Lepro ZB1-15

Lepro ZB1 AI Smart Outdoor String Lights User Manual

Model: ZB1-15

INTRODUCTION

Thank you for choosing the Lepro ZB1 AI Smart Outdoor String Lights. This manual provides essential information for setting up, operating, and maintaining your new smart lighting system. These lights feature RGB+IC (Independent Control) LEDs, AI-generated lighting effects via LightGPM, and seamless integration with the Lepro app, Alexa, and Google Assistant. Enjoy transforming your outdoor space with customizable and intelligent illumination.

PRODUCT FEATURES

- **Smart RGB+IC LEDs:** Each bulb can be individually set to a specific color, allowing for diverse lighting effects. Control is primarily via the Lepro app, which offers continuous updates and exciting DIY designs.

- **2700K Warm White Light:** Dimmable incandescent-like warm white light, controllable via the Lepro app or the in-line controller. Lights retain the last set mode upon power cycle.

- **Expandable System:** The 12V patio lights come with 15 bulbs and can be extended to a maximum of 30 bulbs. The included power adapter supports up to 16.5 watts. The smart in-line controller can connect up to 2 light strings (max 30 bulbs total).

- **Lepro AI LightGPM 2.0:** An AI large language model trained on color psychology and lighting design, generating smarter lighting effects without requiring user expertise.

- **AI Voice Control:** The Lepro app includes an integrated voice assistant. Simply type or speak your desired activity or mood, and the app will suggest suitable lighting effects.

- **Works with Alexa & Google Assistant:** Control lights using voice commands through Alexa or Google Assistant for seamless smart home integration. Note that voice commands for simultaneous brightness and color adjustments may be limited by platform.

- **Bluetooth & Wi-Fi Enabled:** Bluetooth allows access to most app features (DIY, On/Off, AI Voice Prompt, Favorites, Schedule/Rules) within range. Wi-Fi enables full app functionality and connection to Alexa/Google Home for remote control.

- **LightBeats Music Sync:** Dynamic lighting syncs with music rhythms, picking up tunes from either the in-line controller or your phone.

- **Endless Lighting Effects:** LightGPM generates up to 10 optimal lighting effects from billions of combinations, offering professional-grade designs for various occasions.

Image: Lepro ZB1 AI Smart Outdoor String Lights with 15 RGB+IC bulbs, showcasing the product packaging and the mobile application interface for control.

SETUP INSTRUCTIONS

1. **Unpack Components:** Carefully remove the string lights, power adapter, and in-line controller from the packaging.

2. **Connect Components:** Connect the string lights to the in-line controller, ensuring the connectors are aligned according to the arrows and securely fastened. Then, connect the power adapter to the in-line controller.

3. **Placement:** Determine the desired location for your string lights. The total length is 54 ft. The bulbs are shatterproof and the string is waterproof (IP65). The power adapter is IP44 splashproof and should be protected from direct water exposure.

4. **Mounting:** Each bulb socket features a small clip for easy hanging. You can clip them onto eaves, wires, or use nails/hooks through the clips. Ensure the lights are securely mounted to prevent damage from wind or other elements.

5. **Power Connection:** Plug the power adapter into a standard 100-120V AC outlet.

6. **App Download:** Download the official Lepro app from your device's app store. This app is required for full smart functionality. Note: This product does not work with Smart Life/Tuya APP.

