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> ALED LIGHT Bluetooth LED Strip Lights 5050 16.4ft/5 Meter User Manual

ALED LIGHT AL106002

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MODEL: AL106002

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ALED LIGHT Bluetooth LED Strip Lights. This product features 5050 RGB LEDs, offering a wide range of colors and control options via a smartphone application or an infrared (IR) remote control. The 5-meter (16.4ft) strip is designed for versatile indoor and outdoor use, featuring a waterproof coating for durability.

2. Package Contents

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

- 1 x LED Strip Lights (5 meters, 150 LEDs)
- 1 x 12V Power Supply
- 1 x Remote Controller
- 1 x IR Controller



Image 2.1: Overview of included components for the ALED LIGHT LED Strip Lights, including the LED strip, power adapter, IR controller, and remote control.

3. Specifications

Feature	Detail
Model Number	AL106002
LED Type	5050 RGB (150 LEDs total, 30 LEDs/meter)
Length	5 meters (16.4 feet)
Voltage	12V
Wattage	30 watts
Illumination Angle	120 degrees

Feature	Detail
White Brightness	1500 lumens
Operating Temperature	-20°C to 60°C
Water Resistance Level	Waterproof (LED strip only)
Control Methods	Smartphone App (Bluetooth), IR Remote Control
UPC	738920677056
Item Weight	0.36 Kilograms (12.7 ounces)

The reason to choose ALED LIGHT LED Strip

RGB 5050 LED
3 Times brighter than
3528 LED Natural light
Longer life Several
combination of colors

3528 LED:
Dark light
Shorter life
Solid color

INSULATED PU HULL
IP65 waterproof and
dustproof Moisture resistant
Heat resistant and rustproof
High light transmission

PURE COPPER LEADER
Strong conductivity,
Strong heat dissipation
Corrosion resistant,
Oxidation resistant




5050


3528





Image 3.1: Technical comparison of 5050 vs 3528 LEDs, illustrating the insulated PU hull and pure copper leader construction of the ALED LIGHT strip.

4. Setup

4.1 Installation Steps

1. **Prepare the Surface:** Ensure the installation surface is clean, dry, and smooth. Dust, oil, or moisture can affect the adhesive's effectiveness.
2. **Measure and Cut (Optional):** If necessary, measure the desired length. The LED strip can be cut at designated marks (usually indicated by a scissor icon or copper pads) to fit your space. **Do not cut elsewhere.**
3. **Apply the Strip:** Carefully peel off the blue protective film from the back of the 3M double-sided adhesive tape. Press the LED strip firmly onto the prepared surface. For added security, especially on textured or vertical surfaces, use the included mounting clips and screws.
4. **Connect Components:** Connect the LED strip to the IR controller. Then, connect the 12V power supply to the IR controller and plug the power supply into a standard electrical outlet. Ensure all connections are secure.

4.2 App Download and Bluetooth Connection

1. **Download the App:** Scan the QR code provided in the manual or on the IR controller to download the compatible smartphone application. Alternatively, search for the app name (e.g., 'Happy Lighting' or similar, as indicated in the product packaging) in your device's app store. You can also visit <http://www.easytrack.net.cn/download/11SHENZHENSHUANGHONGYUAN> for download instructions.
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
3. **Connect to Device:** Open the downloaded application. The app should automatically detect and connect to the LED strip controller via Bluetooth. If not, follow the in-app instructions to manually add the device.

Controlled via 3 Control Ways



Image 4.1: Illustration of the three control methods: a physical controller, smartphone app, and IR remote control, along with various lighting features.

5. Operating Instructions

5.1 Smartphone App Control

Once connected, the smartphone app provides extensive control over your LED strip lights:

- **Color Selection:** Use the color disc or preset color options to choose from millions of colors.
- **Brightness Adjustment:** Adjust the light intensity to your preference.
- **Light Modes:** Select from various dynamic modes such as flashing, fading, or strobing effects.
- **Music Synchronization:** Activate the music mode to synchronize the light effects with music or ambient sounds. The lights will change color and rhythm according to the audio input.
- **Timing Function:** Set schedules for the lights to turn on or off automatically.

