



## User manual



**D850**  
Max **2500** Lumens

### PRODUCT INTRODUCTION

ORCATORCH D850 is a portable dive light that perfectly combines high output with a long beam distance. It is able to provide an extraordinary lighting experience with its five CREE LEDs and super focus optical design. It has 3 lighting modes, and is equipped with OrcaTorch's unique titanium alloy side button that provides easy and stable operation. Its battery indicator offers instant knowledge of remaining battery life. Furthermore, its unique locking function is perfect for avoiding accidental use.

### PRODUCT FEATURES

- ✓ 5°CREE high power LED, max 2500 lumens
- ✓ Uses 2\*26650 li-ion rechargeable battery
- ✓ Super focus optical design provides 6" beam angle
- ✓ Titanium alloy side button switch, anti-corrosion and stable
- ✓ Safe lock function, prevents accidental operation
- ✓ Battery indicator
- ✓ Intelligent Over-Heat protection
- ✓ Over-charge and discharge protection function
- ✓ Water pressure resistant construction, depth rated to 150 meters
- ✓ Aircraft-grade high strength aluminum material
- ✓ The latest diamond grade hard-anodized seawater-corrosion-resistance finish
- ✓ Alloy aluminum reflector with professional optical analysis
- ✓ Two sides coated toughened glass with high water pressure resistance under deep water

### TECHNICAL PARAMETERS

ANSI/NEMA FL1	High	Middle	Low
Output	2500 Lumens	1050 Lumens	300 Lumens
Runtime	3h30min	5h	13h30min
Intensity	53900cd		
Beam Distance	464m (On land)		
Impact Resistant	1m		
Waterproof	under water 150m		
Working voltage	5.5-8.4 V		
Dimension	228mm(Length) x 34mm(Diameter) x 60mm(Head)		
Net weight	453g(excluding battery)		
Weight in water	355g(excluding battery)		
Accessories	2*26650 batteries, charger, lanyard, O-rings		

Notice: Stated data has been measured according to the international flashlight test standards ANSI/NEMA FL1 using two OrcaTorch 26650 Li-ion batteries (3.7V, 5000mah) under laboratory conditions. The parameters are approximate and may vary between flashlights, batteries, and environments.

### OPERATION INSTRUCTIONS

- Modes selection: Press the side button to switch modes among high, middle, low, off.
- Battery indicator: When the light is turned on, the battery indicator will be on to show the battery level.
  - Green: over 70%
  - Orange: 30%-70%
  - Red: 10%-30%
  - Flashing red: less than 10%
- Safe lock function: Hold on the side switch for 5 seconds, the light will turn off and turn into a state of safe lock. The side switch will be useless unless unlocking it by a double press. (The light will flicker twice when you lock or unlock the switch, the battery indicator will be green when pressing the side button in lock mode.)
- Intelligent Over-Heat protection: This torch is specially designed for underwater use. When used on land for too long, it might get too hot. But this torch would drop down its output automatically once its temperature reaches 65° to avoid damage to the light due to overheat.
- The total running time will be extended significantly if the light is used discontinuously.

### BATTERY REPLACEMENT

- As shown in the figure, insert the battery with the anode side (+) toward the light head.
- Please do not reverse battery to avoid damage to the flashlight and battery.
- Please do not use battery with higher voltage than flashlight working voltage.
- Please do not use battery with damaged surface or deformation to avoid short circuit, explosion, leakage, etc.



### USAGE AND MAINTENANCE

- ✦ Please clean the surface of the light with fresh water and wipe it dry after use in case of the seawater corrosiveness.

- ✦ Do not drop or place the light on sand in case iron sand stick or go into switch section or screw thread.
- ✦ Tighten all the connections of the light before going underwater.
- ✦ Please take out the batteries after each diving.
- ✦ Please don't disassemble the sealed head, doing so may cause damage to the flashlight and will void the warranty.
- ✦ We recommend the use of high quality batteries. If the flashlight will not be used for a long time, remove the batteries to avoid damage from electrolyte leakage or battery explosion.
- ✦ Please replace the O-rings if they are damaged after prolonged use and regularly lubricate the o-rings with silicon grease so as to not erode the rubber. Doing so will keep the flashlight properly sealed against water.
- ✦ Please clean the contacts of your light from time to time, especially when the light flickers or doesn't light up. There are probably several reasons for a flickering or not working light:

Reason A: The batteries need to be replaced.

Solution: Replace batteries (Please confirm correct installation of + and - terminals).

Reason B: The threads, PCB board contact or other contacts are dirty.

Solution: Clean the contact points with an alcohol soaked cotton swab. If the methods above don't work, please contact the distributors and refer to the warranty policy.

### PRODUCT WARRANTY

We will replace products afflicted with manufacturing defects within 30 days of purchase and repair a light free of charge within 12 months of purchase if problems develop under normal use; if repair is required after 12 months from the date of purchase, we will charge for parts. The total repair fee is dictated by the cost of the replaced materials.

Please register your OrcaTorch products through official website [www.orcatorch.com](http://www.orcatorch.com) to get extra 1 year warranty.

### Warning

The flashlight is high intensity lighting device and capable of causing eye damage, please avoid shining the light directly into the eyes.

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