# VITECORI 奈特科尔

# 产品特性

- 远达 1400 米射程的可充电搜索灯 采用 CREE XHP35 HI D4 LED

- 采用CREEX/HP35 HI D4 LED 内建多加能 0.15D 显示理 内置温度控制功能,可能止电筒过热 自简单定金险澳功能的密能充电电路,充电便捷、安全 5 种系度和 3 种待禁功能可选 2 段远式天设计,一键控制多中功能(专利号:ZL201120062948.1) 开关按钮小局库程告介式,可以提示电池剩余电量(专利号:ZL201220057767.4) 加强型散热设计,提升手电筒散热能力

- 加強並統成权。其一十年间成本能力 如面懷顯的科学镜片 PDOT 數字精确优化技术制造的金属反光杯系统 航大级铝合金制造 军規二級程代表面处理 符合 IPX8 防水标准(水下 2 米)

### 体积

体状 TM38: 长度: 278mm 头部直径: 90mm 尾部直径: 50mm 重量: 1260.3g (含电池组) TM38 Lite: 长度:195mm 头部直径:90mm 尾部直径:50mm 重量:780g(不含电池)

### 配件

• \$配器,肩带,手绳,备用防水 O 圈,备用充电口胶寒

使用电池 TM38: NBP68 HD 高性能锂离子充电电池组:

	参数	数值
ſ	容量	98Wh ( 3400mAh×8 )
	电压	3.7V
	充电电流	2A ( 慢充 ) / 4A ( 快充 )
	充电接口	3.5mm 12V DC 插头 / 4.0mm 12V DC 插头

	尺寸规格	标称电压	是否可用
18650 锂电池	18650	iO 3.7V 是 (推荐使用并可进行充用	
IMR18650 电池 ( 凸头电池 )	IMR18650	3.6V	是 (推荐使用并可进行充电)
一次性锂金属电池	CR123	3V	不推荐使用 ( 不能进行充电 )
可充电锂离子电池	RCR123	3.7V	否 ( 不能使用且不能进行充电 )

<sup>\*</sup> 建议洗购 NITECORE 18650 由池配管体田

## 亮度 & 时间

### TM38:

FL1 STANDARD	极亮档 高亮档 1800 流明 800 流明		中亮档	低亮档	节能档	
311/2			400 流明	200 流明	50 流明	
O	*4 小时	11 小时	22 小时	40 小时	120 小时	
	1400 米(极亮档射程) 490000cd(极亮档光强)					
*						
√.	1米(防跌落高度)					
~₩~	IPX8,水下2米(防水等级)					

注:以上数据按照国际手电筒测量标准 ANSI/NEMA FL1 所述之测量方法,所使用电池为 NBP68 HD 高性能锂离子充电电池组测量,不同电池或使用环境可能会对以上数据产生影响。 4 极系档位数询问的为是有不理解而下的理论计算值。

## TM38 Lite ·

FL1 STANDARD	极亮档	高亮档	中亮档	低亮档	节能档			
311.5	1800 流明	800 流明	400 流明	200 流明	50 流明			
O	*2 小时	5 小时 30 分钟	11 小时	20 小时	60 小时			
	1400 米 ( 极亮档射程 )							
*	49000cd (极亮档光强 ) 1 米 (防跌落高度 )							
N.								
~ <b>J</b> ~	IPX8,水下2米(防水等级)							

建:以上数据按照国际手电筒测量标准 ANS/NEMA FL1 所述之测量方法,所使用电池为:4 节 Nitecore 18650 锂电池(3.7V 3400mA)测量,不同电池或使用环境可能会对比上数据了生影响。 4级系色位装的间分元度不可能偏沉下的现法计算机

# 使用电筒

**装入电池** TM38:请按示意图装上 NBP68 HD 高性能锂离子充电电池组:(如图)



TM38 Lite:请按下图所示,电池正极赖汀头方向裴入电池,裴入 4 节 18650 锂电池或 8 节 CR123 电池并扭紧简身。在紧急情况下,本产品使用 1-3 节 18650 锂电池或 2-6 节 CR123 电池中可进行工作,详见警告 1。



- 警告
  1. 由于减少使用电池数量会引起每个电池输出电流增大,从而引发潜在危险(如电池爆炸,锂电池过载保护等),或导致本产品不能输出最高亮度,因此请用户在使用本产品时,尽量避免减少电池数量。
  2. 请将电池按照正极钢灯头方向成入,否则将可能损坏电筒。
  3. 请劝混合使用不同电池同小文性电池。
  4. 请勿混合使用不同型等或品牌的电池。
  5. 请勿混合使用不同型等或品牌的电池。
  6. 本产品只支持凸头的 18650 锂电池。

