



## User manual



# D860

Max 4200 lumens

### PRODUCT INTRODUCTION

ORCATORCH D860 is a high performance dive light with direct charging function. Powered by three Cree LEDs, it can reach max 4200 lumens. With the direct charging function, the light can be charged without taking out the battery pack. The battery indicator offers instant knowledge of remaining battery level. And the unique designed titanium alloy tail button, with its locking function, can perfectly avoid accidental use. What's more, the handle with special holes allows the light to be attached to various devices freely.

### PRODUCT FEATURES

- ✓ 3\*CREE high power LED, max 4200 lumens
- ✓ Direct charging system with a short charging time of 3.5 hours
- ✓ Replaceable INR battery pack
- ✓ Titanium alloy tail button switch, easy operation
- ✓ Safe lock function, avoid misoperation
- ✓ Specially designed handle, easy to carry and assemble
- ✓ Battery indicator
- ✓ LED Charging 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
<b>Output</b>	4200 Lumens	1500 Lumens	500 Lumens
<b>Runtime</b>	1h	4h30min	14h
<b>Beam Distance</b>	310m (On land)		
<b>Intensity</b>	24000 cd		
<b>Impact Resistant</b>	1m		
<b>Waterproof</b>	under water 150m		
<b>Working voltage</b>	6-8.4 V		
<b>Charging input</b>	8.4 V $\overline{\text{---}}$ 4A		
<b>Charging time</b>	3.5 hours		
<b>Dimension</b>	189mm(Length) x 51mm(Diameter) x 64mm(Head)		
<b>Net weight</b>	773g		
<b>Weight in water</b>	345g		
<b>Accessories</b>	Battery pack, home charger, lanyard, O-rings		

**Notice:** Stated data has been measured according to the international flashlight test standards ANSI/NEMA FL1 under laboratory conditions. The parameters are approximate and may vary between flashlights, batteries, and environments.

### OPERATION INSTRUCTIONS

1. ON/OFF: Insert the battery pack, tighten the light head, the light will turn on default low mode, press the tail switch button to turn it off.
2. Modes selection: When the light is on, press the tail button to switch modes among high, middle, low, off.
3. Charging: Unscrew the DC port cap and connect the DC port to the power source by the included home charger, the flashlight will start charging. The charging indicator on the home charger will turn from red to green once the battery pack is fully charged and the charging will stop automatically.
4. Safe Lock function: This function works when battery pack is inserted. The light will turn into "safe lock mode" automatically when the light is in off mode for over 3 minutes. In this lock mode, pressing the tail switch will only turn on the LED indicator; you need to keep press the button for over 2 seconds to turn the light on.
5. Battery indicator: When the light is on, the battery indicator at light tail would show status of battery power. When the battery power is over 30%, the indicator is green. The indicator will turn red when battery power is less than 30%, and the indicator will be in red and keep flashing when battery power is less than 10%.
6. 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.
7. The total runtime will be extended significantly if the light is used discontinuously.

### BATTERY USAGE:

1. As shown in the figure, unscrew the light head and insert the battery pack.
2. Do not use any battery pack or cell which is not designed for use with the product.
3. Battery give their best performance when operated at normal room temperature 20 C  $\pm$  5°C.
4. When possible, remove the battery from the light if the light will not be used for a long time.



### 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 don't disassemble the sealed head, doing so may cause damage to the flashlight and will void the warranty.
- ✦ 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.

### 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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