

KLARUS®



P20 Pen Light

Features

- Nichia 219C LED, max output up to 230 lumens, max runtime up to 193 hours.
- High CRI (color rendering index) LED, CRI ≥90, (5000K), simulate natural lighting.
- 2 AAA batteries, easy to power.
- PMMA optical lens, 92% light transmission.
- Professional lens system design, soft even spot without dark area to avoid mistakes in exams.
- Zero blue ray damage (RG0) to the eyes, perfectly suited for pupil examination.
- Streamlined pen design, lightweight, stylish, easy to carry.
- Stainless steel clip on aluminum flashlight tube with excellent grip texture.
- The current output mode will be memorized when the flashlight is turned on for 3 seconds, the output will automatically return to this mode when powered ON. Lightly depress the tail switch within 3 seconds to change the modes (High/Med/Low).
- Reverse polarity protection to prevent circuit damage from reversed battery insertion.
- Aerospace Aluminum alloy body and Mil-spec hard anodizing (HA III); abrasion resistant, lightweight and robust.
- Stainless steel bezel design protects the lens and reflector system from drops and impacts.

Specifications

- Features Nichia 219C LED, 5000K, 50,000 hours lifetime
- 3 light levels

Mode	High	Medium	Low
ANSI lumens (LM) AAA*2 batteries	230	66	4
Runtime(h) AAA*2 batteries	34min	15h	193h
Peak beam intensity(cd)	1059		
Max beam distance(m)	65		
Impact resistance(m)	1.5		
Waterproof	IPX-8(under water 2m)		

- Batteries: 2 AAA alkaline or NI-MH batteries (can't use 10440 Li-ion batteries)
- Size: 133mm (Length) *14.2mm (bezel) *12.9mm (body diameter)
- Net weight: 26kilogram (without batteries)
- Working voltage: 1.8-3.3V
- Lens: PMMA optical material, with light transmittance up to 92% light transmission
- Color: Black

• Waterproof: IPX-8(underwater 2 metres)

• Accessories: O ring

Notice: The above data has been measured in accordance with international flashlight testing standards ANSI/NEMA FL1 using 2pcs high performance AAA batteries under laboratory conditions. The data may vary slightly during actual use due to battery type, individual usage habits and environmental factors. KLARUS is a member of PLATO, participating in and helping to develop the ANSI/NEMA FL1 standard of measurement. Product testing data is in accordance with these internationally recognized scientific standards

Operation

The current output mode will be memorized when the flashlight is turned on for 3 seconds, the output will automatically return to this mode when powered ON. Lightly depress the tail switch within 3 seconds to change the modes (High/Med/Low)

Battery replacement



Unscrew the flashlight head, insert two batteries with the negative polarity toward the switch, and screw the head.

Safe Usage and Maintenance

- Clean the surface of the light with a dry cleaning cloth; clean the lens with a soft cleaning cloth.
- Examine the O-ring regularly. Replace and lubricate O-Rings as to maintain the waterproof ability of the flashlight.
- Do not shine light directly into eyes of animals or human beings
- Remove batteries when storing for extended periods.

Warranty

• KLARUS guarantees the flashlight against defects in material and workmanship. Flashlight products that are found to be defective under normal use within 5 years of the proof of purchase date will be repaired or replaced without charge.

• This warranty does not cover damage caused by accident, unreasonable use or product alteration. Failure to follow the general maintenance directions could result in damage to your flashlight that may not be covered by the KLARUS warranty.

Limited lifetime warranty

If problems develop after 5 years from the date of purchase, KLARUS will charge for parts. The total repair fee will be assessed according to the cost of the replacement materials. If damage to the light is substantial, KLARUS will contact the customer via the distributor with a quote. The customer can then decide whether to proceed with the repairs or not. Freight will be paid by distributor or customer.

Warranty Procedure

- If this flashlight does not perform to the specification, the product will be repaired or replaced as described above.
- Please contact your original KLARUS dealer for replacement and repairs.
- If the warranty issue cannot be resolved by the dealer, please contact KLARUS at info@klaruslight.com for assistance. Please provide the following information to expedite the process:
 - 1) List the series number on the light.
 - 2) Include a detailed description identifying the issue, accompanied by pictures or a short video demonstration if necessary.
 - 3) Provide the name and store of the dealer you made the purchase from; and a copy of the proof of purchase.



