



## User manual



# D810

## Max 950 Lumens

### PRODUCT INTRODUCTION

ORCATORCH D810 is a portable flashlight with a mechanically head rotary switch for technical diving use. The mechanically rotary switch offers high reliability underwater. Utilize USA CREE XM-L2(U2) LED, max 950 lumens output, and its runtime is over 3 hours by using a single 26650 battery. Plus simple style appearance, robust water pressure resistant construction, we believe it will be a reliable lighting tool for diving.

### PRODUCT FEATURES

- ✓ Cree XM-L2(U2) LED, 950 lumens output
- ✓ Uses one 26650 battery
- ✓ Mechanically head rotary switch offers high reliability underwater
- ✓ Water pressure resistant construction, depth rated to 150 meters
- ✓ High efficiency constant current circuit, constant brightness
- ✓ Reverse polarity protection, to protect from improper battery installation
- ✓ Low battery warning function
- ✓ Over-discharge protection function
- ✓ Aircraft-grade high strength aluminum material
- ✓ Premium Type III military hard-anodized seawater-corrosion-resistance finish
- ✓ Alloy aluminum reflector with professional optical analysis
- ✓ Toughened glass with two-side coating

### TECHNICAL PARAMETERS

ANSI/NEMA FL1	Mode
Output	950 Lumens
Runtime	3h10min
Beam Distance	320m (On land)
Intensity	25530cd
Impact Resistant	1m
Waterproof	under water 150m
Working voltage	3 – 15 V
Dimension	146mm(Length) x 34mm(Diameter) x 50mm(Head)
Net weight	262g (excluding battery)
Accessories	26650 battery, charger, arm strap, O-ring, lanyard

**Notice:** Stated data has been measured according to the international flashlight test standards ANSI/NEMA FL1 using one OrcaTorch 26650 Li-ion batteries (3.7V, 4000mah) under laboratory conditions. The parameters are approximate and may vary between flashlights, batteries, and environments.

### OPERATION INSTRUCTIONS

1. ON/OFF: Insert the battery and tighten the light head to turn on the flashlight, unscrew the light head to turn it off.
2. We recommend to tighten the light head to turn on the light before you go underwater, and do not unscrew the light head until you have gone out of water to avoid leaking underwater.
3. Low battery warning: D810 will flicker twice every minute to remind you that the battery level is low. Please get out of the water within 30 minutes if there is no backup light with you.
4. The total runtime will be extended significantly if the light is used discontinuously.



### BATTERY REPLACEMENT

1. As shown in the figure, insert the battery with the anode side (+) toward the light head.
2. Please do not reverse the battery to avoid damage to the flashlight and battery.
3. Please do not use battery with higher voltage than the flashlight working voltage.
4. 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. For rotary switch flashlight, we recommend to tighten the switch to turn on the light before you go underwater, and do not unscrew the switch until you have gone out of water to avoid leaking 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 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.

### ORCATORCH TECHNOLOGY LIMITED

Tel: +86-755-33560383 Fax: +86-755-29454989

Email: info@orcatorch.com www.orcatorch.com

Address: 7F, Building 6, Yusheng Industrial Park, Gushu, Xixiang, Baoan, Shenzhen, China (518102)



www.orcatorch.com