Alonefire SV87 395nm

Alonefire SV87 395nm UV Flashlight User Manual

Model: SV87 395nm

Introduction   Safety Information   Package Contents   Product

Overview   Setup   Operation   Maintenance   Troubleshooting   Specifications   Warranty & Support

1. INTRODUCTION

Thank you for choosing the Alonefire SV87 395nm UV Flashlight. This powerful and versatile UV light is designed for a wide range of applications, including pet urine detection, resin curing, mineral identification, currency authentication, and more. Featuring a high-quality 395nm UV LED, adjustable focus, and a durable aluminum alloy shell, this flashlight offers reliable performance. It is conveniently rechargeable via a USB-C port, ensuring ease of use and portability.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using the Alonefire SV87 UV Flashlight. Failure to follow these instructions may result in injury or damage to the product.

- **UV Radiation Warning:** Avoid direct exposure of UV light to eyes and skin. Prolonged exposure can be harmful. Use appropriate eye protection (UV-blocking glasses) when operating the flashlight for extended periods.
- **Children:** Keep out of reach of children. This is not a toy.
- **Heat:** The flashlight head may become warm during prolonged use. This is normal. Avoid touching the hot surface directly.
- **Battery Safety:** Use only the provided or recommended rechargeable battery. Do not attempt to disassemble, puncture, or short-circuit the battery. Dispose of batteries according to local regulations.
- **Water Resistance:** The flashlight is waterproof, but avoid submerging it in water for extended periods or at extreme depths. Ensure the USB-C port cover is securely closed before exposure to water.
- **Flammable Materials:** Do not use the flashlight near flammable liquids, gases, or materials.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Alonefire SV87 395nm UV Flashlight

- Rechargeable Lithium-Ion Battery (pre-installed or separate)
- USB-C Charging Cable

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your Alonefire SV87 UV Flashlight.

Figure 4.1: The Alonefire SV87 395nm UV Flashlight. This image shows the overall design of the flashlight, highlighting its compact and durable construction.

Figure 4.2: The Alonefire SV87 UV Flashlight held in hand, demonstrating its ergonomic design and portable size for comfortable use.

Figure 4.3: The detachable back clip feature of the Alonefire SV87 UV Flashlight, illustrating how it can be easily attached to clothing or bags for convenient carrying.

- **UV LED Emitter:** The light source for 395nm UV output.
- **Zoom Head:** Adjustable mechanism for focusing the beam.
- **Power Button:** Controls on/off and mode selection.
- **USB-C Charging Port:** For recharging the internal battery.
- **Charging Indicator:** LED light showing charging status.
- **Detachable Back Clip:** For convenient carrying and attachment.

5. SETUP

5.1 Battery Installation (if not pre-installed)

The Alonefire SV87 comes with a rechargeable Lithium-Ion battery. If the battery is not pre-installed, unscrew the tail cap, insert the battery with the positive (+) end facing towards the head of the flashlight, and then screw the tail cap back on

securely.

5.2 Charging the Flashlight

Before first use, fully charge the flashlight. The device features a convenient USB-C charging port.

1. Locate the USB-C charging port on the side of the flashlight and open its protective cover.
2. Connect the provided USB-C cable to the flashlight's port.
3. Connect the other end of the USB-C cable to a compatible USB power source (e.g., wall adapter, computer, power bank).
4. The charging indicator light will illuminate **red** during charging.
5. Once fully charged (approximately 4-5 hours), the indicator light will turn **green**.
6. Disconnect the charging cable and securely close the protective cover of the USB-C port to maintain water resistance.

Figure 5.1: Diagram illustrating the USB-C charging process for the Alonefire SV87 UV Flashlight, showing the port location, cable connection, and charging indicator states (red for charging, green for fully charged). Charging time is approximately 4-5 hours, providing

Figure 5.2: The Alonefire SV87 UV Flashlight with its USB-C charging cable connected, demonstrating the physical setup for recharging the device.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press the power button located on the body of the flashlight to turn the UV light on. Press it again to turn the light off.

