automatically.
   - **Pre-set Modes:** Select from various dynamic lighting modes and scenes.
   - **Group Management:** If you have multiple AILBTON LED strips, manage them together or individually.

Figure 5.1: The "Lotus Lantern" app interface for controlling the LED strip lights.
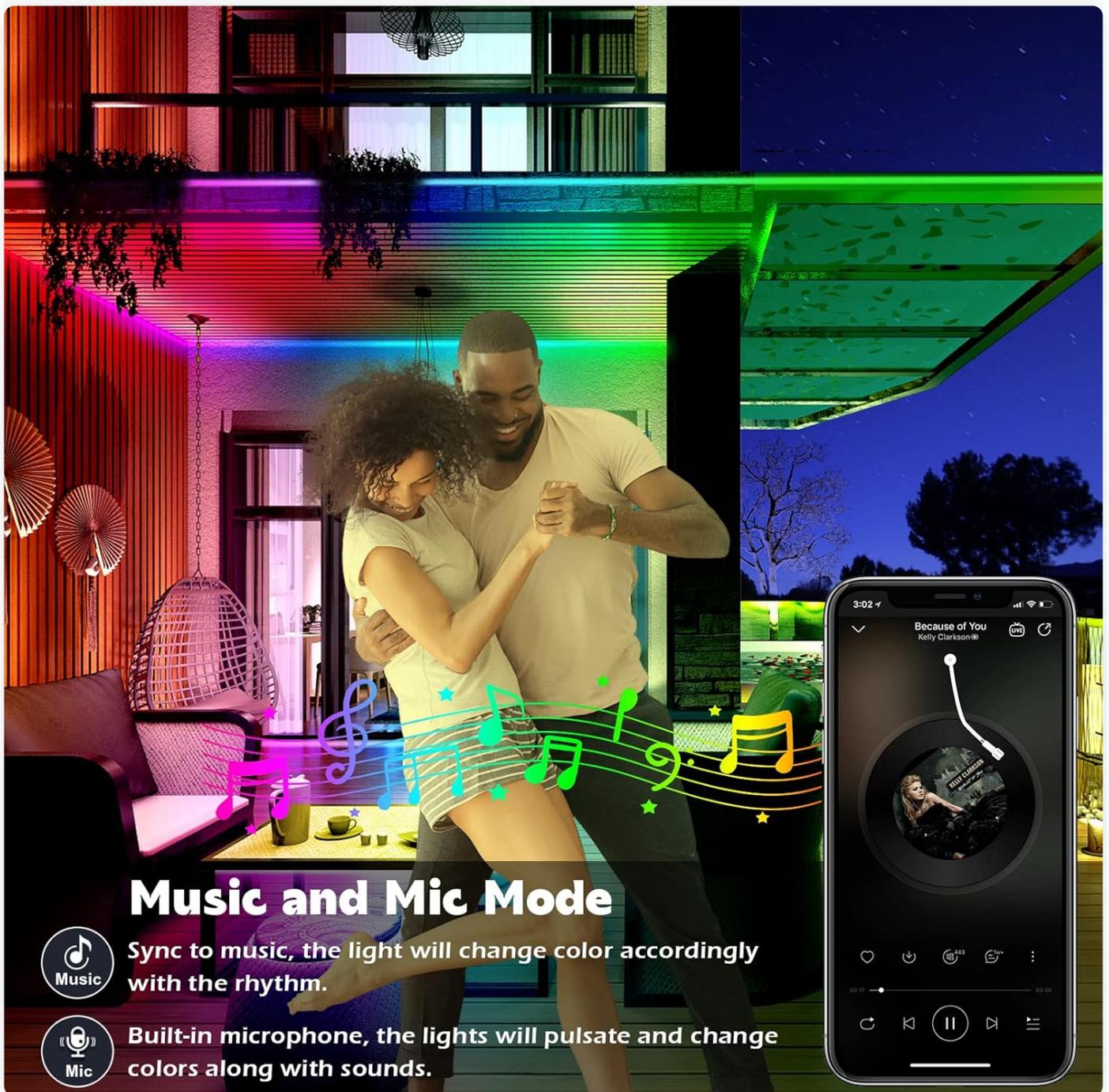
Figure 5.2: Demonstration of Music and Mic Mode, where lights change with sound.

5.2. IR Remote Control

The included IR remote control provides basic functionality within a range of 32.8 ft (10 meters).

- **Power Button:** Turn lights On/Off.

- **Color Buttons:** Select static colors (e.g., Red, Green, Blue, White).

- **Brightness Buttons:** Increase or decrease brightness.

- **Mode Buttons:** Cycle through various dynamic lighting modes (e.g., flash, fade, jump).