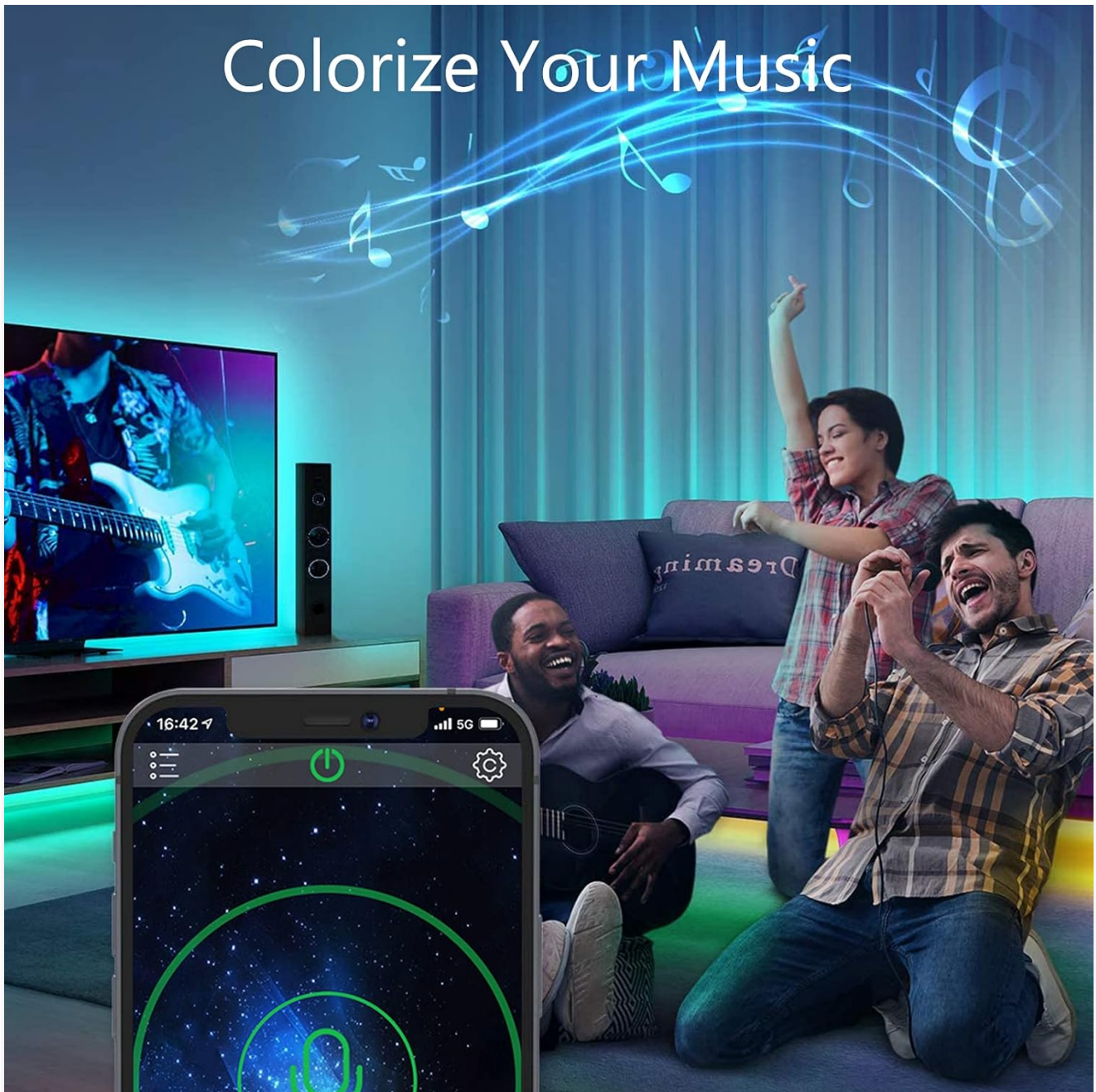


Image 5.1: Depiction of the music synchronization feature, where the LED lights respond to audio input via the smartphone app.

5.2 IR Remote Control

The included IR remote control offers direct access to basic functions:

- **Power On/Off:** Turn the lights on or off.
- **Color Selection:** Select from a range of static colors.
- **Brightness Control:** Adjust the brightness levels.
- **Mode Selection:** Choose from various pre-programmed dynamic modes.

Ensure the remote control is pointed directly at the IR receiver on the controller for optimal response.

Select Your Ideal Scene



Image 5.2: Example of selecting an ideal lighting scene using the ALED LIGHT LED Strip, enhancing the ambiance of a living space.

6. Maintenance

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

- **Cleaning:** Gently wipe the LED strip with a soft, dry cloth to remove dust. Avoid using harsh chemicals or abrasive cleaners.
- **Heat Management:** The LED strip generates heat during operation. To prevent heat concentration and potential damage, ensure the strip is fully unrolled and spread out in a line when powered on. Do not operate the strip while it is still rolled up.
- **Operating Duration:** It is recommended to cool the strip after several hours of continuous use. Avoid powering it for over 8 hours continuously without a break.
- **Waterproof Care:** While the LED strip itself is waterproof (IP65 rated), the power supply and IR controller are not. Ensure these components are protected from water exposure, especially during outdoor installations.

7. Troubleshooting

If you encounter issues with your ALED LIGHT LED Strip Lights, refer to the following common problems and solutions:

- **Lights do not turn on:**
 - Check if the power supply is securely plugged into a working outlet.
 - Ensure all connections between the LED strip, IR controller, and power supply are firm.
 - Verify that the power button on the remote or app is pressed.
- **Remote control not working:**
 - Ensure the remote control is pointed directly at the IR receiver on the controller.
 - Check if the remote control battery needs replacement.
- **App cannot connect to the LED strip:**
 - Ensure Bluetooth is enabled on your smartphone.
 - Restart the app and try connecting again.
 - Unplug the LED strip power supply for 10 seconds, then plug it back in to reset the controller.
 - Ensure no other devices are actively connected to the LED strip via Bluetooth.
- **Colors are incorrect or inconsistent:**
 - This can sometimes occur if the strip is damaged or if the controller is faulty. If troubleshooting steps do not resolve the issue, contact customer support.
- **Adhesive is not holding:**
 - Ensure the surface was properly cleaned and dry before application.
 - For better adhesion, especially on rough or vertical surfaces, use the provided mounting clips and screws.

8. Safety Precautions

- Always ensure the power supply is disconnected before installation or maintenance.
- Do not operate the LED strip while it is rolled up, as this can cause excessive heat buildup and damage.
- The LED strip is waterproof, but the power adapter and controller are not. Protect these components from water.
- Do not exceed the specified voltage (12V) for the LED strip.
- Avoid bending the LED strip sharply or applying excessive force, which can damage the internal circuitry.
- Keep out of reach of children.

9. Warranty and Support

9.1 Warranty Information

This ALED LIGHT product comes with a one-year warranty from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your ALED LIGHT LED Strip Lights, please contact our customer support team. Refer to your purchase documentation or the ALED LIGHT official website for

contact details.