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Jebao PL1LED4S

Jebao PL1LED4S Underwater Fountain Pond Submersible LED Light Set (Set of 4) - User Manual

Model: PL1LED4S

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1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your Jebao PL1LED4S Underwater Fountain Pond Submersible LED Light Set. This set includes four compact, low-voltage LED lights designed for illuminating ponds, fountains, and other outdoor water features. Each light features a single LED source for wide, evenly dispersed beams and can be rotated 120 degrees horizontally for optimal light direction. The system includes an outdoor weather-proof 12V AC UL approval transformer and a photocell sensor for automatic operation.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power source matches the requirements specified on the transformer. Always disconnect power before performing any installation, maintenance, or troubleshooting. The transformer is outdoor weather-proof, but avoid submerging it.
- **Water Immersion:** The LED lights are designed for submersible use. Ensure all connections are secure and watertight before placing lights in water.
- **Cable Management:** Route power cords to prevent tripping hazards and protect them from damage. Do not run cords under heavy objects or through sharp edges.
- **Temperature:** Do not operate the lights in temperatures outside the recommended range.
- **Children and Pets:** Keep packaging materials and small components away from children and pets.
- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified electrician.

3. PACKAGE CONTENTS

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

- 4 x Jebao Submersible LED Lights
- 1 x Outdoor Weather-Proof 12V AC UL Approval Transformer
- 1 x Photocell Sensor
- 4 x Red Color Lenses
- 4 x Green Color Lenses
- 4 x Yellow Color Lenses
- 4 x Blue Color Lenses
- Instruction Manual (this document)



Image 3.1: Overview of the Jebao PL1LED4S LED light kit, showing four submersible lights, the transformer, photocell sensor, and various colored lenses.

4. SETUP & INSTALLATION

Follow these steps to properly install your Jebao LED light set:

4.1. Pre-Installation Check and O-Ring Preparation

Before submerging the lights, it is highly recommended to prepare the O-rings to ensure a watertight seal and prevent leaks. This step is crucial for the longevity of your lights.

1. **Access O-Ring:** Carefully unscrew or unlock the cap from the lens of each light fixture. You will find an O-ring inside.
2. **Apply Silicone Grease:** Remove the O-ring. Apply a small amount of high-grade silicone grease (e.g., dielectric grease or plumbing grease for O-rings) to your fingers and work it all the way around the O-ring, ensuring it is fully covered. Avoid using excessive amounts and try not to get grease on the lens itself.
3. **Reassemble:** Place the greased O-ring back into its slot. Carefully place the desired colored lens (or no lens) and ensure it is properly seated. Screw the cap back on until it locks securely. The grease allows the O-ring to slide smoothly and create a proper seal as the cap is tightened, preventing binding and potential leaks.



Image 4.1: A close-up view of one Jebao PL1LED4S LED light, showing the lens and housing. This is where the O-ring is located for sealing.

4.2. Wiring Configuration

The four light fixtures are pre-wired in a specific configuration:

- A 16-foot lead wire connects from the transformer to the first light fixture.
- Subsequent fixtures are connected by 3-foot wires between each light.



Image 4.2: The four Jebao PL1LED4S LED lights connected by their wiring, illustrating the series configuration.

4.3. Placement and Installation

1. **Position Lights:** Place the lights in your pond, fountain, or water feature. The weighted base allows for stable placement in shallow water or on surfaces. The lights can be rotated 120 degrees horizontally to direct the beam as desired.
2. **Attach Color Lenses (Optional):** If desired, attach one of the provided red, green, yellow, or blue colored lenses to each light for an added dramatic effect. Ensure the lens is securely fastened.
3. **Photocell Sensor Placement:** Position the photocell sensor in an area that receives ambient light, but is not directly illuminated by the LED lights themselves, to ensure accurate dusk-to-dawn operation.
4. **Connect Transformer:** Connect the light system to the outdoor weather-proof 12V AC UL approval transformer.
5. **Power On:** Plug the transformer into a suitable outdoor electrical outlet. Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for safety.

