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Sofirn SD05B Dive Light Instruction Manual

Model: SD05B

INTRODUCTION

Thank you for choosing the Sofirn SD05B Dive Light. This high-performance flashlight is designed for underwater activities, offering 3000 lumens of bright illumination and a waterproof rating of IPX8, allowing it to operate up to 100 meters deep. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your dive light.

SOFIRN SD05B LED Diving Flashlight



The Sofirn SD05B Dive Light, a compact and powerful illumination tool for underwater use.

SAFETY INFORMATION

- Always inspect the flashlight, especially the O-rings and threads, before each dive to ensure proper sealing and prevent water ingress.
- Do not look directly into the light beam when the flashlight is on, as it can cause temporary vision impairment.
- Keep the flashlight out of reach of children.
- Use only the recommended battery type and charger. Improper use can lead to battery damage or safety hazards.
- Avoid disassembling the sealed head of the flashlight, as this may damage the light and void the warranty.
- After each use in saltwater, rinse the flashlight thoroughly with fresh water and wipe it dry.

PACKAGE CONTENTS

Please check the package for the following items:

- 1 x Sofirn SD05B Dive Light
- 1 x Rechargeable Battery

- 1 x Battery Charger
- 1 x Lanyard
- 1 x User Manual
- Spare O-rings (if included)

SETUP

1. Battery Installation

1. Unscrew the tail cap of the flashlight counter-clockwise.
2. Insert the provided rechargeable battery with the positive (+) end facing towards the flashlight head.
3. Carefully screw the tail cap back on clockwise until it is fully tightened. Ensure the O-rings are properly seated to maintain the waterproof seal.

2. Charging the Battery

Before first use, fully charge the battery using the provided charger.

1. Connect the charger to a power source.
2. Place the battery into the charger according to the polarity markings.
3. The indicator light on the charger will show the charging status (e.g., red for charging, green for fully charged).
4. Once fully charged, remove the battery from the charger.

3. Attaching the Lanyard

The SD05B features an upgraded tail cap design for easier lanyard attachment.

1. Thread the lanyard through the dedicated slot on the tail cap.
2. Secure the lanyard as desired to prevent accidental drops, especially during underwater activities.

Upgraded Slot for lanyard

SD05B



SD05



VS



The SD05B features an upgraded tail cap for improved lanyard attachment compared to the previous model.

OPERATING INSTRUCTIONS

Magnetic Ring Switch

The Sofirn SD05B uses a magnetic control ring for easy and reliable operation, even underwater.

1. **Turn On/Off:** Rotate the magnetic ring from the 'Off' position (indicated by 'Ø') to any brightness mode (Low, Medium, High) to turn the flashlight on. Rotate it back to 'Ø' to turn it off.
2. **Mode Selection:** While the flashlight is on, rotate the magnetic ring to cycle through the brightness modes: Low (L), Medium (M), and High (H).

CONVENIENT MAGNETIC RING SWITCH

Choose the mode you need
by rotating the switch.

L LOW **M** MED **H** HIGH



The magnetic control ring allows for easy mode selection and power control.

Usage Scenarios

The SD05B is suitable for various activities:

- **Tech Diving:** Provides powerful illumination for technical dives.
- **Underwater Videos/Photography:** Offers consistent light for capturing marine life.
- **Caving:** Durable and bright for exploring dark environments.
- **Beach Combing:** Useful for night exploration along shorelines.



The Sofirn SD05B is a versatile light for various demanding environments.

MAINTENANCE

1. General Care

- After each dive, especially in saltwater, rinse the flashlight thoroughly with fresh water to remove salt and debris.
- Wipe the flashlight dry with a soft cloth.
- Store the flashlight in a cool, dry place away from direct sunlight.

2. O-Ring Maintenance

The O-rings are crucial for maintaining the waterproof seal.

- Regularly inspect the O-rings for any cuts, cracks, or signs of wear.
- Clean any dirt or debris from the O-rings and their grooves.
- Apply a thin layer of silicone grease to the O-rings periodically to keep them supple and ensure a good seal.
- Replace damaged O-rings immediately with the provided spare O-rings or genuine Sofirn replacements.

3. Battery Care

- Remove the battery if the flashlight will not be used for an extended period to prevent potential leakage or damage.
- Store batteries in a protective case to prevent short circuits.
- Recharge batteries before they are completely depleted to prolong their lifespan.

