**ORCATORCH D560 Underwater Laser Light**

**ORCATORCH D560 水下激光灯**

ORCATORCH D560水下激光灯是一款专门为休闲潜水和商业潜水设计的激光潜水手电。红绿两种激光款式可选。兼容14500可充电锂离子电池以及AA电池，同时满足您经济环保的需求以及随时随地使用的需求。

OrcaTorch D560 underwater laser light is specially designed for recreational diving and commercial diving. We offer two options of red or green laser for your choices.It’s compatible with two kinds of batteries.It’s economical and environment-friendly by using 14500 Li-ion rechargeable battery, and it’s low cost and easy to buy by using AA battery.

产品特点：

* 使用1节AA电池或14500锂离子电池
* 头部机械式旋转开关，稳定可靠
* 专业抗压防水结构设计，潜水深度达150米
* 高效恒流电路，亮度恒定
* 防反接设计，防止电池反装对电路造成损害
* 过放保护功能
* 采用高强度航空级铝材
* 表面采用新一代钻石级抗腐蚀氧化处理
* 专业光学分析设计的铝合金光杯
* 双面镀膜防刮抗压钢化玻璃镜片

**PRODUCT FEATURES**

* Uses a single AA battery or 14500 Li-ion 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
* Over-discharge protection function
* 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

技术参数：

|  |  |  |
| --- | --- | --- |
| 使用电池型号 | AA电池 | 14500电池 |
| 续航时间 | D560-GL | 2小时36分 | 5小时 |
| D560-RL | 10小时24分 | 17小时30分 |
| 最远射程 | >1000米(陆地) |
| 防跌落高度 | 1米 |
| 防水等级 | 水下150米 |
| 工作电压范围 | 0.8-4.2 V |
| 尺寸 | 92mm（长）x 20mm（直径）x 24mm（筒头） |
| 净重 | 50g（不包括电池） |
| 附件 | 2节AA电池、手绳、O型圈 |

注：以上参数按照国际手电筒测试标准ANSI/NEMA FL1所述测量方法,分别使用1节AA电池（1.5V, 1500mAh）、1节OrcaTorch 14500锂离子电池（3.7V，700mAh）在实验室环境中测试所得。测试参数为近似值，可能会随着手电、电池和使用环境而发生变化。

**Technical Parameters:**

|  |  |  |
| --- | --- | --- |
| **Battery Model** | AA battery | 14500 battery |
| **Runtime** | D560-GL | 2h36min | 5h |
| D560-RL | 10h24min | 17h30min |
| **Beam Distance** | >1000m(On land) |
| **Impact Resistant** | 1m |
| **Waterproof** | under water 150m |
| **Working voltage** | 0.8-4.2 V |
| **Dimension** | 92mm（Length）x 20mm（Diameter）x 24mm（Head） |
| **Net weight** | 50g（excluding battery） |
| **Accessories** | 2\*AA batteries,Lanyard, O-ring, |

**Notice**:

Stated data has been measured according to the international flashlight test standards ANSI/NEMA FL1 using one AA Ni-MH battery（1.5V, 1500mAh）and one OrcaTorch 14500 Li-ion batteries (3.7V, 700mah) under laboratory conditions. The parameters are approximate and may vary between flashlights, batteries, and environments.

操作说明：

1. 开关机：装入电池拧紧筒头，即可开启手电，拧松筒头即可关闭手电。

2. 建议入水前拧紧筒头开启手电，出水后拧松筒头关闭手电，以防进水。

3. 手电在不连续使用的情况下，总续航时间将会显著延长。

**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. The total runtime will be extended significantly if the light is used discontinuously.

**电池更换：**

1. 如图，将电池正极朝灯头方向，负极朝筒尾方向装入筒身；
2. 请勿反装，以免造成手电和电池的损坏；
3. 请勿使用超电压电池，以免损坏手电；
4. 请勿使用表面有破损或变形的电池，以免发生短路、爆炸、漏液等情况。

Battery Replacement:

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

**使用与维护：**

* 由于海水具有腐蚀性，请在使用后用清水冲洗手电表面，并擦干水份。
* 请勿将手电放在沙地上，以防止细沙进入手电开关或螺纹缝隙。
* 拧紧电筒所有连接处后方可入水。对于旋转开关手电，建议入水前拧紧开关开启手电，出水后拧松开关关闭手电，以防进水。
* 每次潜水后请将电池取出。
* 请勿拆卸灯具头部密封部件，否则将会导致保修失效并可能损坏灯具。
* 请使用优质电池，并且当长期不用灯具时将电池从灯具中取出，否则可能因电池漏液或者爆炸，造成灯具损坏。
* 长期使用后，灯具的O型圈可能受到损坏。如果发现了这种情况，请您更换O型圈以维持手电的防水性能。为保持O型圈（密封胶圈）及螺纹旋动顺畅，请定期在其表面涂抹硅脂润滑。
* 请经常清洁灯具的导电接触面以保证灯具的正常工作，特别是当灯具出现异常的闪烁或者无法点亮的时候。以下是几个可能导致灯具出现异常的闪烁或者无法点亮的原因：

原因一：电池电量不足，需要更换。

解决方案：更换电池（装入新电池时请注意正负极方向）

原因二：螺纹或者PCB板的导电接触面或其他接触面/接触点被弄脏了。

解决方案：用酒精棉签清洁导电接触面或接触点。

如果上述方法无效，请联系经销商并按照售后服务条款保修。

**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.

**保修条款：**

一、30天包换期：本产品自售出之日起30天内，在正常使用情况下，出现产品质量问题，客户可选择维修服务或者更换同型号同规格的新品。如同型号同规格的产品停止生产或因其他原因不能在合理时间内安排更换，则调换不低于原产品性能的同品牌产品。

二、1年免费保修期：本产品自售出之日起1年内，用户在正常使用情况下，出现产品质量问题，则享受免费维修服务。因使用不当或擅自改装、维修而引起的产品缺陷、损坏，不在保修范围内。

三、终身有限保修：在超过1年免费保修时间外，ORCATORCH将提供有偿保修服务，费用以实际更换材料费用为准，不另收取人工费用。

四、消费者保修时凭ORCATORCH《保修卡》、购物发票或收据、网上购物时销售商提供的销售凭证与经销商联系，由经销商对消费者提供服务，我公司将对经销商提供服务支持。

请通过官方网址[www.orcatorch.com注册您的产品以获得1](http://www.orcatorch.com注册您的产品以获得1)年延保。

**警示：**

本产品亮度极高，请勿直视发光体，以免造成视力损伤。

**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.