7. **Pairing:** Open the Lepro app and follow the on-screen instructions to pair your ZB1 string lights. The in-line controller can be reset to internet pairing status (flashing blue light) by pressing its button. The lights support both Bluetooth and 2.4 GHz Wi-Fi connectivity.
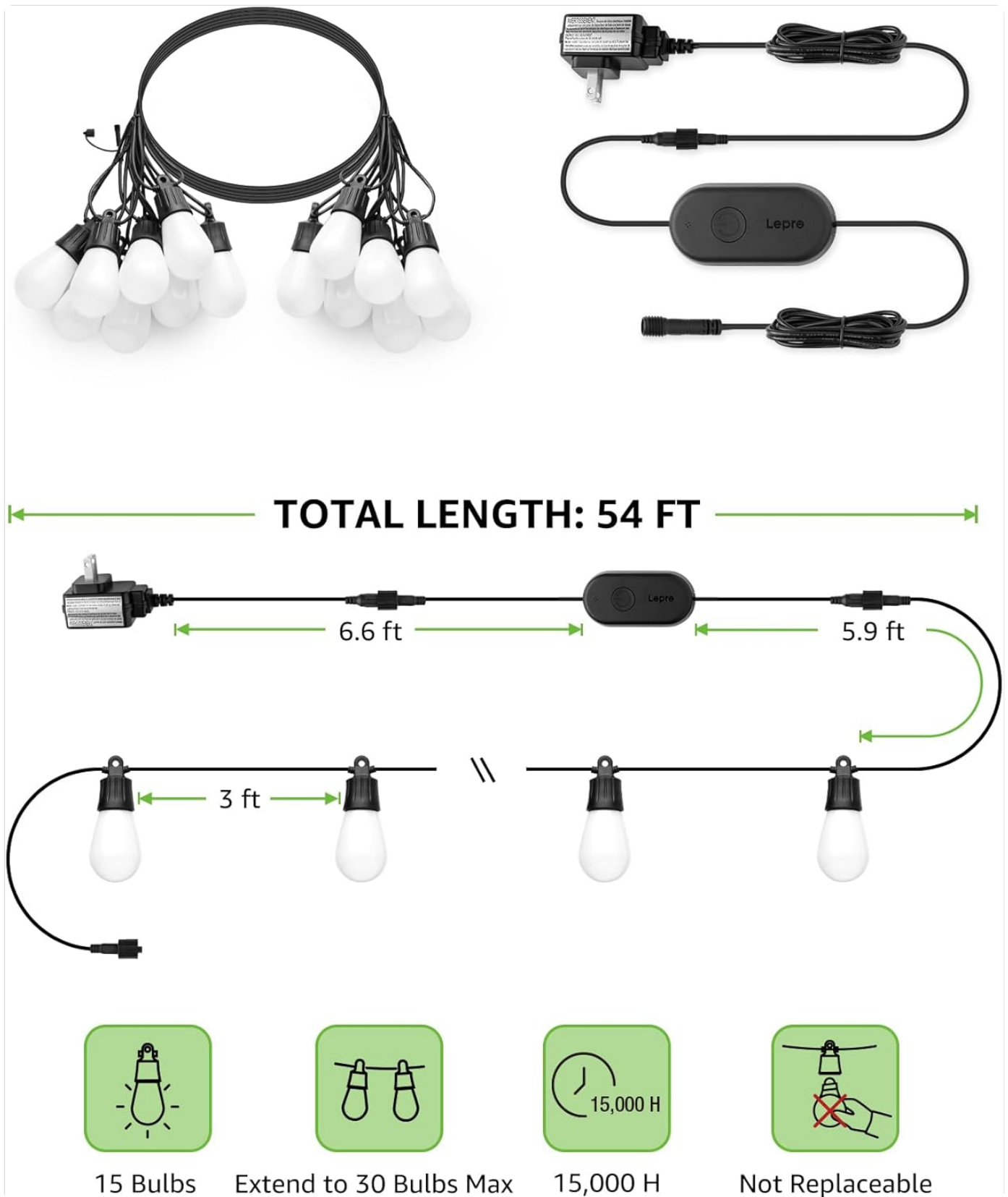

TOTAL LENGTH: 54 FT

6.6 ft

5.9 ft

3 ft

15,000 H

15 Bulbs   Extend to 30 Bulbs Max   15,000 H   Not Replaceable

Image: A detailed diagram illustrating the components of the Lepro ZB1 string lights, including the power adapter, in-line controller, and the 54 ft light string with 15 bulbs. It also highlights the clips on each bulb for easy installation.

Image: Close-up view of the Lepro ZB1 string lights demonstrating their IP65 weatherproof and shatterproof design. Icons indicate snow-proof, waterproof, sun-proof, and windproof capabilities. A crucial note reminds users that the power adapter is not waterproof and requires protection.

OPERATING INSTRUCTIONS

Using the Lepro App

The Lepro app is the primary interface for controlling your ZB1 string lights and accessing all smart features.

