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ORCATORCH D630

ORCATORCH D630 V2.0 Primary Canister Dive Light User Manual

Model: D630 | Brand: ORCATORCH

Introduction

The ORCATORCH D630 V2.0 is a high-performance primary canister dive light designed for professional technical diving, including cave, wreck, and night diving. Featuring 5 imported LEDs, it delivers a powerful 4000 lumen output with an ultra-long runtime, ensuring reliable illumination in demanding underwater environments. Its versatile design allows for both straight and side-mounted configurations, adapting to various diving setups.



Figure 1: Overview of the ORCATORCH D630 V2.0 Canister Dive Light, highlighting its powerful illumination and versatile mounting options.

Key Features

- **4600 Lumen Output:** Utilizes 5 imported LEDs to provide an intense light beam with a distance of 400 meters on land. Ideal for technical diving activities such as cave and wreck diving.
- **Adjustable Cable for Mounting Versatility:** Features an angle-adjustable cable allowing 90° to 180° rotation between the canister and light head, making it suitable for both sidemount and backmount diving. The cable length is 1.5 meters.
- **Ultra-Long Runtime:** Offers up to 5 hours of operation at the brightest mode. The battery pack can also function as a power bank.
- **Reliable & Convenient Operation:** A built-in battery indicator LED on the light head displays real-time battery level. The unique titanium alloy switch controls 3 lighting modes and includes a locking function to prevent accidental activation.
- **Smart Switch Locking Design:** Press and hold the side switch for 5 seconds when off to activate the safe lock. Double-click to unlock. The light blinks twice to confirm lock/unlock status. In lock mode, pressing the button will only illuminate the green battery indicator.



Figure 2: The adjustable cable allows for flexible positioning of the light head relative to the battery canister, accommodating various diving configurations.



Figure 3: Detailed view of the upgraded switch locking design and LED battery status indicator, showing green for over 30%, red for 10-30%, and flashing red for less than 10% battery.

Components Overview

The ORCATORCH D630 V2.0 comes with the following main components and accessories:

- Light Head with Goodman Handle
- Battery Canister
- Connecting Cable (1.5 meters)
- Charger
- Spare O-rings
- User Manual

- Carrying Case



ANSI/NEMA FL1	High	Middle	Low
Output	4600 Lumens	1700 Lumens	460 Lumens
Runtime	4h20mins	7h 10mins	24h
Distance Beam	400m (On land)		
Intensity	40000 cd		
Resistant Impact	1m		
Waterproof	150m		
Working voltage	6-8.4 V		
Charging time	3h 30mins		
Dimension	Canister: 209mm/8.2in(Length) x 59mm/2.3in(Diameter) Torch: 96mm/3.8in(Length) x 60mm/2.4in(Diameter)		
Net weight	1420g(Including battery pack)		
Weight in water	600g (Including battery pack)		
Accessories	H620 Goodman handle*1, O-ring*3, Charger*1, Battery Pack*1		

Figure 4: Contents of the ORCATORCH D630 V2.0 package, showing the light head, battery canister, connecting cable, charger, spare O-rings, and carrying case.

Initial Setup

1. **Charging the Battery:**

   Before first use, fully charge the battery pack. Connect the charger to the battery canister and plug it into a power outlet. The charging indicator on the charger will show the charging status. A full charge typically takes approximately 3 hours and 30 minutes.

2. **Connecting Light Head to Canister:**

   Carefully align the cable connector from the light head with the port on the battery canister. Ensure the

connection is secure and fully tightened to maintain waterproof integrity. The cable allows for angle adjustment (90° to 180°) to suit your mounting preference.



Figure 5: Proper connection of the light head to the battery canister, ensuring a secure and waterproof seal.

3. **Mounting the Light:**

   Attach the Goodman handle to the light head. The canister can be secured to your BCD or tank strap using the provided straps or by rigging with bolt snaps for sidemount configurations. Adjust the cable angle as needed for optimal light positioning.

Operating Instructions

Power On/Off and Mode Selection:

The D630 V2.0 features a single titanium alloy side switch for all operations.