6.2 Adjustable Focus (Zoom Function)

The Alonefire SV87 features an adjustable zoom head, allowing you to change the beam pattern from a focused spot to a wide flood.

- To **zoom in** (narrow, focused beam), push the head of the flashlight forward. This concentrates the UV energy for specific, small areas, ideal for resin curing or detailed inspection.

- To **zoom out** (wide, flood beam), pull the head of the flashlight backward. This spreads the UV light over a larger area, suitable for general detection tasks like scanning rooms for pet stains.
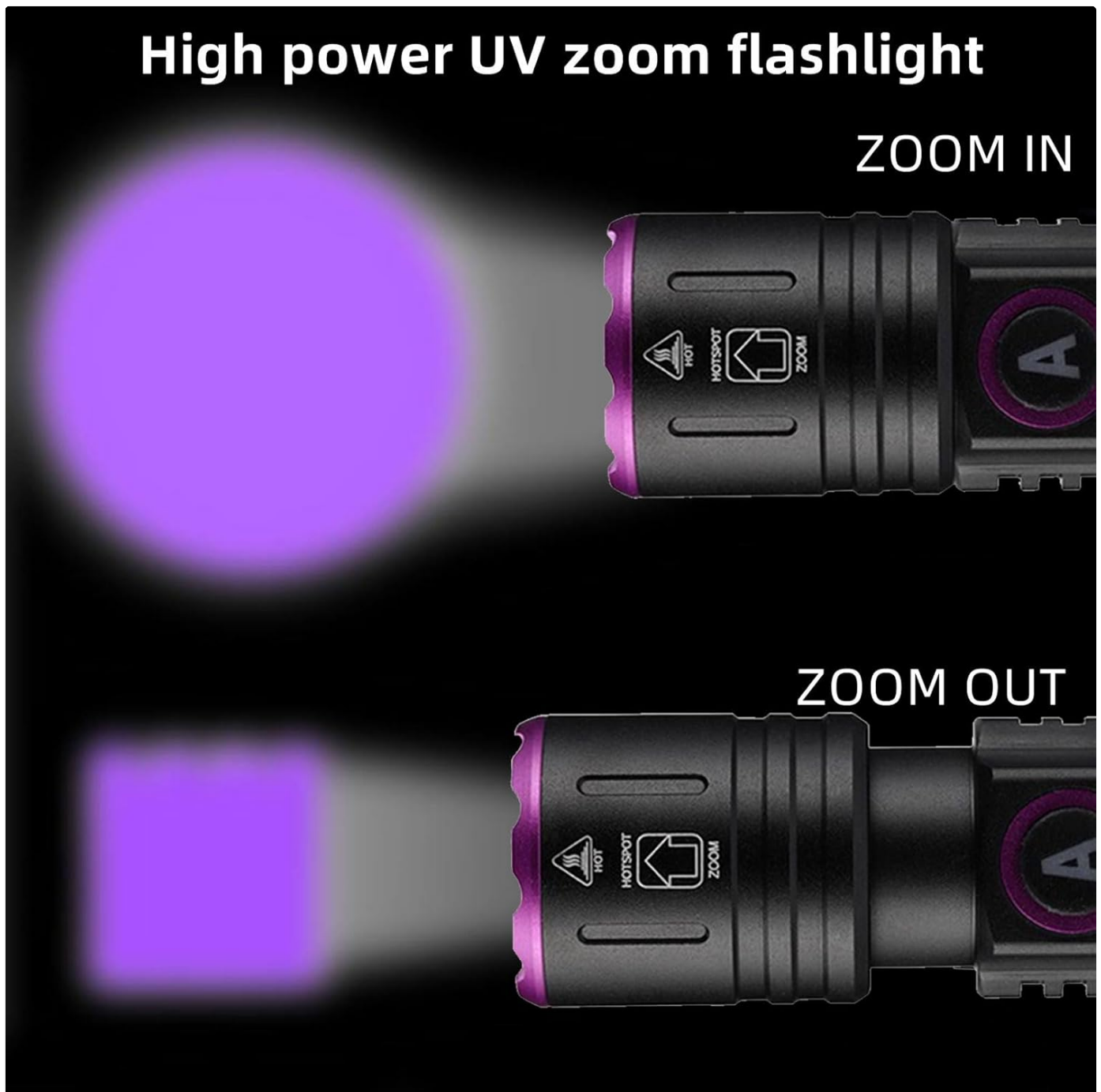