TROUBLESHOOTING

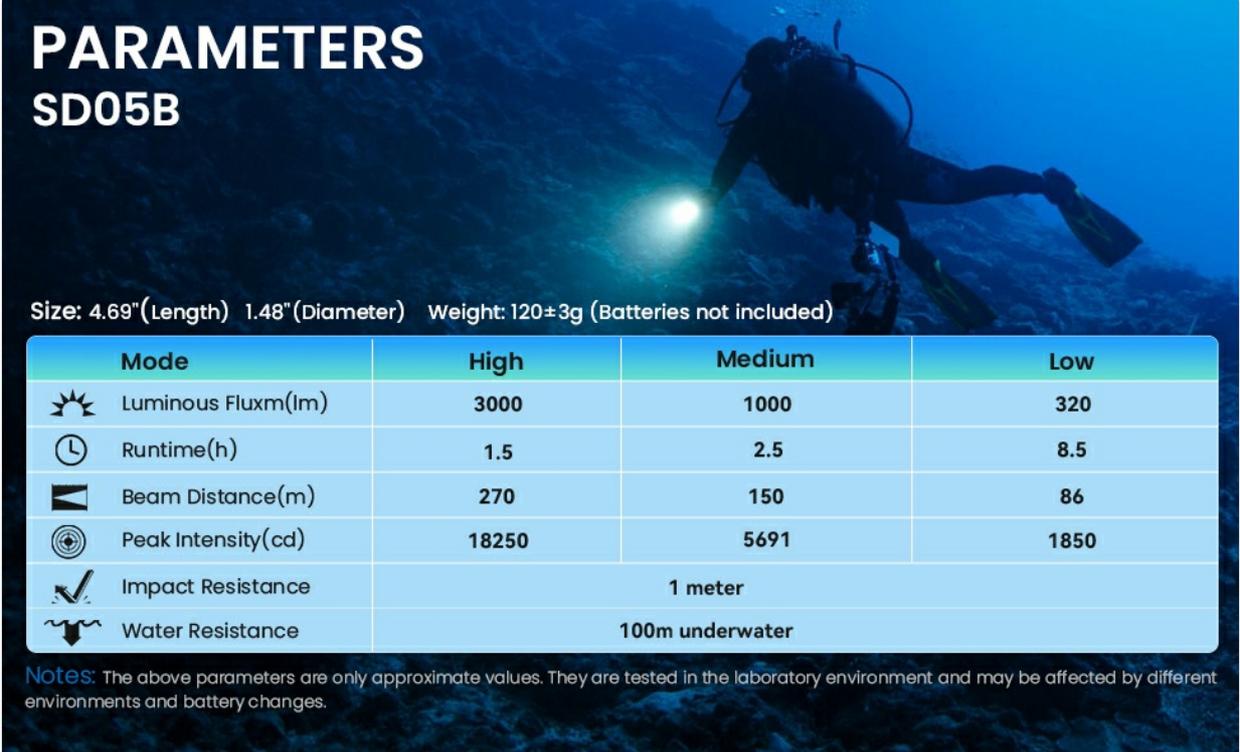
Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery is dead or incorrectly inserted.	Charge the battery or re-insert it with correct polarity.
Flashlight flickers or has low output.	Low battery power; loose connections; dirty contacts.	Recharge battery; ensure tail cap is tightened; clean battery contacts and threads.
Water ingress after diving.	Damaged or improperly seated O-rings; tail cap not fully tightened.	Inspect and clean O-rings, apply silicone grease, replace if damaged. Ensure tail cap is securely tightened before diving.
Magnetic ring switch is stiff.	Saltwater residue or debris.	Rinse the switch area with fresh water and rotate it several times to clear debris.

SPECIFICATIONS

Feature	Detail
Model Number	SD05B
Brand	Sofirn
Light Source Type	LED
Material	Durable Aircraft-Grade Aluminum
Color	Black
Power Source	Battery Powered
Battery Type	Lithium Polymer (1 included)
Water Resistance	IPX8, up to 100 meters underwater
Impact Resistance	1 meter
Dimensions (L x D)	4.69" x 1.48" (11.9cm x 3.76cm)
Mounting Type	Handheld

Mode	Luminous Flux (lm)	Runtime (h)	Beam Distance (m)	Peak Intensity (cd)
High	3000	1.5	270	18250
Medium	1000	2.5	150	5691
Low	320	8.5	86	1850

Note: The above data is approximate and may vary based on battery and environmental conditions.



PARAMETERS SD05B

Size: 4.69" (Length) 1.48" (Diameter) Weight: 120±3g (Batteries not included)

Mode	High	Medium	Low
 Luminous Flux(lm)	3000	1000	320
 Runtime(h)	1.5	2.5	8.5
 Beam Distance(m)	270	150	86
 Peak Intensity(cd)	18250	5691	1850
 Impact Resistance	1 meter		
 Water Resistance	100m underwater		

Notes: The above parameters are only approximate values. They are tested in the laboratory environment and may be affected by different environments and battery changes.

Visual representation of the SD05B's performance parameters across different modes.

WARRANTY INFORMATION

The Sofirn SD05B Dive Light comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship. It does not cover damage caused by misuse, unauthorized modification, improper maintenance, or normal wear and tear. Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

If you encounter any problems or have questions regarding your Sofirn SD05B Dive Light, please contact Sofirn customer service. Refer to the contact information provided with your purchase or visit the official Sofirn website for support.