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ECOWHO RH-120-2000Z

ECOWHO Low Voltage Landscape Lighting User Manual

MODEL: RH-120-2000Z

Brand: ECOWHO

Product Overview

The ECOWHO Low Voltage Landscape Lighting system provides bright, warm white illumination for your outdoor spaces. Designed for durability and ease of installation, these 12V LED spotlights are connectable and waterproof, making them ideal for various landscape applications.

- **High Brightness LED Spotlights & Connectable:** 18W COB LED landscape spotlight set with total brightness up to 1800lm, 2700K warm white. Extendable up to 10 lights.
- **69ft Ultra Long Outdoor Extension Cable:** 19.7 ft from the adapter to 1st spotlight, 9.8ft connectable cord between 2 lamps, 69ft in total.
- **12 V Landscape LED Lighting with Plug:** UL-certified adapter, 12V safe working voltage.
- **IP65 Waterproof Outdoor Landscape Lighting:** Thick aluminum body and glass lens cover design for IP65 waterproof rating. (Note: The plug of the wired landscape lighting kits is not waterproof).
- **Tool-free LED Garden Lighting & 2-year Warranty:** 270° adjustable angle, easy installation with hand-adjusting nut.



Figure 1: ECOWHO Low Voltage Landscape Lighting illuminating a house.

Package Contents

Verify that all components are present in your package:

- 6 × LED Plug-in Spotlights
- 6 × Ground Spikes
- 6 × Screws
- 1 × ETL Listed Adapter
- Instruction Manual



Figure 2: Contents of the ECOWHO Landscape Lighting package.

Setup and Installation

The ECOWHO landscape lights offer flexible installation options: ground insertion or wall mounting.

Ground Insertion:

1. Screw the hand-adjusting nut onto the spotlight bracket.
2. Attach the ground spike to the bracket.
3. Insert the assembled spotlight into the ground in your desired location.
4. Connect the spotlights in series using the provided cables. Ensure each connection is tightened for IP65 waterproofing.
5. Plug the last spotlight's cable into the UL-certified adapter.
6. Plug the adapter into a suitable outdoor power outlet. Note: The adapter plug is NOT waterproof and must be placed in a waterproof case for outdoor use.
7. Adjust the spotlight head to the proper angle (up to 270°) to illuminate your desired area.



Figure 3: Ground insertion installation steps.

Wall Mounting:

1. Drill holes on the wall at your desired mounting points.
2. Screw the spotlights onto the wall using the provided screws.

3. Connect the spotlights in series using the provided cables. Ensure each connection is tightened for IP65 waterproofing.
4. Plug the last spotlight's cable into the UL-certified adapter.
5. Plug the adapter into a suitable outdoor power outlet. Note: The adapter plug is NOT waterproof and must be placed in a waterproof case for outdoor use.
6. Adjust the spotlight head to the proper angle (up to 270°) to illuminate your desired area.



Figure 4: Wall mounting installation steps.

Wiring and Extension:

The system is designed for easy expansion. The 69ft cable allows for wide coverage, and additional lights or extension cables can be purchased to extend the system further. Each light is connected in series, and the connections are designed to be waterproof when properly tightened.



Figure 5: Wiring diagram and extension capabilities.

Video 1: Official ECOWHO video demonstrating the features and installation of the 12V Low Voltage Landscape Lights.

Operating Instructions

Once installed, the ECOWHO landscape lights operate automatically when connected to power. They provide a warm white light (2700K) suitable for various outdoor settings.

- **Adjustable Angle:** Each spotlight features a 270° adjustable head, allowing you to direct the light precisely where needed.

- **Automatic Operation:** The lights will turn on when power is supplied to the adapter. For automated on/off cycles, consider using a smart plug or timer (not included).



Figure 6: Multi-scene application of ECOWHO landscape lights.

Video 2: Official ECOWHO video showcasing the 12V Low Voltage Landscape Lights in various outdoor settings.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your ECOWHO landscape lights.

- **Cleaning:** Periodically wipe down the light fixtures with a soft, damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive materials.
- **Connection Check:** Annually inspect all cable connections to ensure they remain tight and secure, maintaining the IP65 waterproof rating.
- **Adapter Protection:** Always ensure the adapter plug is housed in a waterproof enclosure when used outdoors to prevent water damage.

Troubleshooting

If you encounter issues with your ECOWHO landscape lights, refer to the following common troubleshooting steps:

- **Lights Not Turning On:**

- Check the power outlet to ensure it is functioning correctly.
- Verify that the adapter is securely plugged into the outlet.
- Inspect all cable connections between the lights and to the adapter for looseness or damage.

- **Flickering Lights:**

- Loose connections are a common cause of flickering. Re-tighten all waterproof connectors.
- Ensure the adapter is not exposed to moisture, as this can cause intermittent power.

- **Individual Light Failure:**

- While durable, individual lights can be replaced if damaged. Contact customer support for replacement options.

- **Water Inside Light Fixture:**

- Although rated IP65, ensure all seals and connections are properly tightened during installation. If water ingress occurs, disconnect power immediately and allow the light to dry. If the issue persists, contact customer support.

Specifications

Feature	Detail
Brand	ECOWHO
Model Number	RH-120-2000Z
Color	Warm White (2700 Kelvin)
Material	Aluminum
Power Source	DC (12 Volts)
Wattage (per light)	3 watts
Brightness (per light)	300 Lumen
Water Resistance Level	IP65 Waterproof (lights only, plug not waterproof)
Average Life	30000 Hours
Cable Length (total)	69ft
Adjustable Angle	270°
Installation Type	Ground Inserted & Wall Mount

Warranty and Support

ECOWHO is committed to providing quality lighting solutions. We offer a 30-day money-back guarantee and a 24-month replacement warranty for this product.

For any inquiries, technical assistance, or warranty claims, please contact ECOWHO US customer support. Our goal is to fill every family with a warm atmosphere through our indoor and outdoor lighting products.

Protection Plans:

Additional protection plans are available for purchase:

- 3-Year Protection Plan: \$8.99
- 4-Year Protection Plan: \$11.99
- Complete Protect: One plan covers all eligible past and future purchases for \$16.99/month.