Figure 6.1: Illustration of the zoom function on the Alonefire SV87 UV Flashlight. The top image shows the flashlight zoomed in for a concentrated beam, while the bottom image shows it zoomed out for a wider flood beam, demonstrating the adjustable focus capability.

6.3 Common Applications

The 395nm UV wavelength is effective for revealing fluorescent substances not visible under normal light. Here are some common uses:

- **Pet Urine Detection:** Scan carpets, furniture, and floors in darkened rooms to locate hidden pet stains.
- **Resin Curing & Glue Curing:** Accelerate the curing process of UV-sensitive resins and glues. Use the zoom-in function for concentrated energy.
- **Currency & Document Authentication:** Verify security features on banknotes, passports, and other official documents.
- **Mineral & Rock Identification:** Observe fluorescence in certain minerals and rocks.

- **Scorpion Detection:** Scorpions fluoresce brightly under UV light, making them easier to spot in dark environments.
- **Leak Detection:** Identify leaks in HVAC systems, automotive fluids, or plumbing when used with UV-sensitive dyes.
- **Bed Bug & Pest Detection:** Some pests or their traces may fluoresce under UV light.

Figure 6.2: A collage of images demonstrating various applications of the Alonefire SV87 UV Flashlight, including pet urine detection, currency verification, mineral fluorescence, and resin curing.

7. MAINTENANCE

7.1 Cleaning

- Wipe the exterior of the flashlight with a soft, damp cloth.
- For the lens, use a lens cleaning cloth and a small amount of lens cleaning solution to avoid scratches.
- Do not use abrasive cleaners or solvents.

7.2 Battery Care and Storage

- Recharge the battery regularly, even if the flashlight is not used frequently, to maintain battery health.
- Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, it is recommended to charge the battery to about 50% capacity and recharge every 3-6 months.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery is depleted. Battery is incorrectly installed. Power button malfunction.	Charge the battery fully. Check battery orientation (+ end towards head). Contact customer support if button is unresponsive.
Light is dim or flickers.	Low battery. Loose connections.	Recharge the battery. Ensure tail cap is tightly screwed on.
Flashlight does not charge.	USB-C cable or power source is faulty. Charging port is obstructed.	Try a different USB-C cable and power source. Check the charging port for debris and clean gently if necessary.
Zoom function is stiff.	Dirt or debris in the mechanism.	Clean the exterior of the zoom head. Avoid forcing the mechanism.

9. SPECIFICATIONS

Feature	Detail
Model	SV87 395nm
Light Source	395nm UV LED
Light Source Wattage	5 Watts
Luminous Power	1000mW
Special Features	Adjustable Focus (Zoom), High Power, Rechargeable
Power Source	Battery Powered (Lithium Ion)
Charging Port	USB Type-C
Charging Time	Approx. 4-5 hours
Battery Life	Approx. 2 hours (continuous use)
Material	Anodized Aluminum
Color	Black
Item Weight	159 g (0.16 Kilograms)
Water Resistance Level	Waterproof
Included Components	Flashlight, Rechargeable Battery, USB-C Cable

Feature	Detail
Country of Origin	China

10. WARRANTY AND SUPPORT

Alonefire products are manufactured to high-quality standards. For warranty information or technical support, please refer to the seller's policy or contact Alonefire customer service through their official channels. Please retain your proof of purchase for any warranty claims.

For further assistance, please visit the Alonefire website or contact your retailer.