

UniqueFire UF-K21

UniqueFire K21 Mini LED Flashlight User Manual

Model: UF-K21 | Brand: UniqueFire

1. PRODUCT OVERVIEW

The UniqueFire K21 Mini LED Flashlight is a portable, high-lumen torch designed for various applications, from daily use to emergency situations and outdoor activities. It features a powerful LED chip, a unique rotary switch for mode selection, and a magnetic tail cap for hands-free operation. Constructed from durable aircraft aluminum alloy, it is built to withstand challenging environments.



Figure 1: The compact UniqueFire K21 Mini LED Flashlight, designed for portability.

- **Small and Bright:** Equipped with an upgraded LED chip, providing 1200 lumens for bright, large-area illumination up to 200 meters.
- **Rotary On/Off 5 Modes:** Features a unique rotary switch for power and mode selection (High, Medium, Low, SOS, Strobe).
- **Mini Portable:** Designed for easy carrying in pockets or backpacks, with a built-in clip for attachment to clothing.

- **High Quality Construction:** Made from aircraft aluminum alloy for durability, with a magnetic tail cap for hands-free use and an O-shaped silicone ring for water and moisture resistance.
- **Wide Applications:** Suitable for working, repairing, camping, emergency survival, and various outdoor sports.

2. SETUP

The UniqueFire K21 flashlight requires a 16340 lithium-ion battery (not included). Follow these steps for initial setup:

1. **Unscrew the Tail Cap:** Gently twist the tail cap counter-clockwise to remove it.
2. **Insert Battery:** Insert one 16340 lithium-ion battery with the positive (+) end facing towards the flashlight head (LED side).
3. **Secure Tail Cap:** Screw the tail cap back on clockwise until it is finger-tight. Ensure it is fully tightened to establish electrical contact and maintain water resistance.



Figure 2: Components of the flashlight, illustrating where the battery is inserted.

3. OPERATING INSTRUCTIONS

The UniqueFire K21 features a rotary switch for intuitive operation and mode selection.

- **Turning On/Off:** To turn the flashlight on, twist the head of the flashlight clockwise until the light illuminates. To turn it off, twist the head counter-clockwise until the light extinguishes.
- **Changing Modes:** Once the flashlight is on, quickly twist the head counter-clockwise slightly and then clockwise again to cycle through the modes. The modes will cycle in the following order: High > Medium > Low > SOS > Strobe.
- **Mode Memory:** The flashlight does not have a mode memory function; it will always start in High mode when turned on.
- **Magnetic Tail Cap:** The integrated magnetic tail cap allows the flashlight to be securely attached to metallic surfaces for hands-free illumination.



Figure 3: Rotary switch operation for power and mode cycling.



Figure 4: Demonstrating the magnetic tail cap for hands-free use.

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Video 1: A detailed demonstration of the UniqueFire K21's operation, including the rotary switch and various light modes. This video provides a practical "experience sharing" of the flashlight's features and brightness in different environments, including outdoor night use and the strobe function.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your UniqueFire K21 flashlight.

- **Cleaning:** Wipe the flashlight body with a clean, soft cloth. For the lens, use a lens cleaning cloth to avoid scratches. Do not use abrasive cleaners.
- **Lubrication:** Periodically apply a thin layer of silicone grease to the O-rings and screw threads to maintain water resistance and smooth operation.
- **Battery Care:** Remove the battery if the flashlight will not be used for an extended period to prevent battery leakage and damage. Store batteries in a cool, dry place.
- **Storage:** Store the flashlight in a dry environment, away from extreme temperatures and direct sunlight.

WATER PROOF

Suitable for any weather



Figure 5: The flashlight's waterproof design, suitable for various weather conditions.

SHARK FIN COOLING SYSTEM

EFFECTIVELY PROTECT THE OPERATION OF THE CHIP,

Enhanced service life



Figure 6: The "Shark Fin Cooling System" designed to protect the LED chip and enhance service life.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery not inserted or incorrectly oriented; battery depleted; tail cap loose.	Ensure battery is inserted correctly with positive (+) end towards the head. Replace or recharge battery. Tighten tail cap fully.
Light output is dim or flickers.	Low battery power; dirty contacts; loose connections.	Replace or recharge battery. Clean battery contacts and flashlight threads. Ensure all parts are securely tightened.
Cannot cycle through modes.	Rotary switch not operated correctly.	Ensure quick, slight twists for mode changes. Refer to "Operating Instructions" section.
Flashlight gets hot during prolonged use.	Normal operation for high-lumen flashlights.	This is normal. The "Shark Fin Cooling System" helps dissipate heat. Reduce brightness mode if excessive heat is a concern.

6. SPECIFICATIONS

Feature	Detail
Model	UF-K21
Light Source Type	LED
Brightness	1200 Lumens (High Mode)
Power Source	Battery Powered (16340 Lithium, not included)
Material	Aircraft Aluminum Alloy
Modes	High, Medium, Low, SOS, Strobe
Special Features	Portable, Sturdy, Magnetic Tail Cap, Waterproof (IP65)
Product Dimensions	6"D x 2"W x 2"H (approx. 73mm length, 26mm caliber, 22mm tail)
Item Weight	1.44 ounces
Water Resistance Level	Waterproof



Figure 7: Detailed dimensions and weight for the flashlight.

7. WARRANTY AND SUPPORT

UniqueFire products are manufactured to high-quality standards. For warranty information, technical support, or any inquiries regarding your UniqueFire K21 flashlight, please refer to the contact information provided with your purchase or visit the official UniqueFire website. Keep your purchase receipt as proof of purchase for warranty claims.

For additional resources and product updates, you may visit the [UniqueFire Store on Amazon](#).