

[Manuals.plus](#) /

> [ALED LIGHT](#) /

> ALED LIGHT LED Strip, 20m, with App Control, RGB 5050, IR Remote, Music Sync, Flexible LED Strip Set for Home Decoration

ALED LIGHT AL102002

ALED LIGHT LED Strip User Manual

Model: AL102002

1. INTRODUCTION

Thank you for choosing the ALED LIGHT LED Strip. This product is designed to enhance your living space with vibrant, customizable lighting. Featuring RGB 5050 LEDs, this 20-meter strip offers a wide spectrum of colors, app control, an infrared remote, and a unique music synchronization mode. Please read this manual carefully to ensure proper installation and operation.



Figure 1.1: ALED LIGHT LED Strip kit showing two rolls of LED strips, a power adapter, a controller, and an IR remote control. This image illustrates all the main components included in the package.

2. SETUP AND INSTALLATION

Follow these steps to properly set up your ALED LIGHT LED Strip:

1. **Prepare the Surface:** Ensure the surface where you intend to install the LED strip is clean, dry, and smooth. Dust, dirt, or moisture can affect the adhesive's effectiveness.
2. **Measure and Cut (Optional):** The LED strip can be cut to your desired length. Look for the designated cutting marks (usually indicated by a copper pad and a scissor icon) along the strip. Cut only at these marks to avoid damaging the circuit.



Figure 2.1: Close-up of the LED strip showing the designated cutting marks, indicated by copper pads and a scissor icon. This allows for customization of the strip length.

- 3. Apply the Strip:** Peel off the protective backing from the adhesive tape on the back of the LED strip. Carefully press the strip onto the prepared surface, ensuring firm and even contact.



Figure 2.2: Illustration of the strong adhesive backing on the LED strip. The image shows the protective film being peeled off, ready for application to a clean, dry surface.

- 4. Connect the Controller:** Connect the LED strip(s) to the controller unit. Ensure the arrows on the connectors align correctly.
- 5. Connect Power:** Plug the power adapter into the controller unit, then plug the power adapter into a standard electrical outlet.

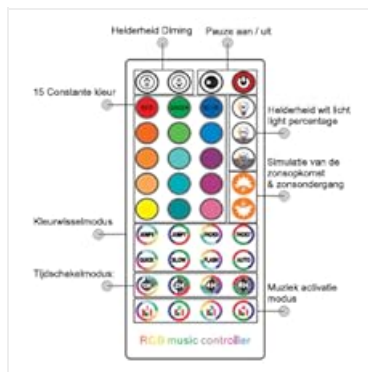


Figure 2.3: Diagram of the LED strip controller, highlighting the IR receiver, strip connectors, power input, and the QR code for app download. It also labels the Mode, Power, Music, and Sound Receiver buttons.

- 6. Download the App:** For full functionality, download the "HappyLighting" app. Scan the QR code on the controller or visit <http://download.appglobalmarket.com/happylightingdownload.html>.



Figure 2.4: Image showing the "HappyLighting" app interface on multiple smartphones, with links to download from Google Play and the App Store. It highlights features like 16 million colors, adjustable brightness, dynamic modes, and music sync.

3. OPERATING INSTRUCTIONS

3.1 App Control

After connecting the LED strip via Bluetooth to your smartphone, use the "HappyLighting" app to access a wide range of features:

- **Color Selection:** Choose from over 16 million colors using the color wheel or preset options.
- **Brightness Adjustment:** Easily dim or brighten the lights from 1% to 100%.
- **Dynamic Modes:** Select from various pre-programmed dynamic lighting effects (e.g., flash, fade, jump).
- **DIY Modes:** Create and save your own custom lighting sequences.



Figure 3.1: Screenshot of the mobile app interface, showing a color wheel for precise color selection and various control options for the LED strip.

3.2 IR Remote Control

The included 40-key infrared remote control provides convenient access to essential functions:

