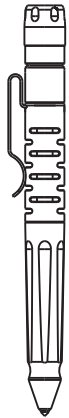


KLARUS®



TP20 Utility Rechargeable Tactical Pen Light

V2-2018.03.23

Specifications

- CREE XP-G3LED, 50,000 hours life.
- Modes: 2 light levels.

Mode		High	Low
ANSI(lumen(LM) 10180		130	8
Runtime(h) 10180		24min	5h12min
Beam intensity(cd)		217	20
Beam distance(m)		30	9
Impact resistance(m)		1.5	
Waterproof		IPX8(underwater 2 meters)	

- Working Voltage: 2.7V-4.2V.
- Compatible Batteries: 1 x 10180 Li-ion battery.
- Reflector: Lens.
- Switch Type: Rotary Switch.
- Dimension: (Head) 12mm (0.47") x (Body) 15mm(0.59") x (Length) 151mm(5.94").
- Weight: Titanium 46g(1.62oz) (with battery); Aluminum 33g (1.16oz) (with battery).
- Material: Titanium TC4 or Aluminum 6061-T6.
- Accessories Included: 2 x Spare O Ring, 1 x Micro-USB Cable, 1 x 10180 Li-ion Battery, 1 x Schmidt P950M, 1 x Key Ring.

Note: The above specifications are measured in accordance with the ANSI/NEMA F11 standard, using the KLARUS high performance 10180 Li-ion battery under laboratory condition. The measurement may change during actual use due to battery type, individual usage habits and environmental factors. Klarus is a member of PLATO, participating and helping to develop the ANSI/NEMA FL1 standard of measurement. Product testing data is in accordance with these internationally recognized scientific standards.

Operation

Mode switch: Tighten to turn on LOW mode, continue to tighten for High. Loosen to turn OFF.

Battery Charging

Unscrew the light head to reveal the Micro-USB charging port, connect the Micro-USB cable to begin charging. Red light indicates charging in progress and green light indicates charging is completed.

Battery Installation



Pen Refill Installation



Usage and Maintenance

- The flashlight's surface will increase in temperature during use, especially during periods of higher lumen output. The maximum safe operating surface temperature of the flashlight is 60°C/140°F.
- Please fully charge battery before initial use. Included battery is charged to less than 50% as a safety measure and will not power the flashlight at full output.
- To maintain waterproof condition, please lubricate the O-ring with silicone safe lubricant or oil and replace worn O-rings as needed.
- Do not shine light directly into eyes.
- For long term storage, remove the battery and store in a cool and dry location.

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 dealer with a quote. The customer can then decide whether to proceed with the repairs or not. Freight will be paid by dealer 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 serial 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



Facebook

KLARUS LIGHTING TECHNOLOGY CO., LIMITED

Address: 5/F, No.26 Building, Niulanqian Industrial Park, Longhua District, Shenzhen City, 518131, China.

Email: info@klaruslight.com

Phone: +86-755-27700110

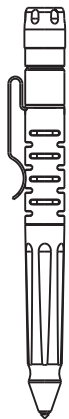
Website: www.klaruslight.com



Made in China



KLARUS®



TP20 多功能可充电战术笔灯

V2-2018.03.23

规格

- 采用美国进口CREE XP-G3 LED, 寿命长达50000小时。
- 模式: 2种亮度模式。

ANSI/NEMA FL1	高亮	低亮
亮度(LM) 10180电池	130	8
续航时间(h) 10180电池	24min	5h12min
光强度(cd)	217	20
射程(m)	30	9
耐跌落(m)	1.5	
防水等级	IPX8(水下2米)	

- 工作电压: 2.7V-4.2V。
- 电池: 1节10180锂离子电池。
- 反光杯: 透镜。
- 开关类型: 旋转开关。
- 尺寸: (头直径)12mm x (身直径)15mm x (长)151mm。
- 重量: 钛合金46克(含电池); 铝合金33克(含电池)。
- 材料: 钛合金或者航空铝合金6061-T6。
- 配件: 防水O圈 x 2, Micro-USB线 x 1, 10180锂电池 x 1, 施密特 P950M笔芯 x 1, 钥匙圈 x 1。

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, 所使用电池为高性能10180锂离子电池, 实际数据可能会随着不同电池或使用环境而产生影响。KLARUS是美国手电行业协(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。

使用操作

调档: 拧紧低亮, 继续拧紧高亮, 拧松关闭。

充电

拧松灯头, 露出Micro-USB充电口, 插入充电。红灯表示正在充电, 绿灯表示已充满。

电池安装



笔芯安装



使用及维护

- 灯具在使用过程中, 灯具表面温度在60°C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, 并请适量涂抹润滑硅脂于防水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。
- 请勿将灯具的光线直接照射人类或动物的眼睛。
- 长时间不使用灯具时, 请将电池取出, 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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淘宝购买

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