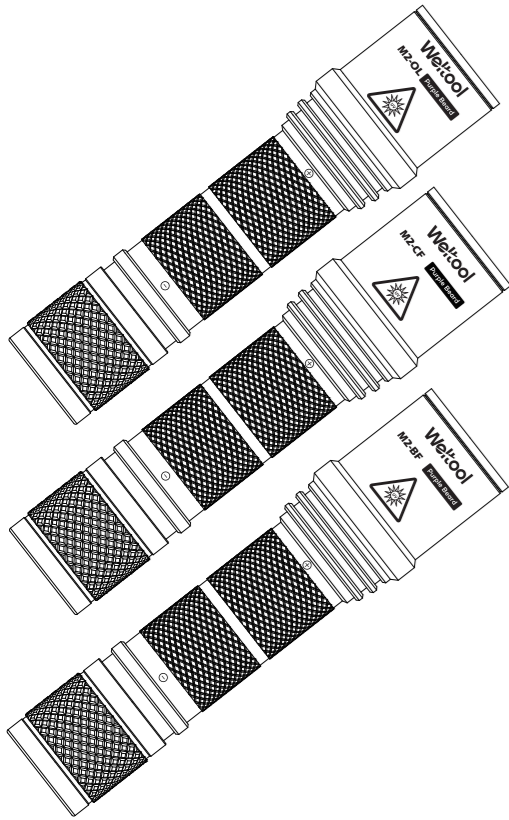


# Weltool®

## 卫途

M2 “紫鬃伯” UV紫外线365nm专业手电筒



### 产品描述:

M2紫外线手电也叫做黑光灯，采用高功率纯正365nm波长的UV-A紫外线LED光源，LED辐射通量可达1800mW。手电配有可拆卸不锈钢抱夹，使用一节可充电锂电池，体积小巧，携带方便。因为人眼可见光波长范围为400-700nm，而M2手电筒主波长为365nm，可见光少，所以M2的灯光看着并不“明亮”，它不是照明灯！正因如此，说明它是更纯净365nm波长，使用效果优于其他波长（380-400nm）的紫外线。M2“紫鬃伯”是一个专业级的紫外线检测手电筒，更多的应用于专业领域：

UV 固化：很多固化粘剂指定使用365nm波长紫外灯进行快速固化，M2紫外手电也可应用于油墨固化行业，比如印刷、油画、木质乐器加工。

刑侦调查取证：M2可通过含有蛋白质在UV照射下发出发光的特性检测到现场遗留体液、指纹、纤维以及对相关人员的咬痕、淤伤分析，并可以对相关证件、信用卡、纸币进行真伪及更改识别，通过M2紫外手电可发现化学可燃物的滴漏物用于纵火调查、通过对车辆识别号码标签检查对汽车盗窃取证，还可以对汽车事故分析调查。

无损探伤检测：M2体积小巧，特别适合船舶、压力容器、风机叶片等狭小空间的特种设备现场受光渗透检测、荧光磁粉检测。

荧光检测：通过M2黑光灯照射冷却系统中乙二醇的荧光反应，可以对汽车散热器检查泄漏情况，也可以通过添加荧光剂对空调制冷剂进行检测。发动机润滑油泄漏和石油管道泄漏检测漏点同样可以。

矿石勘探：很多矿石肉眼无法快速辨识，但在M2紫外手电照射下呈现各种颜色，可快速查找。同样适用于甄别宝石、琥珀和玉石、文物、古董，发现造假及胶水的痕迹。

卫生清洁：制药企业的核黄素验证，公共场所的人体液及其他组织生物污染物检查，油污清洗，仓库里通过老鼠等啮齿动物的尿液追查查找鼠迹。

家庭生活：宠物便溺查找，厨房及卫生间的油污或污染物查找，含有荧光剂卫生用品及衣物、化妆品、纸巾检查。

户外活动：蝎子的外壳在M2紫外手电照射下会发出荧光，即使在黑暗处也容易发现它。很多蘑菇及花朵、水果、种子或者部分昆虫、蜜蜂、小螃蟹在M2的照射下呈现的效果比夜间或者日光下更神奇。