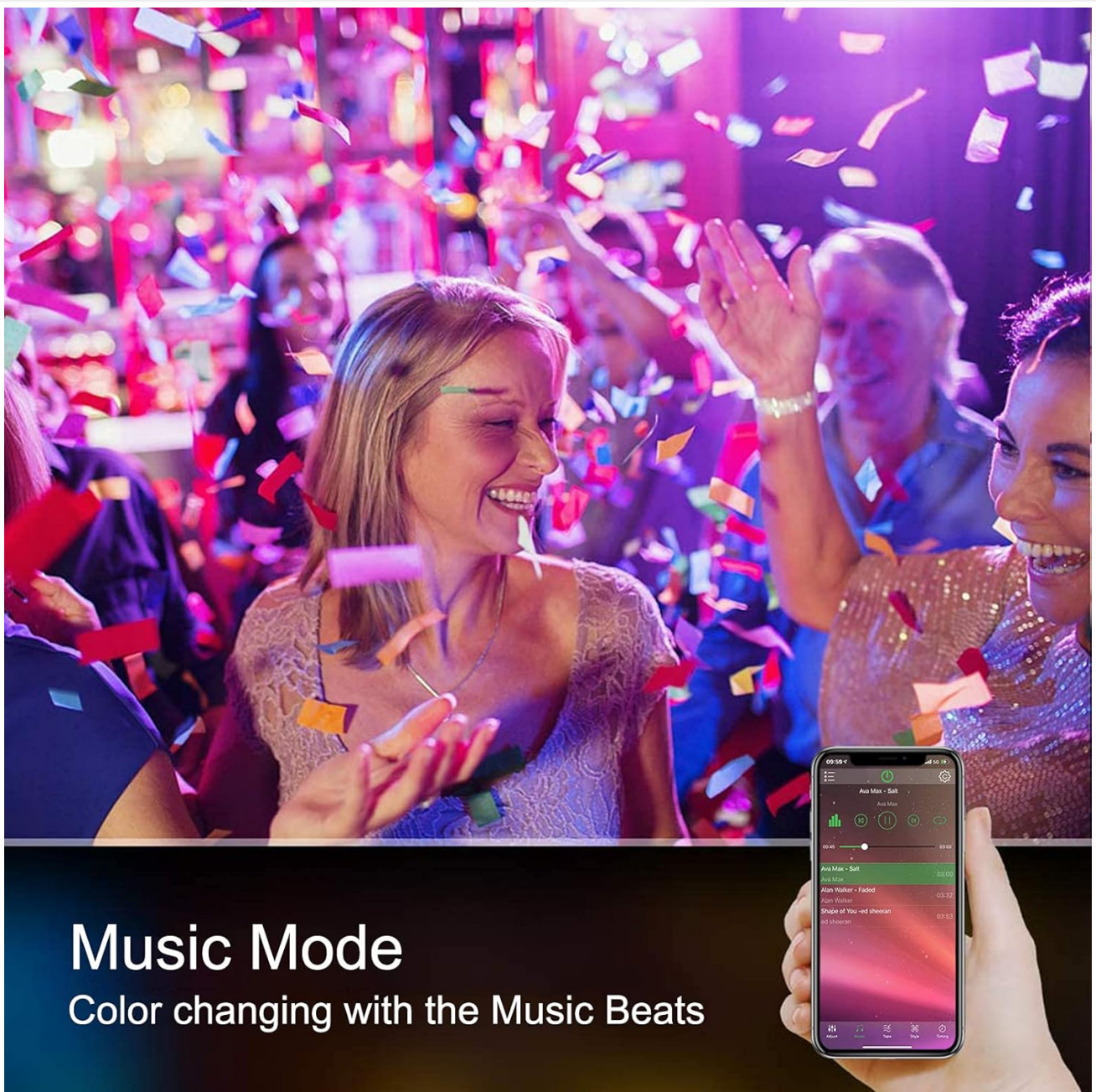
- **On/Off:** Power the lights on or off.
- **Color Presets:** Directly select common colors like red, green, blue, white, and various mixed colors.
- **Brightness Control:** Adjust the brightness of the selected color.
- **Dynamic Modes:** Activate flash, strobe, fade, and smooth transitions.
- **DIY Buttons:** Program and save your favorite custom colors.



Figure 3.2: Diagram of the 40-key IR remote control, detailing buttons for brightness, power, 15 constant colors, color changing modes, timing modes, and music activation modes.

3.3 Smart Music Mode

The built-in high-sensitivity microphone allows the LED strip to synchronize with music or ambient sounds. The lights will change color and rhythm according to the audio input, creating an immersive experience.



Music Mode

Color changing with the Music Beats

Figure 3.3: Image depicting people enjoying a party with the LED strip lights changing colors in sync with music beats. A smartphone displaying the music mode interface is also visible.

3.4 Timer Function

Utilize the timer function to schedule automatic on/off times for your LED strip. This feature is accessible via the app and is ideal for setting routines, such as waking up or going to sleep with specific lighting.