- **To Turn On:** Press the side switch once. The light will turn on in the last used mode.
- **To Cycle Modes:** With the light on, press the side switch repeatedly to cycle through High, Middle, and Low modes.
- **To Turn Off:** Press and hold the side switch for approximately 1 second.

Brightness Modes and Runtime:

Mode	Output (Lumens)	Runtime
High	4600	4h 20mins
Middle	1700	7h 10mins
Low	420	24h



Figure 6: Visual representation of the three brightness modes and their respective lumen outputs and runtimes.

Switch Locking Function:

To prevent accidental activation during transport or storage:

- **To Lock:** With the light off, press and hold the side switch for 5 seconds. The light will blink twice to indicate it is locked. When locked, pressing the button will only illuminate the green battery indicator.
- **To Unlock:** Double-click the side switch. The light will blink twice to confirm it is unlocked and ready for use.

Battery Indicator:

The LED indicator on the light head provides real-time battery status:

- **Green:** Battery level over 30%.
- **Red:** Battery level between 10% and 30%.
- **Flashing Red:** Battery level less than 10%.

Underwater Use Cases:

The ORCATORCH D630 V2.0 is rigorously tested for various underwater applications:

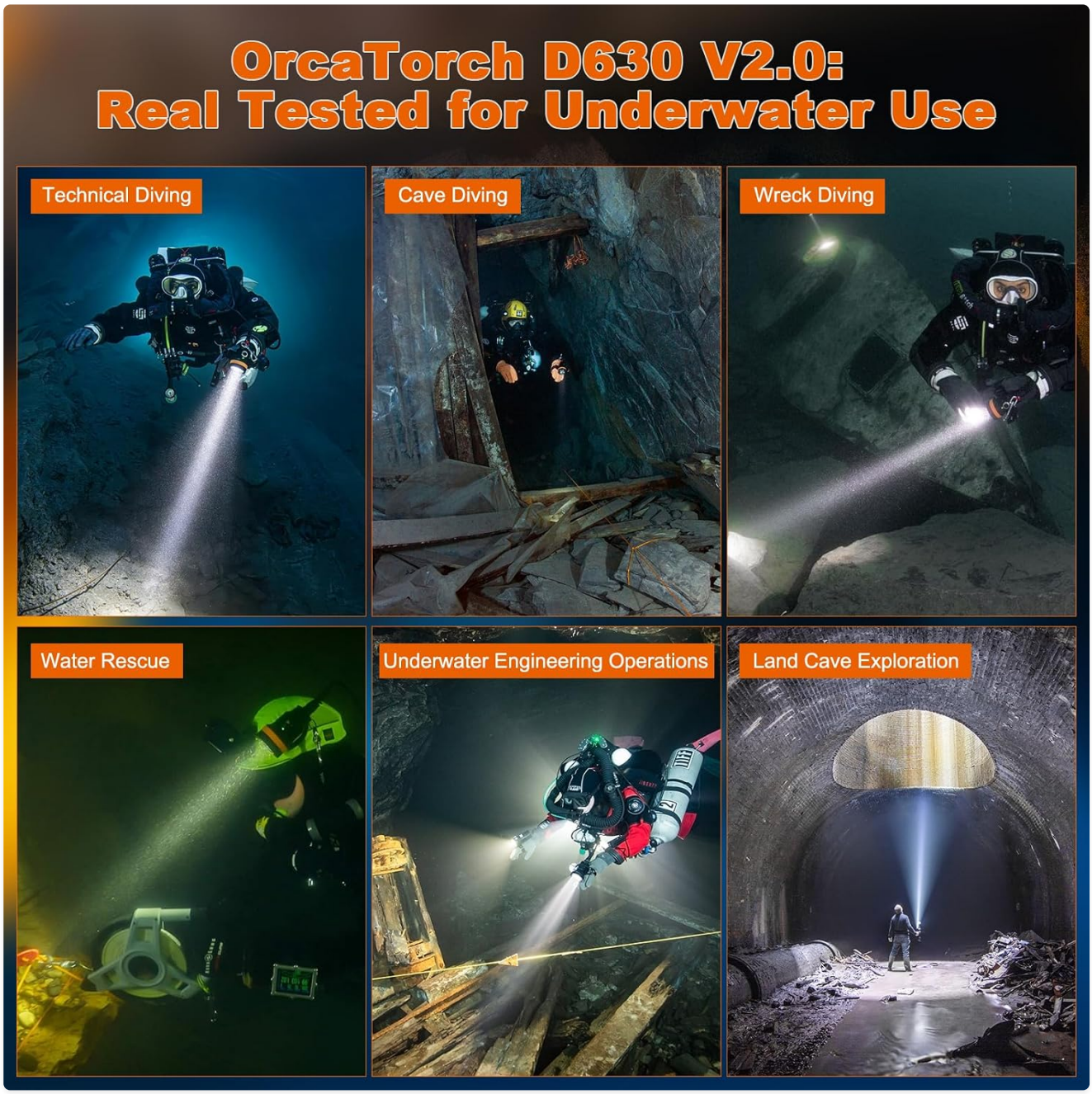


Figure 7: The D630 V2.0 is suitable for a wide range of demanding underwater activities, including technical, cave, and wreck diving, as well as water rescue and underwater engineering operations.

Official Product Videos:

ORCATORCH D630 Canister Primary Dive Light for Cave Diving

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This video demonstrates the ORCATORCH D630 canister dive light in a cave diving environment, showcasing its powerful beam and suitability for technical underwater exploration. The video highlights the light's performance in low-visibility conditions and its robust design for demanding use.

The OrcaTorch D630 Canister Light for Cave and Wreck Diving

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A brief video showcasing the OrcaTorch D630 canister light's application in both cave and wreck diving scenarios. It emphasizes the light's ability to illuminate dark, confined spaces, making it an essential tool for advanced underwater exploration.

Maintenance

- **Rinse After Each Dive:** After every dive, thoroughly rinse the light and canister with fresh water to remove salt, sand, and other debris.