# TM38/TM38 Lite 使用说明书

## 多功能 OLED 显示屏

- で有次数上电池組取电路后,位于灯头侧面的 OLED 显示解将显示"NITECORE" 2.5 秒,然后显示电池电压 4 秒(精确到 0.01V),随即进入特别模式。 当 TM38/TM38 Line 电次开启时,显示解将自动激活,并在显示第一次当前手电路信息(海卵值和岩位级别—电池电压—电池状态—操绕线路间)。 电电路内容温度)后自动关闭,如果需要再次了解手电路信息,可通过按显示解控制按钮流活显示屏,每按一次按钮,显示解将切换不同信息的显示。

### 可选模式

提示:本产品采用两段式电子开关(类似相机块门按钮),可根据用户按压开关的深浅程度进行不同的功能控制。 TM38/TM38 Lite 具有日用模式和搜索模式两个使用模式,在电筒关闭状态下,轻按开关可以进入日用模式;重按开关可以进入搜索模式。

1995) (Inc. Cat. 9年1月 | Inc. 1995) (Inc. 1995) (Inc.

## 亮度调节

- 了记文中012 · 在日用眼式下,每轻使一次开关,手电筒将按"节能挡"低亮档。中亮档、高亮档"顺序循环切换并记忆亮度;当轻按开关超过一秒,电筒将进入极亮档,用轻按开关即返回之前的亮度。 在得索模式下,每轻按一次开关,电筒亮度将在"高亮档"投亮档"间互相切换,此模式下没有记忆功能。 注:TM38/TM38 Lite 在极亮毛轴出状态下,内置温度控制功能,详情请参考"热量控制"一章。

特殊档位 (暴闪/SOS 功能/信标) 在TM36/TM38 Lite 升层的状态下,快速重换测次开关,电简将开启暴闪,如果需要选择更多的特殊档位,只需要轻换开关按钮,即可在 'SOS DME/信标/最闪' 顺序初烧,如果需要递址特殊档位,只需重按开关按钮 - 电简格组性特殊档位。 注:在特殊相位下,显示屏格长是显示启销特殊相位,如 "STROBE"最为、SOS (非效信号),BEACON(信标)"。

## 锁定及解锁

在TM38/TM38 Lite 开启的状态下,重接开关并保持超过一秒,电筒会关闭照明并进入锁定状态、在锁定状态下,电筒几乎不会消耗电池电量,且开关处于锁定状态以加止电筒息外开启,再次长投开关并保持超过一秒即可解除锁定状态。 注:

1. 在锁定状态下,每按一下开关或显示屏控制按钮,显示屏以"LOCK OUT"(锁定)提示用户手电筒被锁定。 2. 若电筒放置在背包内运输或者长时间储存,请把 TM38/TM38 Lite 筒身扭松以彻底切断电源,防止错误开启

不以力/1970
在 TM38/TM38 Lite 开启的状态下,重接开关并在一秒内放手,将关闭照明并进入待机状态、在待机状态下,电筒会消耗极少电量以维持电筒效率越工作。同时,位于开关按钮的电量提示灯会每两秒以停一次来提示用户手电的位置。
注:当手电损处子特机状态时,及下是元胛控制线型、显示屏格显示电压信息10分

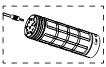
70-70 TM38/TM38 Lite 自帯智能充电功能。如图所示,将充电适配器一端连接筒身充电插孔,另一端插上室内取电插座即可以进行充电。





- 当TM38/TM38 Lite 处于正常养电状态时,位于开关按钮的蓝色电量提示打将每0.5 抄闪烁12提示用户,此时显示屏将显示 "Charging..."(正在序电)相电池当前电压;
   当格测到牙壳中工序(如电池损坏,反转电池),TM38/TM38 Lite 将自动停止充电,显示屏会显示 "ERROR"(错误),且蓝色电量提示打会快速闪烁提示用户;
   为电光规划,TM36/TM38 Lite 将自动停止充电,并长亮蓝色电量提示打提示用户,此时显示屏格显示 "Chg.Finished"(完成充电)

此外,TM38 的标配免电适配器也可单独对 NBP68 HD 电池组进行充电。如图所示,将充电适配器一端连接至电池组标准充电接口(2A 3.5mm),另一端插上室内隙电插座即可以进行充电。当 NBP68 HD 电池线处于充电状态时,电池组内蓝色指示灯神快速闪烁摄示用户: 5 NBP68 HD 电地组存取接近域的状态时(398),指示灯神极侧振示用户:当东珊瑚时,适色电量表示灯棒长振进环



