

Pelican 4100N

Pelican 4100N Nemo Dive Series Light User Manual

Model: 4100N

1. INTRODUCTION

Thank you for choosing the Pelican 4100N Nemo Dive Series Light. This serious dive light is engineered for reliability and performance in demanding underwater environments. It is submersible to 500 feet and constructed with an ABS body, polycarbonate lens, and thermoplastic shroud, ensuring corrosion-proof and chemical-resistant operation. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your dive light.



Image 1.1: Pelican 4100N Nemo Dive Series Light. This image shows the overall design of the dive light, featuring its robust construction and ergonomic pistol grip handle.

2. SAFETY INFORMATION

Please read all safety instructions before using the Pelican 4100N Nemo Dive Series Light. Failure to follow these instructions may result in injury or damage to the product.

- **Water Immersion:** Ensure all seals and components are properly secured and free from debris before submerging the light. This light is designed for underwater use up to 500 feet (152 meters).

- **Battery Safety:** Use only 8 D alkaline cells. Do not mix old and new batteries, or different types of batteries. Insert batteries with correct polarity. Remove batteries if the light will not be used for an extended period to prevent leakage.
- **Light Beam:** Do not stare directly into the light beam, as it can cause temporary vision impairment.
- **Heat:** The light may become warm during prolonged use. Handle with care.
- **Maintenance:** Perform regular maintenance as described in this manual to ensure optimal performance and safety.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Pelican 4100N Nemo Dive Series Light
- Modified Spot Reflector (stippled)
- Laser Spot Reflector (smooth)
- Backup Lamp (stored behind reflector)

Note: 8 D alkaline cells are required for operation and are not included.

4. SETUP

4.1 Battery Installation

1. Unscrew the rear cap of the light by turning it counter-clockwise.
2. Carefully remove the internal battery module. This module is designed to absorb shock and protect the cells and lamp.
3. Insert 8 D alkaline cells into the battery module, ensuring correct polarity (+/-) as indicated inside the module.
4. Reinsert the battery module into the light body.
5. Screw the rear cap back on clockwise until it is securely tightened. Ensure the O-ring seal is clean and properly seated to maintain waterproof integrity.

4.2 Reflector Installation/Change

The Pelican 4100N comes with two interchangeable reflectors and a stored backup lamp.

1. Unscrew the front bezel of the light by turning it counter-clockwise.
2. Carefully remove the currently installed reflector. The backup lamp is typically stored behind the reflector.
3. Select your desired reflector:
 - **Modified Spot Reflector:** Stippled surface for a wide, diffused beam.
 - **Laser Spot Reflector:** Smooth surface for a tight, collimated beam.
4. Place the chosen reflector into the light body. Ensure the backup lamp is properly seated if you wish to keep it stored.
5. Screw the front bezel back on clockwise until it is securely tightened. Ensure the O-ring seal is clean and properly seated.

5. OPERATING INSTRUCTIONS

5.1 Turning the Light On/Off

The Pelican 4100N features a dual-direction switch, designed for easy operation even with thick gloves.

- To turn the light **ON**, push the switch forward (away from the handle).
- To turn the light **OFF**, pull the switch backward (towards the handle).

5.2 Locking Slide Feature

The light includes a locking slide feature to prevent accidental activation, which is crucial for preserving battery life and avoiding unintended light exposure.

- To **LOCK** the switch, slide the small locking mechanism (usually a small lever or button near the main switch) into the locked position.
- To **UNLOCK** the switch, slide the locking mechanism back to the unlocked position.

5.3 Pistol Grip/Lantern Handle

The versatile pistol grip/lantern handle can be quickly converted to multiple positions for flexibility in use and carrying.

- Adjust the handle by pressing the release button or rotating the pivot points to achieve the desired position (e.g., pistol grip for handheld use, lantern style for area illumination).

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your Pelican 4100N Dive Light.

- **After Each Dive:** Rinse the light thoroughly with fresh water to remove salt, sand, and other debris. Operate the switch several times while rinsing to flush out any trapped particles.
- **O-Ring Care:** Periodically inspect the O-rings on the rear cap and front bezel for cracks, nicks, or dirt. Clean them with a soft cloth and apply a thin layer of silicone grease to maintain a watertight seal. Replace damaged O-rings immediately.
- **Battery Compartment:** Keep the battery compartment clean and dry. If batteries leak, clean the compartment thoroughly and dispose of the old batteries properly.
- **Storage:** Store the light in a cool, dry place away from direct sunlight. Remove batteries if storing for an extended period to prevent corrosion from leakage.
- **Lens Care:** Clean the polycarbonate lens with a soft, damp cloth. Avoid abrasive cleaners or materials that could scratch the lens.

7. TROUBLESHOOTING

If you encounter issues with your Pelican 4100N Dive Light, refer to the following common problems and solutions:

- **Light Does Not Turn On:**
 - Check battery polarity.
 - Ensure batteries are fresh and properly installed.

- Verify the switch is not in the locked position.
- Check for corrosion on battery contacts; clean if necessary.

- **Light is Dim or Flickering:**

- Replace batteries with a fresh set.
- Ensure battery contacts are clean and making good connection.

- **Water Inside Light:**

- Immediately remove batteries.
- Disassemble the light and allow all components to dry thoroughly.
- Inspect O-rings for damage or improper seating. Clean and re-grease or replace O-rings as needed.
- Ensure front bezel and rear cap are securely tightened before next use.

If problems persist, contact Pelican customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	4100N (4100-007-110X)
Light Source	Xenon
Brightness	251 Lumens
Battery Type	8 x D Alkaline Cells (not included)
Battery Burn Time	12 hours
Submersible Depth	500 feet (152 meters)
Material	Acrylonitrile Butadiene Styrene (ABS), Polycarbonate (PC)
Features	Dual direction switch, locking slide, pistol grip/lantern handle, shock absorbing internal battery module, backup lamp
Dimensions (Package)	24.89 x 14.48 x 13.21 cm
Weight (Package)	997.9 g

9. WARRANTY AND SUPPORT

Pelican products are known for their durability and reliability, backed by a comprehensive warranty.

9.1 Lifetime Guarantee

Pelican products come with an unconditional lifetime guarantee against defects in workmanship. If you

experience any dissatisfaction due to manufacturing defects, your Pelican product will be replaced or you will be refunded through the original dealer.

Important Limitations:

- The lifetime guarantee does **not** cover the lamp (bulb) or batteries, as these are consumable items.
- The guarantee does not cover damage resulting from misuse, abuse, or external factors such as shark bites, bear attacks, or damage caused by children under 5 years old.

9.2 Customer Support

For warranty claims, technical assistance, or further inquiries, please contact your original Pelican dealer or visit the official Pelican website for customer support information.