M2系列有三个型号可选：M2-OL(匀光版),M2-CF（聚光高辐射版）,M2-BF（聚光高纯净版）,无论你是执法人员、机械师、工程师、维修人员或者是工人、仓库管理员、户外爱好者、实验室研究人员，M2“紫鬃伯”都可以成为你的好帮手！

### M2-OL（匀光版）“紫鬃伯” UV紫外线365nm专业手电筒

### 产品特点:

- 外壳材质：航空铝材，表面阳极氧化处理
- 反光系统：光学玻璃透镜，匀光，适合近距离使用
- 光源：一颗大功率UV-A LED，峰值波长365nm，连续点亮寿命约1000小时
- 输出：

使用Weltool UB18-35可充电锂离子电池测试：	低辐射通量档	高辐射通量档
LED辐射通量	680mW	2060mW
光谱辐射度38cm(15英寸)	350μW/cm²	1100μW/cm²
38cm(15英寸)距离照射面积(圆)直径	36cm	
38cm(15英寸)距离中心照射光斑直径	36cm	
可见光照度@38cm(15英寸)距离	≤ 6Lux	≤ 19Lux
续航时间 (h) 辐射度截止至 10%	10小时25分钟	4小时20分钟

- 电池：使用1节可充电18650锂离子电池（出厂不包含电池）
- 开关：尾部按钮开关，50，000次按压寿命
- 即开型，不需预热，轻按开关即亮，减少为灯泡预热所需的时间。
- 两个亮度档位可调，适合不同使用用途
- 防反接保护
- 电池过放保护
- 电池低电量提醒功能
- 恒流电路，无频闪、无噪音
- 紫色氧化处理的铝合金材质镜片保护压圈
- 筒身防滚设计
- 通过1米耐摔测试
- O圈防水，防护等级可达IP67
- 每只手电都有独有的序列号
- 尺寸：（头部直径）27.5mm，（筒身直径）23mm，（长度）123mm
- 重量：77.5±0.5克（不含电池）
- 附送：防水圈

### M2-CF（聚光高辐射版）“紫鬃伯” UV紫外线365nm专业手电筒

### 产品特点:

- 外壳材质：航空铝材，表面阳极氧化处理
- 反光系统：铝合金高反射反光杯,适合远距使用
- 光源：一颗大功率UV-A LED，峰值波长365nm，连续点亮寿命约1000小时
- 输出：

使用Weltool UB18-35可充电锂离子电池测试：	低辐射通量档	高辐射通量档
LED辐射通量	630mW	1800mW
光谱辐射度38cm(15英寸)	6800μW/cm²	18200μW/cm²
38cm(15英寸)距离照射面积(圆)直径	20cm	
38cm(15英寸)距离中心照射光斑直径	6cm	
可见光照度@38cm(15英寸)距离	≤ 64Lux	≤ 167Lux
续航时间 (h) 辐射度截止至 10%	10小时25分钟	4小时20分钟

- 电池：使用1节可充电18650锂离子电池（出厂不包含电池）
- 开关：尾部按钮开关，50，000次按压寿命
- 即开型，不需预热，轻按开关即亮，减少为灯泡预热所需的时间。
- 两个亮度档位可调，适合不同使用用途
- 防反接保护
- 电池过放保护
- 电池低电量提醒功能
- 恒流电路，无频闪、无噪音
- 高通透钢化玻璃镜片，光谱辐射度更高
- 紫色氧化处理的铝合金材质镜片保护压圈
- 筒身防滚设计
- 通过1米耐摔测试
- O圈防水，防护等级可达IP67
- 每只手电都有独有的序列号
- 尺寸：（头部直径）27.5mm，（筒身直径）23mm，（长度）135mm
- 重量：80.5±0.5克（不含电池）
- 附送：防水圈