- **On/Off Control:** Toggle the lights on or off directly from the app.
- **Color & Brightness Adjustment:** Select from a full spectrum of RGB+IC colors and adjust brightness levels for individual bulbs or the entire string.
- **Warm White Mode:** Activate the dedicated 2700K warm white light mode and adjust its dimness.
- **AI Voice Prompt:** Use the integrated AI voice assistant within the app. Speak or type commands related to moods, activities, or specific lighting requests (e.g., "Let's have a party," "I feel happy"), and LightGPM will generate suitable lighting effects.
- **LightGPM Designs:** Explore and customize AI-generated lighting designs. The app suggests up to 10 best effects from billions of combinations.
- **DIY Mode:** Create and save your own custom lighting scenes and patterns.
- **Music Sync (LightBeats):** Enable music synchronization. The lights can react to audio picked up by your phone's microphone or the built-in microphone in the in-line controller.
- **Scheduling & Rules:** Set schedules for automatic on/off times, or create rules based on specific conditions.
- **Share Device:** Share control of your lights with other family members or users through the app.
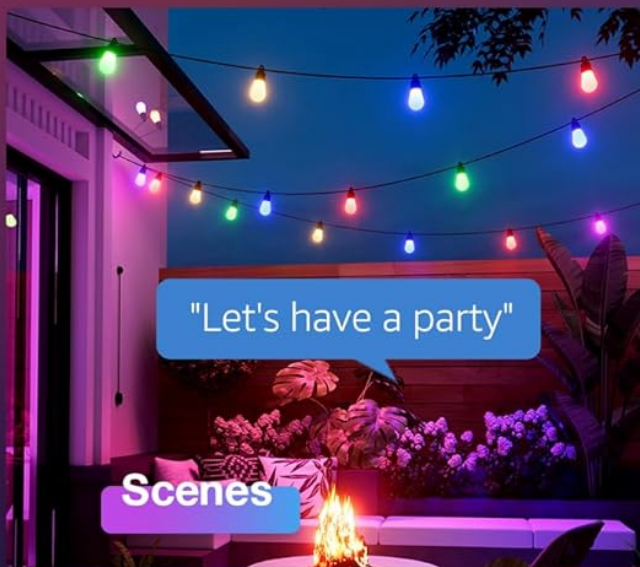
Image: The Lepro app interface demonstrating AI Voice Control, where users can input commands like "Turn on the light," "Let's have a party," or "I feel happy" to generate corresponding lighting effects.

Image: The Lepro app displaying the LightBeats Music Sync feature, allowing users to select flash or wave modes and choose between their phone or the in-line controller as the audio input source.

Using the In-line Controller

The physical in-line controller provides basic functionality:

- **Power On/Off:** Press the button to turn the lights on or off.

- **Reset for Pairing:** Press and hold the button to reset the device to internet pairing status (indicated by a flashing blue light).

- **Last Mode Memory:** The lights will return to the last lighting mode set when turned back on.

Voice Control with Alexa/Google Assistant

Integrate your Lepro ZB1 lights with Amazon Alexa or Google Assistant for hands-free control.

1. Ensure your Lepro ZB1 lights are connected to your home Wi-Fi network via the Lepro app.

2. Open the Alexa or Google Home app.

3. Search for and enable the "Lepro" skill/service.

4. Link your Lepro account when prompted.

5. Discover devices. Your ZB1 lights should now appear and be controllable via voice commands (e.g., "Alexa, turn on the patio lights," "Hey Google, set patio lights to blue").

Image: Lepro ZB1 string lights providing ambient lighting in an outdoor setting, highlighting their compatibility with Amazon Alexa and Google Assistant for smart home integration.

MAINTENANCE

- **Cleaning:** Gently wipe the bulbs and cable with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Weather Protection:** While the bulbs and string are IP65 waterproof and shatterproof, ensure the power adapter (IP44) is protected from direct rain or prolonged moisture. Consider using a waterproof enclosure for the adapter if exposed to elements.
- **Bulb Replacement:** The LED bulbs are not user-replaceable. The average lifespan is 15,000 hours.
- **Storage:** If storing the lights for an extended period, disconnect them from power, clean them, and coil them neatly to prevent tangling. Store in a cool, dry place.

