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Alonefire SV13

Alonefire SV13 15W UV LED Flashlight User Manual

Model: SV13 | Brand: Alonefire

1. Introduction

The Alonefire SV13 is a powerful 15W UV LED flashlight designed for professional use, featuring a 365nm ultraviolet light source. It is equipped with a hardened black filter lens to purify the UV light by filtering out ambient light, ensuring clearer detection. The flashlight's body is constructed from high-quality aluminum alloy, which significantly enhances heat dissipation for reliable and durable performance. It comes with a high-capacity 5000mAh rechargeable Lithium-ion battery and a dedicated charger with overheat and overcharge protection. This versatile tool is ideal for detecting invisible stains or fluids, verifying documents, currency, and jewelry, and controlling resin curing processes.

2. Safety Information

WARNING: Ultraviolet (UV) light can be harmful to eyes and skin. Always wear appropriate UV protective eyewear when operating this flashlight. Avoid direct exposure of UV light to eyes and skin. Keep out of reach of children.

3. Product Overview

The Alonefire SV13 UV LED flashlight is built for durability and performance. Its robust design and specialized UV LED ensure effective illumination for various applications.



Figure 3.1: Alonefire SV13 UV LED Flashlight

The flashlight features a non-slip handle, a rubber switch for easy operation, and a powerful heat sink for efficient thermal management. The 365nm UV LED is protected by a black UV filter lens.



Figure 3.2: Exploded view showing key components like the 365nm UV LED, rubber switch, non-slip handle, powerful heat sink, fixed cup, fixed ring, and black UV filter lens.

The package includes the flashlight, a 5000mAh rechargeable battery, a battery charger, and protective eyewear.



Figure 3.3: Alonefire SV13 UV LED Flashlight with its 5000mAh rechargeable battery, charger, and yellow protective glasses.

4. Setup

4.1 Battery Installation

1. Unscrew the tail cap of the flashlight.
2. Insert the included 5000mAh Lithium-ion rechargeable battery with the positive (+) end facing towards the flashlight head.
3. Screw the tail cap back on securely.

4.2 Charging the Battery

Use the provided battery charger to charge the 5000mAh Lithium-ion battery. The charger features an indicator light for charging status.

1. Connect the charger to a USB power source using the provided cable.
2. Place the battery into the charger.
3. The indicator light will be **blue** during charging.
4. The indicator light will turn **green** when the battery is fully charged.
5. Remove the battery once fully charged to prevent overcharging.



Figure 4.1: Battery charger with blue (charging) and green (fully charged) indicator lights.

5. Operating Instructions

5.1 Power On/Off

Press the rubber switch located on the tail cap to turn the flashlight on or off.

5.2 Applications

The Alonefire SV13 UV LED flashlight is designed for a variety of detection and inspection tasks:

- **Pet Urine and Stain Detection:** The 365nm UV light effectively reveals invisible pet urine stains, fluids, and other organic residues on carpets, floors, and other surfaces.



Figure 5.1: Detecting pet urine stains on a carpet using the UV flashlight.

- **Pet Fungus Detection:** Can assist in identifying certain types of fungal infections on pets by observing fluorescence.



Figure 5.2: Using the UV flashlight for pet fungus detection.

- **Counterfeit Document and Currency Verification:** Reveals security features on banknotes, passports, and other official documents that are only visible under UV light.
- **Resin Curing:** Accelerates the curing process of UV-sensitive resins, ideal for crafts, repairs, and industrial applications.
- **Mineral and Gemstone Fluorescence:** Observe the natural fluorescence of various minerals and gemstones.
- **Leak Detection:** When used with UV-sensitive dyes, it can help detect leaks in automotive systems, HVAC, and plumbing.



Figure 5.3: Examples of UV flashlight applications, including pet stain detection, currency verification, and automotive leak detection.

5.3 Black UV Filter Lens

The flashlight incorporates a specialized black UV filter lens. This lens is designed to block visible light and unwanted ambient light, allowing only the pure 365nm ultraviolet light to pass through. This enhances the contrast and clarity of fluorescent materials, making detection more effective.



Figure 5.4: Diagram showing how the black UV filter lens filters ambient light to provide purer UV output.

5.4 Product Demonstration Video

Watch this video for a visual demonstration of the Alonefire SV13 UV LED Flashlight's features and various applications, including currency verification, mineral fluorescence, and leak detection.

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Video 5.1: Alonefire SV13 UV LED Flashlight in action, demonstrating its use for currency verification, mineral detection, and other applications.

6. Maintenance

6.1 Cleaning

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

6.2 Battery Care

- Charge the battery fully before first use.
- Do not overcharge or deep discharge the battery.

- If storing for an extended period, charge the battery to approximately 50% and recharge every 3-6 months.

6.3 Storage

Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures. Remove the battery if the flashlight will not be used for a long time.

7. Troubleshooting

Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery is dead or incorrectly installed.	Charge the battery fully. Ensure the battery is inserted with correct polarity. Check if the tail cap is screwed on tightly.
Light is dim.	Low battery charge.	Recharge the battery.
Charger indicator light does not turn green after charging.	Battery not fully charged or charger issue.	Ensure proper connection. Try a different USB power source or cable. If the issue persists, contact support.

8. Specifications

Feature	Detail
Special Feature	Rechargeable
Color	Violet
Power Source	Battery Powered
Light Source Type	UV LED (365nm)
Material	Aluminum
Wattage	15 Watts
Included Components	5000mAh Rechargeable Battery, Battery Charger
Battery Composition	Lithium-ion
Number of Batteries	1 (Included)
Water Resistance Level	Waterproof
Recommended Uses	Professional use, detection of invisible stains or fluids, verification of documents, jewelry and money, and resin hardening control
Manufacturer	Alonefire
Item Form	Cylindrical
Style	Professional
Finish	Anodized

9. Warranty Information

The Alonefire SV13 UV LED Flashlight comes with a manufacturer's warranty. Please refer to the product packaging or contact Alonefire

customer support for specific warranty terms and conditions. Spare parts availability is stated as 5 years.

10. Customer Support

For any questions, technical assistance, or support regarding your Alonefire SV13 UV LED Flashlight, please contact Alonefire customer service through their official website or the retailer where the product was purchased.

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