### M2-BF（聚光高纯净版）“紫鬃伯” UV紫外线365nm专业手电筒

### 产品特点:

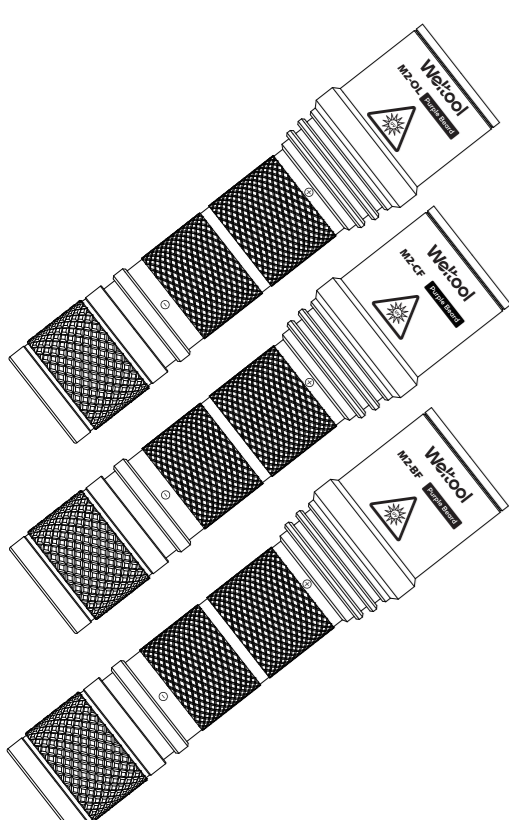
- 外壳材质：航空铝材，表面阳极氧化处理
- 反光系统：铝合金高反射反光杯，适合远距使用
- 光源：一颗大功率UV-A LED，峰值波长365nm，连续点亮寿命约1000小时
- 输出：

使用Weltool UB18-35可充电锂离子电池测试：	低辐射通量档	高辐射通量档
LED辐射通量	630mW	1800mW
光谱辐射度38cm(15英寸)	5900μW/cm²	15500μW/cm²
38cm(15英寸)距离照射面积(圆)直径	20cm	
38cm(15英寸)距离中心照射光斑直径	6cm	
可见光照度@38cm(15英寸)距离	≤ 13Lux	≤ 43Lux
续航时间 (h) 辐射度截止至 10%	10小时25分钟	4小时20分钟

- 电池：使用1节可充电18650锂离子电池（出厂不包含电池）
- 开关：尾部按钮开关，50，000次按压寿命
- 即开型，不需预热，轻按开关即亮，减少为灯泡预热所需的时间。
- 两个亮度档位可调，适合不同使用用途
- 防反接保护
- 电池过放保护
- 电池低电量提醒功能
- 恒流电路，无频闪、无噪音
- 黑色滤光玻璃镜片，有效过滤365nm波长以外的可见光，可见光减少，365nm波长紫外光出光更纯净
- 紫色氧化处理的铝合金材质镜片保护压圈
- 筒身防滚设计
- 通过1米耐摔测试
- O圈防水，防护等级可达IP67
- 每只手电都有独有的序列号
- 尺寸：（头部直径）27.5mm，（筒身直径）23mm，（长度）135mm
- 重量：80.5±0.5克（不含电池）
- 附送：防水圈

# Weltool®

M2 “Purple Beard” UV 365nm Professional Flashlight



### Product Introduction:

M2 UV flashlight is also called black light, adopts high efficiency pure 365nm UV-A LED with the LED radiation flux of 1800mW. The flashlight body is compact with a steel clip included as an accessory, powered by 1 piece of li-ion battery, compact and portable. The visible wavelength range to human eye is 400-700 nm, while the dominant wavelength of the M2 flashlight is 365 nm with less visible light, so the M2 is not "bright" in eyes and it's not designed for use of illumination. From which it proves that it's pure 365 nm wavelength with a better performance than the ultraviolet light of other wavelengths (380-400 nm). M2 "Purple Beard" is a professional-grade UV detection flashlight, which is more suitable for professional fields:

UV curing：Some curable adhesives specify the 365nm UV for rapid curing，M2 UV flashlight can also be applied to ink curing field, such as printing, oil painting and wood instrument processing.

