ALONEFIRE SV52

Alonefire SV52 25W UV LED 365nm Rechargeable Flashlight User Manual

Model: SV52

1. INTRODUCTION

Thank you for choosing the Alonefire SV52 25W UV LED 365nm Rechargeable Flashlight. This professional-grade ultraviolet flashlight is designed for a wide range of applications, offering a powerful 365nm UV light source with a high-quality black filter lens for pure and effective UV output. Please read this manual thoroughly before use to ensure safe and optimal performance.

The Alonefire SV52 UV Flashlight, showing its powerful UV beam, included USB-C charging cable, and protective glasses.

2. SAFETY INFORMATION

WARNING: Ultraviolet (UV) light can be harmful to eyes and skin. Always follow these safety guidelines:

- **Eye Protection:** Always wear the provided UV protective glasses when operating the flashlight. Never look directly into the UV light source.
- **Skin Exposure:** Avoid prolonged direct exposure of skin to UV light.
- **Children:** Keep the flashlight out of reach of children.
- **Heat:** The flashlight may generate heat during extended use. Handle with care.
- **Battery Safety:** Use only the specified rechargeable battery. Do not attempt to disassemble or short-circuit the battery.
- **Disposal:** Dispose of batteries and electronic components according to local regulations.

3. Package Contents

Verify that all items are present in your package:

- Alonefire SV52 UV LED Flashlight

- Rechargeable Lithium-ion Battery (pre-installed or separate)

- USB Type-C Charging Cable

- UV Protective Glasses

The complete package contents of the Alonefire SV52 UV Flashlight.

4. Product Overview

The Alonefire SV52 features a robust design and specialized components for optimal UV performance.

Key Features:

- **High-Quality 365nm UV LED:** Utilizes a professional 365nm UV LED as the light source, providing 25W power consumption and 4800mW light output for effective detection.

- **Black UV Filter Lens:** Equipped with a hardened optical black filter lens that filters out ambient visible light, ensuring a purer and more powerful ultraviolet beam.
- **Durable Aluminum Alloy Shell:** Constructed from high-quality aluminum alloy, enhancing heat dissipation and ensuring reliability and durability.
- **USB Type-C Rechargeable:** Supports convenient USB Type-C charging.

Component Identification:

Spring Contact

Type C USB Charging Port

365nm UV LED

Black UV Filter Lens

Fixed Cup

Non-slip Handle

CAUTION
HOT
CAUTION: HOT SURFACE
AVOID EYE CONTACT LIGHT

Power Switch
(Press and hold for 3 seconds)

Fixed Ring

Lamp Head

Detailed view of the flashlight components.

Black UV Filter Lens

Filter undesired ambient light to make UV more pure

Filter undesired ambient light

High-quality 365nm UV LED

Illustration of the black UV filter lens function.

Comparison of 365nm vs. 395nm UV light effectiveness.

5. SETUP

5.1 Battery Installation

The Alonefire SV52 comes with a rechargeable Lithium-ion battery. Ensure the battery is correctly inserted with the positive (+) terminal facing towards the lamp head.

5.2 Initial Charging

Before first use, fully charge the flashlight. Connect the provided USB Type-C cable to the flashlight's charging port and to a compatible USB power source (e.g., computer, power adapter, power bank, car charger).

- The charging indicator light will be **red** during charging.
- The charging indicator light will turn **green** when fully charged.

USB C Rechargeable

Charging Indicator

Red: Charging

Green: Fully Charged

Charging the Alonefire SV52 via USB Type-C.

6. OPERATION

6.1 Powering On/Off

To turn the flashlight ON, press and hold the power switch for approximately 3 seconds. To turn it OFF, press and hold the power switch again for 3 seconds.

Proper grip and power switch location.

6.2 Usage Guidelines

Always wear the provided UV protective glasses before activating the flashlight. Direct the UV beam towards the area you wish to inspect. The 365nm wavelength, combined with the black filter lens, ensures that fluorescent materials glow brightly while minimizing visible light interference.

7. APPLICATIONS

The Alonefire SV52 UV flashlight is suitable for various professional and household applications:

- **Pet Urine and Stain Detection:** Identify hidden pet stains on carpets, rugs, and upholstery.
- **Mineral and Gemstone Inspection:** Observe fluorescence in various minerals, amber, and gemstones.
- **Currency and Document Verification:** Check security features on banknotes, passports, and other official documents.
- **Scorpion Detection:** Scorpions fluoresce brightly under 365nm UV light, making them easy to spot in dark environments.
- **Resin Curing:** Accelerate the curing process of UV-sensitive resins.
- **Fishing Lure Charging:** Charge fluorescent fishing lures for enhanced visibility.

- **Hygiene Inspection:** Detect invisible contaminants in bathrooms, kitchens, and other areas.

Pet urine detection.

Scorpion detection.

Mineral inspection.

8. MAINTENANCE

8.1 Cleaning

Wipe the flashlight body with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the lens clean for optimal light output.

8.2 Storage

Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, remove the battery or ensure it is charged periodically to maintain battery health.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery is depleted. Battery is incorrectly installed. Power switch malfunction.	Charge the battery. Check battery polarity. Contact customer support if issue persists.
Light output is weak.	Battery is low. Lens is dirty.	Recharge the battery. Clean the lens with a soft cloth.
Flashlight gets hot during use.	Normal operation for high-power UV LED. Prolonged use.	This is normal. Discontinue use if it becomes excessively hot. Ensure proper ventilation.
Charging indicator does not light up.	Charging cable is not properly connected. USB power source is faulty.	Ensure cable is securely connected. Try a different USB power source.

10. SPECIFICATIONS

Feature	Detail
Brand	ALONEFIRE
Model Number	SV52
Light Source Type	365nm UV LED
Power Consumption	25W
UV Light Output	4800mW

Feature	Detail
Material	Aluminum Alloy
Color	Black
Power Source	Battery Powered (Rechargeable)
Battery Type	1 Lithium-ion (Included)
Charging Port	USB Type-C
Item Weight	380 grams
Package Dimensions	18.4 x 8.8 x 5.7 cm
Special Features	High Power, Rechargeable, Black Filter Lens

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase.

Related Documents - SV52

User Manual SV003 UV Flashlight	[Alonefire SV003 UV Flashlight User Manual](#) User manual for the Alonefire SV003 UV Flashlight, detailing package contents, battery installation, usage instructions, and charging procedures.
User Manual H002 LED Flashlight	[Alonefire H002 LED Flashlight User Manual](#) User manual for the Alonefire H002 LED Flashlight, covering package contents, battery installation, operation, and charging instructions. Includes detailed textual descriptions of images and symbols.

User Manual SV003 UV Flashlight	**[Alonefire SV003 UV Flashlight User Manual](#)** User manual for the Alonefire SV003 UV Flashlight, detailing package contents, battery installation, usage instructions, and charging procedures.
User Manual H002 LED Flashlight	**[Alonefire H002 LED Flashlight User Manual](#)** User manual for the Alonefire H002 LED Flashlight, covering package contents, battery installation, operation, and charging instructions. Includes detailed textual descriptions of images and symbols.