



User manual



D820V

Max 1600 lumens

PRODUCT INTRODUCTION

ORCATORCH D820V is a compact and lightweight USB charging video light. It has 120 degrees super wide floodlighting with no blind angle for underwater photography. D820V offers three kinds of light sources: Neutral white, UV and Red, which not only helps your photography or videography in the dark water but also can create amazing fluorescence of marine organisms. The unique designed titanium alloy side button switch provides easy operation underwater.

PRODUCT FEATURES

- ✓ Three lighting sources: neutral white, red and UV
- ✓ 120 degrees super wide floodlighting
- ✓ Titanium alloy side button switch, easy operation
- ✓ Safe lock function, avoid misoperation
- ✓ USB charging function
- ✓ LED charging indicator
- ✓ Intelligent Over-Heat protection
- ✓ Smart rechargeable Li-ion battery
- ✓ Water pressure resistant construction, depth rated to 150 meters
- ✓ Reverse polarity protection, to protect from improper battery installation
- ✓ Over-discharge protection function
- ✓ Aircraft-grade high strength aluminum material
- ✓ The latest diamond grade hard-anodized seawater-corrosion-resistance finish
- ✓ Two sides coated toughened glass with high water pressure resistance under deep water

TECHNICAL PARAMETERS

ANSI/NEMA FL1	High	Low	Red	UV
Output	1600 lumens	550 lumens	250 lumens	-
Runtime	2h	4h	3h25min	6h40min
Impact Resistant	1m			
Waterproof	under water 150m			
Working voltage	3-4.2 V			
Dimension	153mm(Length) x 30mm(Diameter) x 45mm(Head)			
Net weight	250g (excluding battery)			
Accessories	1*rechargeable battery, USB cable, ball joint, lanyard, O-rings			

Notice: Stated data has been measured according to the international flashlight test standards ANSI/NEMA FL1 using one OrcaTorch smart rechargeable Li-ion battery (3.7V, 500mah) under laboratory conditions. The parameters are approximate and may vary between flashlights, batteries, and environments.

OPERATION INSTRUCTIONS

1. ON/OFF: Unscrew the light tail and charging connector, insert the smart rechargeable Li-ion battery (With unique dual polarity design, no direction limited), tighten the charging connector and light tail. Then you can press the side button to turn the light on.
2. Modes selection: When the light is on, press the side button to switch modes among high, low, off. Press the button for 2 seconds to access the hidden UV/red lighting mode. Then you can press the button to switch between UV and red. If you want to get back to white mode, press the switch for 2 seconds.
3. Charging: Unscrew the light tail and connect the Micro-USB to the power source with the included USB cable. The charging indicator will turn red when the battery is charging and will turn green once battery is fully charged.
4. Safe Lock function: This function works when battery 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, press the side switch will only turn on the LED indicator on light head; you need to keep pressing the side button for over 2 seconds to turn the light on.
5. Battery indicator: When the light is on, the power indicator on light head 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 photography. 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 REPLACEMENT

1. As shown in the figure, unscrew the light tail and charging connector, insert the smart rechargeable Li-ion battery (With unique dual polarity design, no direction limited), tighten the charging connector and light tail.
2. Please do not use battery with higher voltage than flashlight working voltage.
3. 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 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.

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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