- 当对 TM38 充电或对 NBP68 HD 高性能裡离子充电电池组进行充电时,充电时间约为 15 小时; 对 NBP68 HD 电池组进行充电时,也可选用快速充电适配器(可选配件)连接至电池组快速充电接口(4A,4.0mm)进行充电,其 所需的充电时间将配置一半,均5 A Jvd,

## 电量提示

- · 当手电筒开启,并且电池电量剩余将近一半时,位于开关按钮的蓝色电量指示灯将每两秒闪烁一次提示用户; · 当手电筒开启,并且电池电量将近移足时,位于开关按钮的蓝色电量提示灯将连续快速闪烁,电筒甚至会出现亮度变暗或者无法调光 的情况。此刻,应划电筒进行形成重要使响起。 注:电筒在节能档状态下,位于开关按钮的蓝色电量提示灯将不点亮以尽量节省电能,维持在紧急状态下的长时间续航。

・ TM38/TM38 Lite 的簡身温度全升高,可能会导致用户不适,所以我们不推荐用户长时间使用极条档位、TM38/ TM38 Lite 拥有温度控制功能,在手电筒温度达到 60 摂氏度时(人体最高来受温度),TM38/TM38 Lite 将自动降低输出功率以防止温 1970년 10년 197日 西西北京の7978年、11 デーショロ政立5300 版に改立「人下版の45年、20世 7 「1973年 1973년 1173년 1173년 1173년 1173년 1173년 1173년 1 建建・注音・信子単向处于高温状态下时,清勿将手电筒置入冷水(或任何液体)中降温。由于内外气压的差异,会产生约等于10米水深的水压 将可能导致于电局进水而提外。

# - **こい** - 使用软布清洁电筒的螺牙,并使用硅润滑油润滑螺牙。

## 保固

NTECORE" 产品拥有售后保固服务。在购买本产品的 15 天内,如果有任何质量问题均可向经销商要求免费更换。在购买本产品的 5 年 内享受免费保固服务。在超过 5 年免费保固期后,本产品享有终身有限度保固服务,如需要更换重要部件则需收取成本费用。

- 本保固规则不适用于以下情况:
  1. 人为破坏,拆解,改装本产品。
  2. 错误操作导致产品损坏(如反装电池等)。
  3. 电池漏液导致产品损坏。

如对奈特科尔产品有任何疑问,欢迎联系当地的代理商或发邮件到 4008869828@nitecore.cn

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# KEEP INNOVATING

# TM38/TM38 Lite **User Manual**

### **Features**

- The world's smallest LED rechargeable searchlight with a maximum throw of 1400 meters
  Utilizes a CREE XHP3S HI D4 LED
  Integrated multi-function OLED display
  Thermal protection circuit prevents overheating
  Intelligent charging circuit with security detection charges safely and rapidly
  5 brightness levels and 3 special modes selectable
  Innovative single button two-stage switch provides a user-friendly interface (Patented: ZL201120062948.1)
  Integrated power indicator in the switch displays remaining battery power (Patented: L201220057767.4)
  Optimal heat dissipation to improve overall performance
  Toughened ultra-clear mineral glass with anti-reflective coating
  Integrated "Prevision Digital Option Etchnology" provides extreme reflector performance
  Constructed from aerospace-grade aluminum alloy
  Hall military grade hard-anodized
  Waterproof in accordance with IPX8 (submersible to two meters)

### **Dimensions**

**TM38:** Length:278mm (10.94 ") Head diameter: 90mm (3.54 ") Tube diameter: 50mm (1.97 ") Weight: 1260.3g (44.46oz) (with battery pack)

### Accessories

quality sling, spare O-ring, spare rubber cover of charging port

## **Battery Options**

ormance Li-ion rechargeable battery pack

Specifications	Parameters		
Capacity	98Wh (3400mAh×8)		
Voltage	3.7V  2A (Trickle charge) / 4A (Rapid charge)		
Charging Current			
Charging Port	3.5mm 12V DC Adapter / 4.0mm 12V DC Adapter		

	TYPE	Nominal voltage	Compatibility
18650 Rechargeable Li-ion battery	18650	3.7V	Yes (Recommended and can be recharged)
IMR18650 battery (button top battery)	IMR18650	3.6V	Yes (Recommended and can be recharged)
Primary Lithium battery	CR123	3V	Yes (Not recommended and CANNOT be recharged)
Rechargeable Li-ion battery	RCR123	3.7V	NO

core 18650 are recommended to ensure complete compatibility

## **Brightness & Runtime**

FL1 STANDARD	DARD TURBO HIGH		MID	LOW	LOWER		
zur.	1800 LUMENS	1800 LUMENS 800 LUMENS		200 LUMENS	50 LUMENS		
O	*4h 11h		22h	40h	120h		
	1400m (Beam Distance)						
*	490000cd (Peak Beam intensity)						
V.	1m (Impact Resistant)						
~#~	IPX8, 2m (Waterproof AND Submersible)						

NOTE: The above data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1 using the Nitecore NBP68 HD battery pack under laboratory conditions. The data may vary during real-world use due to battery type, individual usage habits and environmental factors.