TROUBLESHOOTING

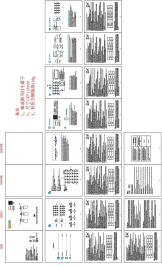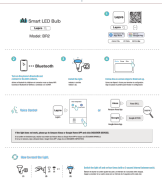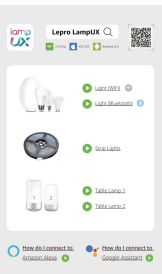| Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, faulty power adapter.	Check if the power adapter is securely plugged into a working outlet. Ensure all connections between the string, controller, and adapter are firm. Verify the in-line controller is not damaged. If the power supply is suspected to be faulty (as noted in some user reviews), contact Lepro support for assistance.
Lights flicker or behave erratically.	Unstable power, loose connection, Wi-Fi interference.	Check power source stability. Ensure all physical connections are secure. Move the lights closer to your Wi-Fi router or reduce other 2.4GHz device interference. Reset the lights via the in-line controller and re-pair with the app.
Cannot connect to Wi-Fi or app.	Incorrect Wi-Fi band, weak signal, incorrect pairing process.	Ensure your Wi-Fi network is 2.4 GHz (5 GHz is not supported). Verify Wi-Fi signal strength at the light's location. Reset the lights by pressing the in-line controller button until it flashes blue, then follow app pairing instructions carefully. Confirm you are using the official Lepro app, not Smart Life/Tuya.
Voice control (Alexa/Google) not working.	Skill not enabled, account not linked, incorrect commands.	Ensure the "Lepro" skill is enabled and your account is linked in the Alexa/Google Home app. Check if the lights are online and controllable via the Lepro app. Use precise voice commands. Refer to Alexa/Google Assistant documentation for supported phrases.

SPECIFICATIONS
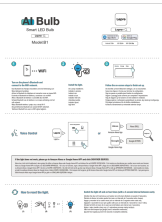
Feature	Detail
Model Number	ZB1-15

Feature	Detail
Color	RGBIC+Warm White
Indoor/Outdoor Usage	Outdoor
Special Features	Waterproof, Shatterproof, Corded, Blinking, Color Changing
Light Source Type	LED
Power Source	AC/DC
Light Color	White, Multicolor
Style	Farmhouse
Material	Polycarbonate
Color Temperature	2700 Kelvin (Warm White)
Controller Type	App Control, Amazon Alexa, Button Control, Voice Control
Connectivity Protocol	Bluetooth, Wi-Fi (2.4 GHz)
Number of Light Sources	15 (expandable to 30 max)
Voltage	12 Volts (DC)
Bulb Shape Size	S14
Wattage	12 watts (Max load 16.5 watts for power adapter)
Item Weight	1.76 pounds
White Brightness	700 Lumens
Water Resistance Level	IP65 (String), IP44 (Power Adapter)
Average Life	15000 Hours
Included Components	1 String lights with 15 bulbs, App Control, Power supply, In-line controller (No remote controller)

WARRANTY AND SUPPORT

Lepro products are designed for quality and reliability. For any questions, technical assistance, or warranty claims, please contact Lepro customer support through the official Lepro website or the contact information provided with your product packaging. Please retain your proof of purchase for warranty service.
For the latest information and FAQs, visit the Lepro Store on Amazon.

Related Documents - ZB1-15

	[Lepro ZB1 AI LED Outdoor String Lights User Manual and Specifications](#) Comprehensive user manual and technical specifications for the Lepro ZB1 AI LED outdoor string lights, detailing features, installation, and compliance information.
	[Lepro BR2 Smart LED Bulb Setup and Voice Control Guide](#) Comprehensive guide to setting up your Lepro BR2 Smart LED Bulb. Learn how to connect via Bluetooth and WiFi, integrate with Amazon Alexa and Google Assistant, and troubleshoot common issues. Includes technical specifications and regulatory compliance information.
	[Lepro R2 Smart LED Downlight Installation and User Guide](#) Comprehensive guide for installing and using the Lepro R2 Smart LED Downlight, covering app connection, voice control setup, mounting, and safety information.
	[Lepro LampUX: Smart Lighting App User Guide](#) A comprehensive guide to setting up and using the Lepro LampUX app for controlling smart lighting devices, including Wi-Fi and Bluetooth bulbs, strip lights, and table lamps, with integration for Amazon Alexa and Google Assistant.
	[Lepro AI LED Permanent Outdoor Lights User Manual and Safety Guide](#) Comprehensive guide for Lepro AI LED permanent outdoor lights, covering installation, app connection, voice control, safety precautions, and technical specifications for models E1-30, E1-60, and E1-90.
	[Lepro AI Smart Bulb B1: Quick Start Guide and Setup](#) Learn how to set up and connect your Lepro AI Smart LED Bulb (Model B1) to your WiFi network, integrate it with voice assistants like Alexa and Google Assistant, and troubleshoot common issues. Includes reset instructions.