Forensic investigation & evidence collection: Proteinaceous materials emit fluorescence when illuminated by UV light. So M2 can be used to check the body fluid, blood, fingerprint, fiber and also to analyze the bite mark and bruise. UV light usually is used for detection of fraudulent documents such as ID card, visa, passport, credit cards or banknotes. The UV light can be used for arson investigation though the spattering of chemical combustibles and user for car theft forensics by identification of car ID label, and also for vehicle accident analysis.

Non Destructive Testing (NDT): M2 is a compact flashlight especially suitable for on-site fluorescence penetrant testing and fluorescent magnetic particle inspection of special equipment in ships, pressure vessels, draught fan blades and other narrow spaces.

Leaks detecting: By the fluorescence reaction of ethylene glycol in the cooling system, M2 black light can be used to check the leaks of the car radiator and the air-conditioning refrigerant by adding a fluorescent agent. And it works on detecting engine leaks and oil pipeline leaks.

Ore exploration: Some kinds of ore cannot be quickly identified by the naked eye, but they present various colors under UV beam and can be quickly noticed. It also applies to screening of gems, amber and jade, artifacts, antiques, and discovering traces of fraud and glue.

Hygiene: Riboflavin validation in pharmaceutical companies, inspection of human body fluids and other tissues pollutants in public places, cleaning of oil stain, and the presence of traces of urine from rodents such as rats in the warehouse.

Home: Find pet defecations, oil or contaminant in kitchen and bathroom, check sanitary products, clothing, cosmetics, paper towels with fluorescer.

Outdoor activities: The outer shell of the scorpion glows under the M2 UV flashlight's beam, making it easy to find even in the dark. Many mushrooms and flowers, fruits, seeds or some insects, bees, and small crabs are more magical under the illumination of M2 than at night or in daylight.

M2 series have 3 models: M2-OL (Even-beam), M2-CF (Focused high radiation beam), and M2-BF (Focused pure beam), no matter you are a law enforcement officer, mechanic, engineer, maintenance person or workman, warehouse manager, outdoor enthusiast, laboratory researcher, M2 "Purple Beard" can be a good helper!

### M2-OL (Even-beam) "Purple Beard" UV 365nm Professional Flashlight

### Features:

- Case Material: Aerospace Aluminum Alloy construction; Black anodized finish
- Reflector: Optical glass lens, even-beam, fits for close-up usage
- Emitter: High efficiency UV-A LED, peak wavelength of 365nm, continuous lifetime of about 1000 hours
- Output:

Fested with Weltool UB18-35 Rechargeable Lithium Battery	Low radiant flux mode	High radiant flux mode
LED Radiant flux	680mW	2060mW
Spectral radiosity 38cm(15in)	350μW/cm²	1100μW/cm²
Irradiated area (round) diameter of distance of 38cm(15in)	36cm	
Central beam (round) diameter of distance of 38cm(15in)	36cm	
Visible spectrum illuminance @ distance of 38cm(15in)	≤ 6Lux	≤ 19Lux
Runtime(h): Until radiosity falls to 10%	10h 25min	4h 20min

- Battery: 1 x 18650 Li-ion battery (not included)
- Switch：Tail cap switch (up to 50,000 presses)
- No need preheat, press to switch on, reduce the preheat time.
- 2 adjustable modes, suitable for different usages.
- Reverse Polarity Protection
- Over-Discharge Protection
- Low Voltage Warning
- Fully regulated output, no PWM, no circuit noise
- High light transmission tempered glass lens
- Purple oxidized aluminum alloy protection bezel
- Anti-slip, anti-roll design
- 1 meter impact resistance
- O-ring sealed, IP67 water resistance rating
- Individually serialized
- Dimensions: (Bezel Dia.) 27.5mm x (Body Dia.) 23mm x (Length)123mm
- Weight: 77.5±0.5 grams (w/o battery)
- Accessories (included): O-ring

### M2-CF (Focused high radiation beam) "Purple Beard" UV 365nm Professional Flashlight

### Features:

- Case Material: Aerospace Aluminum Alloy construction; Black anodized finish
- Reflector: High reflection reflector of aluminium alloy, fits for long-range usage
- Emitter: High efficiency UV-A LED, peak wavelength of 365nm, continuous lifetime of about 1000 hours
- Output:

Fested with Weltool UB18-35 Rechargeable Lithium Battery	Low radiant flux mode	High radiant flux mode
LED Radiant flux	630mW	1800mW
Spectral radiosity 38cm(15in)	6800μW/cm²	18200μW/cm²
Irradiated area (round) diameter of distance of 38cm(15in)	20cm	
Central beam (round) diameter of distance of 38cm(15in)	6cm	
Visible spectrum illuminance @ distance of 38cm(15in)	≤ 64Lux	≤ 167Lux
Runtime(h): Until radiosity falls to 10%	10h 25min	4h 20min

- Battery: 1 x 18650 Li-ion battery (not included)
- Switch：Tail cap switch (up to 50,000 presses)
- No need preheat, press to switch on, reduce the preheat time.
- 2 adjustable modes, suitable for different usages.
- Reverse Polarity Protection
- Over-Discharge Protection
- Low Voltage Warning
- Fully regulated output, no PWM, no circuit noise
- High light transmission tempered glass lens for high spectral radiosity
- Purple oxidized aluminum alloy protection bezel
- Anti-slip, anti-roll design
- 1 meter impact resistance
- O-ring sealed, IP67 water resistance rating
- Individually serialized
- Dimensions: (Bezel Dia.) 27.5mm x (Body Dia.) 23mm x (Length)135mm
- Weight: 80.5±0.5 grams (w/o battery)
- Accessories (included): O-ring

### M2-BF (Focused pure beam) "Purple Beard" UV 365nm Professional Flashlight

### Features:

- Case Material: Aerospace Aluminum Alloy construction; Black anodized finish
- Reflector: High reflection reflector of aluminium alloy, fits for long-range usage
- Emitter: High efficiency UV-A LED, peak wavelength of 365nm, continuous lifetime of about 1000 hours
- Output:

Fested with Weltool UB18-35 Rechargeable Lithium Battery	Low radiant flux mode	High radiant flux mode
LED Radiant flux	630mW	1800mW
Spectral radiosity 38cm(15in)	5900μW/cm²	15500μW/cm²
Irradiated area (round) diameter of distance of 38cm(15in)	20cm	
Central beam (round) diameter of distance of 38cm(15in)	6cm	
Visible spectrum illuminance @ distance of 38cm(15in)	≤ 13Lux	≤ 43Lux
Runtime(h): Until radiosity falls to 10%	10h 25min	4h 20min

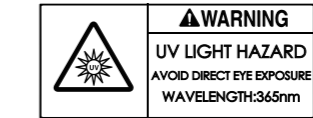
- Battery: 1 x 18650 Li-ion battery (not included)
- Switch：Tail cap switch (up to 50,000 presses)
- No need preheat, press to switch on, reduce the preheat time.
- 2 adjustable modes, suitable for different usages.
- Reverse Polarity Protection
- Over-Discharge Protection
- Low Voltage Warning
- Fully regulated output, no PWM, no circuit noise
- Black filter glass lens, effectively filtrate the visible light beyond 365nm for purer UV beam.
- Purple oxidized aluminum alloy protection bezel
- Anti-slip, anti-roll design
- 1 meter impact resistance
- O-ring sealed, IP67 water resistance rating
- Individually serialized
- Dimensions: (Bezel Dia.) 27.5mm x (Body Dia.) 23mm x (Length)135mm
- Weight: 80.5±0.5 grams (w/o battery)
- Accessories (included): O-ring