"Runtime for Turbo is calculated based on theoretical arithmetic.

IM36 Lite.								
FL1 STANDARD	TURBO	HIGH	MID	LOW	LOWER			
3115	1800 LUMENS	800 LUMENS	400 LUMENS	200 LUMENS	50 LUMENS			
()	*2h	5h30min	11h	20h	60h			
		1400m (Beam Distance) 490000cd (Peak Beam intensity)						
*								
s/.		1m (Impact Resistant)						
~~~	IPX8 2m (Waterproof AND Submersible)							

NOTE: The above data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1 using 4 Nitecore 18550 Li-ion batteries (3.7V 3400mAh) under laboratory conditions. The data may vary during real-world use due to battery type, individual usage habits and environmental factors.

\*Runtime for Turbo is calculated based on theoretical arithmetic.

## **Operating Instructions**

Battery installation TM38: Screw on the NBP68 HD battery pack as illustrated



TM38 Lite: Install 4 x 18650 Li-ion or 8 x CR123 batteries with the pc tube. In emergency situations, one to three 18650 Li-ion batteries or itive ends (+) pointing toward the light head and tighten the wo to six CR123 batteries may be used. Please see note 1 in the

WARNING

1. Using less than 4 x 18650 or 8 x CR123 batteries might trigger the overload protection circuit in Li-ion batteries, which may lead to explosion or turbo mode malfunctioning. Nitecore recommends this feature is used with caution and only when necessary.

2. Insert batteries with the positive (+) ends pointing toward the light head.

3. Do not mix rechargeable and non-rechargeable batteries.

4. Do not mix batteries of different types/brands.

5. Do not mix batteries of different charge levels.

6. Please ensure that all 18550 batteries used in the TM38 Lite have a button top configuration.

## **OLED Display**

After tightening the bettery pack or loading batteries, "NITECORE" will be displayed on the OLED screen for 2.5 seconds followed by a 4-second display of battery voltage (to necessed 0.01V) after which the TMSQ1/TMSQ lite will enter standby mode. When the TMSQ1/TMSQ lite is turned on, the OLED display will activate automatically and show output lumen, brightness level, battery voltage, battery stalks, remaining nurtime and temperature. After displaying these readings, the OLED display will be off automatically. To reactivate the OLED, simply press the display switch. To cycle through the information, press the display button repeatedly.

### **Mode Selection**

NOTE: The TM38/TM38 Lite has two modes: Daily Mode and Search Mode. These modes can be selected by the 2-stage switch according to how hard the switch is pressed. A halfway press will activate daily mode, and a full press will activate Search Mode. Plerefer to instructions below.

An according to how hard the switch is pressed. A halfway press will activate oaily flucue, and a fair press. An according to how hard the switch is pressed. A halfway press will activate oaily flucue; and the switch according to how hard the switch and sway and release within one second to enter this mode with constant-on illumination. Alternatively press and hold the switch halfway for more than one second to activate momentary illumination with the previously used daily mode brightness.

Search Mode: With the light turned off, press the switch all the way down and release within one second to enter this mode with constant-on illumination. Alternatively, press and hold the switch all the way down for more than one second to activate momentary illumination with max brightness.

### **Brightness Selection**

- In daily mode, press the switch halfway repeatedly to cycle through brightness levels of lower, low, medium or high. Alternatively, press and hold the switch halfway for more than one second to enter turbo mode directly. A second halfway press will resume the brightness level last used. The selected brightness level will be memorized when the light is turned off.
   In search mode, press the switch halfway to switch between high and turbo mode. This mode does not have memory effect.
   NOTE: in turbo mode, the thermal protection will activate. Please refer to the "Thermal Protection" section for details.

## Special Modes (Strobe / SOS / Location Beacon)

When the flashlight is on, press the switch all the way down twice in quick succession to access strobe mode. When in strobe mode, press the switch halfway repeatedly to cycle through SOS, location beacon and strobe modes. To exit special modes (and enter standby mode), simply press the switch all the way down and release.

NOTE: When in any of the special modes, the OLED display will remain on displaying the specific mode being used.

When the flashlight is on, press and hold the switch all the way down for more than one second until the flashlight is switched off and enters lockout mode. Lockout mode consumes almost no battery power and prevents accidental activation of the flashlight. To exit lockout mode, simply press and hold the switch all the way down for more than one second again.

NOTE:

NOTE:

1. In lockout mode, the OLED display will show "LOCK OUT" as a reminder when the switch or the display button is pressed.

2. When the TMSR/TMSB Lite is kept in a backpack or left unused for extended periods, Nitecore recommends users loosen the head to cut of power, thus sawing battery power and preventing accidental actuation of the fishight.

## Switch off/Standby mode

When the flashlight is on, press the switch all the way down and release within one second to enter standby mode. In this mode, the light will consume small amounts of power to maintain the settings in the MCU (micro control unit) while appears to be turned off. When in standby mode the power indicator light will blink once every two seconds to indicate the location of the light. NOTE: When in standby mode, a single press of the OLED display button will activate the OLED and display battery voltage for 10 seconds.

## Charging TM38/TM38 Lite



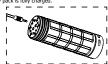


- Under normal charging conditions, the on/off switch's blue indicator light will blink twice every second with the OLED screen displaying "Charging..." and battery voltage.
   If a problem is detected during charging (e.g. faulty or incorrectly inserted batteries), the flashlight will stop charging automatically. The blue indicator will blink rapidly and the OLED display will show the word "ERROR" to notify users.

  When charging is completed, the flashlight will stop charging automatically with the blue indicator remaining on and "Chg. Finished" along with battery voltage being displayed on the OLED screen.

  NOTE: It takes TM38 Lite about 7 hours to fully charge four 18650 Li-ion batteries (3.7V 3400mAh).

The TM38's NBP68 HD battery pack can also be recharged independently with a Nitecore Adapter. As shown, plug one end of the adapter to the battery pack charging port (2A, 3.5mm), and plug the other end to an outlet. The integrated blue charging indicator the NBP68 HD battery pack will blink rapidly when the battery pack is being recharged, or blink slowly when battery power reaches 98%, or illuminate steadily when the battery pack is fully charged.



NOTE:

1. Charging the TM38 or the NBP68 HD battery pack directly will require charging time of approximately 15 hours.

2. Charging time can be reduced to 8 hours if the NBP68 HD battery pack is recharged via the rapid charging port (4A, 4.0mm) using an optional 2A adapter.

## **Power Tips**

With the light switched on, the power indicator will blink once every two seconds when power level drops to 50%.
 With the light switched on, the power indicator will blink rapidly when power level is low. Batteries/battery pack should be replaced or recharged when any of the following occurs: The power indicator blinks rapidly, output appears to be dim or the flashlight becomes

unresponsive.

NOTE: When the light is being used in lower mode, the blue power indicator will be off to conserve power

## Thermal Protection

Extended operation in turbo mode will cause the temperature of TM38/TM38 Lite to continually rise, making it too scalding to hold. Thus, Nitecore does not recommend using the TM38/TM38 Lite in turbo doe for extended periods. Equipped with an integrated thermal protection circuit, the TM38/TM38 Lite TM38/TM38 Lite in turbo doe to octive to represent oversiting once temperature has

Treached 60 degree Celsius.

Precaution: Do not attempt to cool a heated TM38/TM38 Like by submerging it in liquid. This may cause irreparable damage to the TM38/TM38 Like due to air pressure difference inside and outside of the tube.

## Maintenance

should be wined with a clean cloth followed by a thin coating of silicon-based lubricant.

## **Warranty Service**

All NITECORE® products are warranted for quality. DOA/defective products can be exchanged for replacement through a local distributor/dealer within the 15 days of purchase.

After 15 days, all defective / malfunctioning NITECORE® products will be repaired free of charge for a period of 60 months from the date of purchase. After 60 months, a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.

The warranty is nullified in all of the following situations:

1. The product(s) is/are broken down, reconstructed and/or modified by unauthorized parties.

2. The product(s) is/are damaged through improper use (i.e. reverse polarity installation).

3. The product(s) is/are damaged by leakage of batteries.

7. The product(s) is/are damaged by leakage of batteries.

7. The thic latest information on NITECORE's products and services, please contact your national NITECORE's distributor or send an email for the latest information on NITECORE's distributor or send an email for the latest information on NITECORE's products and services, please contact your national NITECORE's distributor or send an email for the latest information on NITECORE's distributor or send an email for the latest information of NITECORE's distributor or send an email for the NITECORE's distributor or send an emai

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