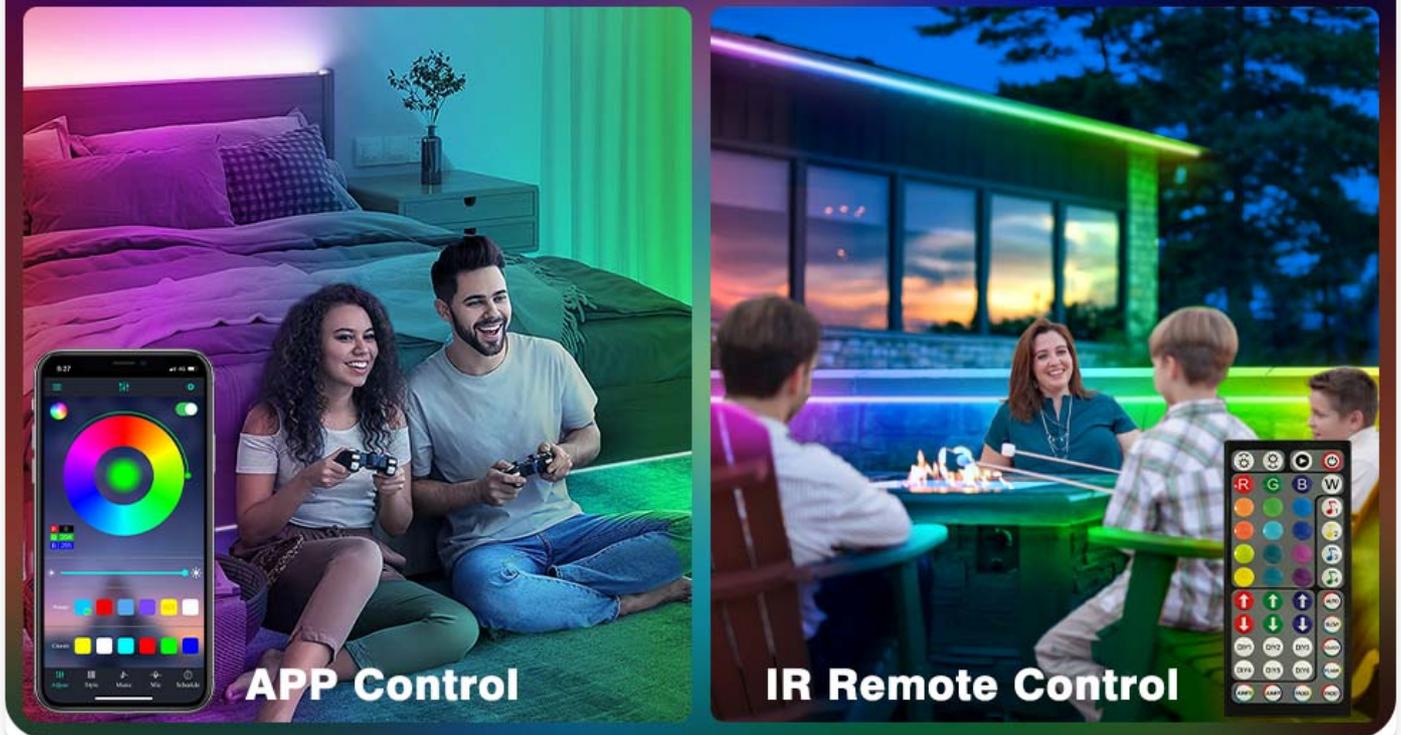- **Speed Buttons:** Adjust the speed of dynamic modes.

Figure 5.3: Visual comparison of control methods: App Control vs. IR Remote Control.

6. Maintenance

Proper maintenance ensures the longevity and performance of your LED strip lights.

- **Cleaning:** Gently wipe the LED strips with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

- **Waterproof Integrity:** The IP68 rating protects the LED strip from water splashes and rainfall. However, avoid submerging the strip for extended periods or exposing the power adapter and controller to water.

- **Cutting the Strip:** If you need to shorten the LED strip, cut only along the designated cut marks (usually indicated by a scissor icon or copper pads). After cutting, it is crucial to apply a waterproof glue or sealant to the cut end to restore its IP68 waterproof property. Failure to do so will compromise the waterproof rating of the cut section.

Figure 6.1: Instructions for safely cutting the LED strip and sealing the cut end.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, faulty adapter.	Check power outlet. Ensure all connections (strip to controller, controller to adapter, adapter to wall) are secure. Test with another outlet if possible.
Remote control not working.	Battery depleted, remote out of range, IR receiver blocked.	Replace remote battery. Ensure you are within 32.8 ft (10m) and pointing the remote directly at the IR receiver on the control box. Remove any obstructions.
App cannot connect to lights.	Bluetooth off, app not updated, interference.	Ensure Bluetooth is enabled on your phone. Restart the app and/or your phone. Make sure the lights are powered on. Try reinstalling the app.
Sections of the strip are not lighting up.	Damaged section, improper cut/seal.	Inspect the strip for physical damage or kinks. If a section was cut, ensure it was properly sealed. Contact customer support if the issue persists.
Adhesive is not holding.	Surface not clean/dry, unsuitable surface, environmental factors.	Ensure the surface is thoroughly cleaned and dried before application. For long-term outdoor use or rough surfaces, use the provided buckles and screws for reinforcement. Consider additional strong adhesive if necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	Outdoor-300FT-A
Length	300ft (2 x 150ft rolls)
Water Resistance	IP68 Waterproof (strip only)
Light Color	RGB (Multicolor)
Voltage	24 Volts (DC)
Power Source	AC/DC Adapter
Control Method	Bluetooth App ("Lotus Lantern"), IR Remote Control
Special Features	Music Sync, MIC Mode, Timer Function, ETL Safety Certified Power Adapter
Indoor/Outdoor Usage	Outdoor and Indoor

Feature	Detail
Item Weight	4.22 pounds
UPC	648564123652

9. WARRANTY AND SUPPORT

AILBTON is committed to providing high-quality products. For any questions, concerns, or technical assistance, please refer to the contact information provided in your product packaging or visit the official AILBTON website. Our customer service team is available to assist you.