- **Inspect O-rings:** Regularly inspect the O-rings for any signs of wear, cracks, or damage. Lubricate them with silicone grease as needed. Replace damaged O-rings immediately using the provided spares.
- **Clean Threads:** Keep the threads of the light head and canister clean and free of debris.
- **Battery Care:** Store the battery pack in a cool, dry place. If storing for an extended period, charge the battery to approximately 50% capacity every 3-6 months to prolong its lifespan.
- **Avoid Over-Discharging:** Do not allow the battery to completely drain, as this can reduce its overall lifespan.

Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	Battery is depleted. Light is in lock mode. Loose connection.	Recharge the battery. Double-click the switch to unlock. Ensure cable connection is tight.
Light flickers or dims unexpectedly.	Low battery. Loose connection.	Recharge the battery. Check and tighten cable connection.
Water ingress (leak).	Damaged or improperly seated O-rings. Loose threads.	Inspect and replace O-rings. Ensure threads are clean and fully tightened. Immediately rinse with fresh water and dry if water ingress occurs.

SPECIFICATIONS

Feature	Detail
Brand	ORCATORCH
Model	D630
Color	Black
Material	Aluminum
Light Source Type	Light Emitting Diode (LED)
Number of Light Sources	5
Brightness	4000 Lumen (Max)
Light Source Wattage	40 Watts
Power Source	Battery Powered (Lithium-Ion)
Voltage	8.4 Volts
Product Dimensions (Light Head)	3.86"W x 2.32"H (96mm x 60mm Diameter)
Product Dimensions (Canister)	2.36"L x 2.32"H (209mm x 59mm Diameter)
Item Weight	3.02 Pounds (1420g including battery pack)
Waterproof Depth	150 meters
Impact Resistance	1 meter
Charging Time	3h 30mins



Figure 8: Detailed dimensions of the ORCATORCH D630 V2.0 light head and battery canister.

Warranty and Support

ORCATORCH provides comprehensive customer support and warranty services for its products.

- **Warranty Period:** ORCATORCH offers a 2-year free replacement policy for products to ensure customer satisfaction.
- **Quality Assurance:** All ORCATORCH products undergo strict quality testing before shipment, covering production, warehousing, packaging, and shipping stages.
- **Contact Support:** For any inquiries, technical assistance, or warranty claims, please refer to the official ORCATORCH website or contact their customer service directly.

For more information, visit the official ORCATORCH website or refer to the contact details provided in your product packaging.

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