### 操作说明:

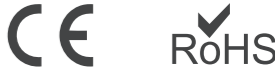
- 首先逆时针拧开手电筒尾盖，并使用电量充足的优质18650可充电锂离子电池，电池正极朝向灯头方向装入，顺时针拧紧尾盖。
- 手电筒具有正负极反接保护功能，即使您电池安装方向错误，手电也不会损坏，只是无法点亮，此时请及时检查电池是否反接。
- 安装电池后，半按一次尾部开关按钮，即可点亮手电筒，松开开关即灭。每次开启默认低亮档位。
- 半按开启手电后，松开再马上轻按尾部开关，亮度切换为高亮，继续松开并轻按返回低亮。按此方式反复操作，亮度档位即为循环转换。在任何档位用力按下开关，会有“咔哒”声响，锁定当前亮度常亮；再次用力按下，开关有“咔哒”声响，手电关闭。
- 使用过程中，当电池电量下降，手电筒灯光有2次闪烁提示，即使您专注于工作，也会看到灯光提示。当第一次闪烁请及时更换电池。
- 第一次闪烁提示后，手电还可以工作几分钟，为您留出更换电池时间。
- 几秒钟后手电最后一次闪烁提醒，闪烁后，手电随即自动停止工作。

### 警告说明:

本产品适合专业人士使用，不要使用M2手电筒照射人体，严禁照射眼睛及长时间照射皮肤，也不要照射可以反光的平面物体。请佩戴专业的紫外线防护眼镜使用，并远离儿童存放！



### 相关认证:



### 使用提示:

- 请勿自行拆卸部件，否则将会导致保修失效并可能损坏手电。
- 卫途“全身导热”技术会让手电内部热量及时导出，因此手电使用中发热是正常现象。
- 长期使用后，手电的防水圈可能会老化。请您及时更换防水圈以维持手电的防水性能。
- 长期使用，手电尾部螺栓的润滑脂会减少，为了保持螺纹顺滑，请及时使用专业润滑脂来润滑螺纹。
- 请及时清洁手电的导电接触面以保证手电的正常工作，尤其是当手电出现异常的闪烁或者无法点亮的时候，有可能是接触面有污渍导致，尝试用酒精棉签清洁导电接触面。
- 由于电池会自放电，所以建议您在长期不使用手电时，将电池取出。
- 此手电防水效果优良，但不可作为专业潜水手电使用。
- 请不要在手电点亮时直接照射眼睛，以免造成视力损伤，并远离儿童。

### 大连光明和电贸易有限公司

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### Directions:

- Open the tail cap by twisting counter-clockwise, insert a charged quality 18650 lithium battery with the positive terminal towards the bezel, and tighten the tail cap by turning clockwise.

- The flashlight has Reverse Polarity Protection, the light will not be damaged by batteries inserted in the wrong orientation, but it will not turn on. If this occurs, please check the battery orientation.

- Fully press the tail switch until "click" is heard to turn on the flashlight. Each time the flashlight is turned on, the default setting is "LOW".

- When the flashlight is off half press the tail switch to cycle between LOW and HIGH output. Fully press the tail switch until "click" is heard to turn off the flashlight.

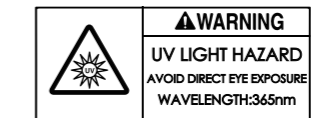
- When the battery voltage is too low, the flashlight will flash 2 time as a warning. When the flash is given, please change to a new battery.

- After the first flash warning, the flashlight will operate for several minutes as a safety measure.

- After several minutes, the second flash warning will be given. After this warning, the flashlight will shut off automatically.

### Warning:

This product is suitable for professional use. Do not use M2 flashlight to illuminate the human body. Do not illuminate eyes or expose to skin for a long time. Do not illuminate the reflective objects that can be reflected, such as mirror or glass. Please wear professional UV protective glasses and keep away from children!



### Related Certification:



### Notice:

- Unauthorized disassembly may damage the flashlight and void the warranty.
- Weltool "Total Heat Dissipation" technology will dissipate the internal heat of the light during operation, it is normal to feel the flashlight body temperature rise.
- Please check and replace the O-ring regularly to maintain the waterproof rating.
- Please check and lubricate the threads regularly with professional lubricant.
- Clean the contact surfaces regularly to keep the flashlight normal operation. If irregular strobe or failure to turn-on occurs, the contact surfaces may be dirty and requires cleaning by using alcohol cotton swabs.
- Remove the battery from the flashlight during long term storage.
- This flashlight is not intended to be used as a diving light.
- Do not aim the flashlight directly at eyes. Keep out of the reach of children.

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