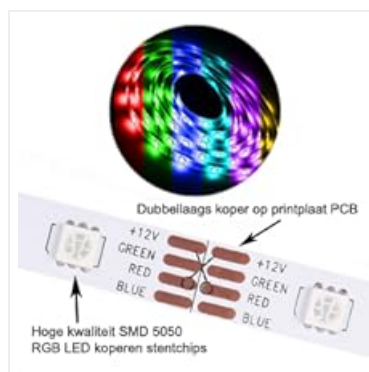


Figure 3.4: Screenshot of the app's timer setting interface, showing options to schedule automatic turn-on and turn-off times for the LED strip, for example, from 7:00 AM to 10:30 PM.

4. MAINTENANCE

To ensure the longevity and optimal performance of your ALED LIGHT LED Strip, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the LED strip with a soft, dry cloth to remove dust. For stubborn dirt, slightly dampen the cloth with water, ensuring no liquid enters the electrical components. Do not use harsh chemicals or abrasive cleaners.
- **Adhesive Care:** Avoid frequently repositioning the strip, as this can weaken the adhesive. If reinstallation is necessary, ensure the new surface is clean and dry.
- **Storage:** If storing the LED strip for an extended period, roll it loosely and keep it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Power Supply:** Always use the original power adapter provided with the product.

5. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, faulty power adapter.	Check if the power adapter is securely plugged into the outlet and the controller. Ensure the LED strip is correctly connected to the controller. Try a different outlet.
Remote control not working.	Remote battery low/dead, IR receiver blocked, remote too far.	Replace the remote battery (CR2025). Ensure there are no obstructions between the remote and the IR receiver on the controller. Point the remote directly at the IR receiver within range.
App cannot connect to the strip.	Bluetooth not enabled, strip not in pairing mode, app issue.	Ensure Bluetooth is enabled on your smartphone. Restart the app and try reconnecting. Unplug the LED strip from power for 10 seconds, then plug it back in to reset.
Colors are incorrect or inconsistent.	Loose connection, damaged LED segment.	Check all connections between the strip and controller. If a segment is permanently discolored, it may be damaged.
Music sync not working.	Microphone blocked, music too quiet, incorrect app setting.	Ensure the controller's microphone is not covered. Increase music volume. Check the app settings to confirm music mode is activated.

6. SPECIFICATIONS

Detailed technical specifications for the ALED LIGHT LED Strip:

Feature	Specification
---------	---------------

Feature	Specification
Brand	ALED LIGHT
Model Number	AL102002
LED Type	RGB 5050 SMD
Strip Length	20 meters
Control Methods	App Control (HappyLighting), IR Remote Control
Color Options	16 Million Colors
Voltage	120 Volt (Input to Power Adapter)
Wattage	14.4 watts
Special Features	Timer Function, Music Sync, Cuttable, Strong Adhesive
Power Source	Corded Electric
Energy Label EU	A+
Material	LED



Figure 6.1: Image illustrating the certified power supply unit, highlighting its safety features such as over-power, over-voltage, over-current, and short-circuit protection. It specifies input 100-240V, 50/60Hz, 2A MAX, and output 12V 2000mA.



Figure 6.2: Close-up view of the LED strip's internal components, showing the double-layer copper PCB (Printed Circuit Board) and high-quality SMD 5050 RGB LED copper stent chips, indicating robust construction.

7. WARRANTY AND SUPPORT

For any questions, concerns, or technical assistance regarding your ALED LIGHT LED Strip, please contact our customer support. While specific warranty details are not provided in this manual, we are committed to ensuring your satisfaction with our product.

Please refer to your purchase documentation or the retailer's website for warranty information. For direct support, you can typically find contact details on the product packaging or the official ALED LIGHT website.

8. GENERAL USAGE EXAMPLES

The ALED LIGHT LED Strip is highly versatile and can be used to illuminate various spaces and create different ambiances:

- **Living Rooms:** Backlight TVs, illuminate shelves, or create mood lighting.
- **Bedrooms:** Add accent lighting behind beds or along ceilings for a cozy atmosphere.
- **Kitchens:** Under-cabinet lighting for task illumination or decorative glow.
- **Entertainment Areas:** Enhance gaming setups, home theaters, or party spaces with dynamic lighting.
- **Commercial Spaces:** Ideal for bars, restaurants, or retail displays to attract attention.



Figure 8.1: Collage of images demonstrating various applications of the LED strip lights in different settings, including a bedroom, a bar, a party, a TV setup, a kitchen, and an exterior house lighting.