5. OPERATION

The Jebao PL1LED4S LED Light Set operates automatically using its integrated photocell sensor.

- **Automatic On/Off:** The photocell sensor detects ambient light levels. When it gets dark (dusk), the lights will

automatically turn on. When it becomes light again (dawn), the lights will automatically turn off.

- **Manual Override:** There is no manual override switch for the photocell. To turn the lights off during daylight hours, you must unplug the transformer from the power outlet.
- **Adjusting Light Direction:** The light fixtures can be manually rotated 120 degrees horizontally to adjust the direction of the light beam. Ensure the power is disconnected before making adjustments to lights submerged in water.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your LED lights.

- **Cleaning Lenses:** Periodically clean the light lenses to remove algae, mineral deposits, or debris that may accumulate and reduce light output. Disconnect power before cleaning. Use a soft cloth and mild, non-abrasive cleaner.
- **Cable Inspection:** Regularly inspect power cords and connections for any signs of wear, damage, or fraying. Replace damaged components immediately.
- **O-Ring Inspection:** Annually inspect the O-rings for cracks or degradation. Re-grease or replace them as necessary to maintain a watertight seal.
- **Winterization:** In regions with freezing temperatures, it is recommended to remove the submersible lights from the water during winter to prevent damage from ice expansion. Store them in a dry, protected area.

7. TROUBLESHOOTING

If you encounter issues with your Jebao LED light set, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on at dusk.	No power to transformer. Photocell sensor is obstructed or receiving too much light. Faulty wiring or connection.	Check power outlet and GFCI. Relocate photocell sensor to a darker area or clear obstruction. Inspect all wiring for secure connections and damage.
Lights remain on during the day.	Photocell sensor is obstructed or not receiving enough light. Photocell sensor is faulty.	Clear any obstruction from the photocell sensor. Ensure it is exposed to daylight. Contact customer support if the photocell is suspected to be faulty.
One or more lights are not working.	Loose connection. Damaged light fixture. Water ingress into the light.	Check connections to the non-working light. Inspect the light for visible damage. Disconnect power, remove light, and check for water inside. Ensure O-ring is properly sealed.
Lights are dim.	Dirty lenses. Low voltage (unlikely with included transformer).	Clean the light lenses thoroughly. Ensure the transformer is receiving adequate power.

8. SPECIFICATIONS

Technical details for the Jebao PL1LED4S Underwater Fountain Pond Submersible LED Light Set:

Feature	Detail
Model Number	PL1LED4S
Brand	Jebao
Light Source	LED (12 super bright cool white LEDs per light)
Number of Lights	4
Power Consumption	1.6 Watts per light (Total 6.4 Watts for 4 lights)
Voltage	12V AC (Low Voltage)
Input Voltage	110V 60Hz (for transformer)
Light Color	Cool White (with R, G, Y, B color lenses included)
Light Dimensions	2.25" Diameter x 3" Height
Cord Length	16 ft lead wire to first fixture, 3 ft between subsequent fixtures
Water Resistance	Waterproof
Switch Type	Photocell (Automatic Dusk-to-Dawn)
Material	Plastic
Mounting Type	Floor Mount (Weighted base)
Included Components	4 LED light fixtures, 4 sets of color lenses, AC adapter, photocell sensor
Warranty	180-day limited warranty



Image 8.1: Dimensional view of a single Jebao PL1LED4S LED light, indicating its 2-inch length, 2-inch width, and 3-inch height.

9. WARRANTY & SUPPORT

Warranty Information: This Jebao PL1LED4S LED Light Set is covered by a 180-day limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accident, modification, improper installation, or neglect.

Customer Support: For technical assistance, warranty claims, or replacement parts, please contact Jebao customer support through the retailer where the product was purchased or visit the official Jebao website for contact information. Please have your model number (PL1LED4S) and proof of purchase ready when contacting support.