Website



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KLARUS®



P20 笔形手电

特点

- 采用进口日亚219C LED, 亮度高达230流明, 最长续航长达193小时。
- 高显色性LED, CRI ≥90, 色温为5000K, 物体本真还原度极佳。
- 使用两节AAA电池, 通用性强。
- 透镜采用透光率达92%的PMMA光学材料制作。
- 专业光学系统设计, 光斑均匀柔和和无暗区, 避免误诊。
- 零级蓝光危害RG0, 不对眼睛造成伤害, 便于瞳孔检查。
- 流线型笔形设计, 时尚轻巧, 便于携带。
- 不锈钢抱夹搭配铝合金筒身, 质感非凡。
- 高中低三档循环, 出厂默认最高亮档。开机3秒后记忆, 3秒内开关机换挡。
- 防反接设计, 防止电池装反造成电路危害。
- 航天级铝合金材质, 军工三级硬质阳极氧化处理, 耐磨、轻便、坚固。
- 头部不锈钢压环, 坚固耐摔耐用。

规格

- 使用进口日亚219C LED, 色温5000K, 寿命50000小时
- 3种亮度模式

ANSI/NEMA FL1	高亮	中亮	低亮
亮度 (Lm) (AAA*2电池)	230	66	4
续航时间 (h) (AAA*2电池)	34min	15h	193h
最高光强度 (cd)	1059		
高亮射程 (m)	65		
防跌落 (m)	1.5		
防水级别	IPX8级防水 (水下2m)		

- 电池: 使用2节AAA碱性或者镍氢电池 (不能使用10440锂离子充电电池)
- 尺寸: 133mm (长) *14.2mm (头) *12.9mm (身)
- 净重: 26克 (不含电池)
- 工作电压: 1.8-3.3V
- 透镜: 透光率达92%的PMMA光学材料
- 颜色: 黑色
- 防水: IPX-8设计(水下2米)
- 配件: O型圈

备注:

以上参数是按照国际手电筒测量标准ANSI/NEMA FL1所述之方法测量所得,

所使用电池为2节高性能AAA电池, 实际数据可能会随着不同电池或使用环境而产生影响。
KLARUS是美国手电筒行业协会 (PLATO) 的成员, 参与制定和优化ANSI/NEMA FL1手电标准, 产品测试数据标准科学式。

操作说明

尾部开关, 轻触切换档位。
高、中、低三个档位, 出厂默认最高亮档。开机3秒后记忆, 3秒内开关机换挡, 高中底三档循环。

电池更换

拧开筒头, 电池负极朝向开关方向依次放入两节电池, 拧紧筒头完成电池更换。



保养及注意事项

- 使用柔软干净的干布擦拭手电筒的表面, 使用干净的软布来清洁透镜的指纹与灰尘。
- 为达到最佳防水性能, 请定期检查防水O圈的完整性, 并请适量涂抹润滑脂于防水O圈上以延长其使用寿命。如O圈损坏, 请及时更换原厂O圈以确保您所使用之产品的优异防水性能。
- 请勿将手电筒的光线直接照射人类或动物的眼睛。
- 长时间不使用手电筒时, 请将电池从手电筒内部取出, 妥善存放。

使用及维护

- 手电在使用过程中, 手电表面温度在60℃以下属于正常情况, 请放心使用。
- 充电电池出厂时只有50%以下电量, 直接使用不能达到最高亮度和正常续航时间, 首次使用请将电池充满。
- 为达到最佳防水性能, 请定期检查防水O圈的完整性, 并请适量涂抹润滑脂于防水O圈上以延长其使用寿命。如O圈损坏, 请及时更换原厂O圈以确保您所使用之产品的优异防水性能。
- 请勿将手电筒的光线直接照射人类或动物的眼睛。
- 手电筒不用时, 请锁定开关, 避免误点亮。
- 长时间不使用手电筒时, 请将筒尾扭下 (切断电源), 并妥善存放于阴凉干燥处。

保修

- 15天保换期: 自售出之日起15天内, 在正常使用情况下, 出现产品质量问题, 客户可选择更换新品或维修服务, 要求更换时, 所换产品应为返修产品同型号同规格的新品; 如同型号同规格的产品停止生产时, 则调换不低于原产品性能的同品牌产品。
- 5年免费保修期: 自售出之日起5年内, 用户在正常使用情况下, 出现产品质量问题, 可享受免费维修服务。
- 终身有限保修: 超过5年免费保修期时间外, 提供有偿保修, 费用以实际更换材料费用为准, 不另收取人工费。



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