User manual

D580

Max 530 Lumens

PRODUCT INTRODUCTION

OrcaTorch D580 is a professional underwater dive light with max 530 lumens output. Mechanically head rotary switch offers high reliability underwater. The light is compatiable with two types of batteries: 1* 18650 Li-ion rechargeable battery, which is economic and eco-friendly, and 3*AAA Alkaline batteries, which are low cost and easy to get. It has 6 degrees super narrow beam, quite suitable for recreational diving as a primary light and for technical diving as a backup light.

PRODUCT FEATURES

- ✓ Uses CREE LED, max 530 lumens
- ✓ Uses 3*AAA batteries, compatible with 1*18650 battery
- ✓ Max 3h 30mins runtime
- ✓ 6° beam angle
- ✓ Mechanically head rotary switch offers high reliability underwater
- ✓ Intelligent Over-Heat protection
- ✓ 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/NEMAFL1	**3*AAA Battery**	**1*18650 Li-ion battery**
Output	480 Lumens	530 Lumens
Runtime	2h 50mins	3h 30mins
Impact Resistant	1.5 m	
Waterproof	Under water 150m	
Working voltage	3.0-4.8V	
Dimesion	128.5mm(Length)*27mm(Tube)*35.5mm(Head)	
Net weight	125g	
Accessories	3*AAA battery,Battery shield,Lanyard,Spare O-rings, Brand rubber bands,User manual	

Notice:Stated data has been measured according to the international flashlight test standards ANSI/NEMA FL1 using one Orca Torch 18650 Li-ion battery (3.7V. 3400mah) and three Gassner AAA Alkaline battery 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. The total runtime will be extended significantly if the light is used discontinuously.

BATTERY REPLACEMENT

1. As shown in the figure, a & b battery options. 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 the flashlight's working voltage.
4. Please do not use battery with damaged surface or deformation to avoid short circuit, explosion, leakage, etc.

a. AAA Battery *3 + Battery Shield

b. 18650 Battery *1

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 corrosion sand sticks or goes into switch section or screw thread.
✧ Tighten all the connections of the light before going 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 with silicon grease so as to not erode the rubber. Doing so will keep the flashlight properly sealed against water.
✧ Please clean the conductive surface of your light from time to time, especially when the light flickers or doesn't light up. There are probably several causes for a flickering or not working light:

Cause A: The batteries need to be replaced.
Solution: Replace batteries (Please confirm correct installation of + and - terminals).
Cause 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.

Please register your OrcaTorch products through official website www.orcatorch.com to get extra 1-year warranty.

Warning
The flashlight is a high intensity lighting device and capable of causing eye damage, please avoid shining the light directly into the eyes.

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ORCATORCH

说 明 书

D580

最高亮度 530 流明

产品介绍

ORCATORCH D580是一款专为潜水设计的潜水手电，最高亮度530流明。头部机械式旋转开关，稳定可靠。通用3节AAA　兼容18650电池。拥有6°超强聚光，完美光斑，适用于休闲潜水，也可以作为潜水备用灯。

产品特点

- ✓ 采用Cree LED，高亮530流明
- ✓ 通用3节AAA 兼容18650电池
- ✓ 3 小时 30 分钟超长续航时间
- ✓ 6° 超强聚光，完美光斑
- ✓ 头部机械式旋转开关，稳定可靠
- ✓ 智能高温保护功能
- ✓ 专业抗压防水结构设计，潜水深度达150米
- ✓ 防反接设计，防止电池反装对电路造成损害
- ✓ 电池过放保护功能
- ✓ 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
- ✓ 双面镀膜防刮抗压钢化玻璃镜片,深水抗压能力强

技术参数

ANSI/NEMA FL1	AAA 干电池	18650 锂离子电池
亮度	480 流明	530 流明
续航	2 小时 50 分	3 小时 30 分
抗跌落高度	1.5 米	
防水等级	IP68 水下 150 米	
工作电压	3.0-4.8V	
尺寸	128.5mm（长）*27mm（筒身直径）*35.5mm（灯头直径）	
净重（手电）	125g	
配件	3*AAA 电池，电池支架，挂绳，备用防水圈，说明书，品牌橡胶圈	

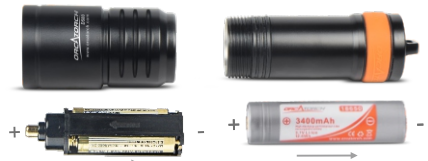
注：以上参数按照国际手电筒测试标准ANSI/NEMA FL1所述测量方法,分别使用1节OrcaTorch 18650锂离子充电电池（3.7V，3400mah）和3节AAA电池在实验室环境中测试所得。测试参数为近似值，可能会随着手电、电池和使用环境而发生变化。

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。

更换电池

1. 如图，a，b电池方案，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。



a. 3节AAA电池 + 电池仓　　b. 1*18650电池

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。
- 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。

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。

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