

## Alonefire SV57

# Alonefire SV57 3W 365nm UV Blacklight Instruction Manual

## INTRODUCTION

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Thank you for purchasing the Alonefire SV57 3W 365nm UV Blacklight. This compact and powerful device utilizes a high-quality 365nm UV LED light source, delivering 3 watts of output for professional-grade ultraviolet inspection. It features a hardened black filter optical lens designed to purify the UV light by minimizing visible light interference from the environment. Constructed from durable aluminum alloy, the flashlight ensures excellent heat dissipation and reliability. The built-in rechargeable battery supports convenient and fast Type-C USB charging. This manual provides essential information for the safe and effective use of your UV blacklight.



Figure 1: The Alonefire SV57 UV Blacklight shown with its USB-C charging cable.

## SAFETY INFORMATION

- **Do not look directly into the UV light source.** Prolonged exposure can be harmful to eyes.
- Keep out of reach of children.
- Do not immerse the device in water, despite its waterproof rating. It is designed to withstand rain, not submersion.
- Use only the provided USB-C cable or a compatible high-quality cable for charging.

## PACKAGE CONTENTS

- Alonefire SV57 UV Blacklight
- USB-C Charging Cable



Figure 2: The UV backlight and its accompanying USB-C charging cable.

## SETUP

### Charging the Device

1. Locate the USB-C charging port on the device.
2. Connect the provided USB-C cable to the backlight and to a compatible USB power source (e.g., computer, wall adapter).
3. The charging indicator light will illuminate red while charging.
4. Once fully charged, the indicator light will turn off.

Charging typically takes 2 to 2.5 hours. A full charge provides approximately 1 to 1.5 hours of battery life, depending on usage.



Figure 3: The blacklight connected to a laptop for charging, showing the charging indicator status.

## OPERATING INSTRUCTIONS

### Turning On/Off

- Press the power button located at the rear of the flashlight to turn it on.
- Press the power button again to turn it off.

### Applications

The Alonefire SV57 UV Blacklight is versatile and can be used for various detection and inspection tasks:

- **Pet Urine Detection:** Illuminate dark areas to reveal hidden pet stains on carpets, furniture, or floors.
- **Currency and Document Verification:** Check security features on banknotes, passports, and other official documents that fluoresce under UV light.
- **Mineral and Gemstone Inspection:** Observe the fluorescence of certain minerals and gemstones for identification



or appraisal.

- **Hotel Room Inspection:** Identify unsanitary spots or hidden stains in hotel rooms.
- **Scorpion Detection:** Scorpions are known to fluoresce under UV light, making them easier to spot in dark environments.
- **Cat Fungus (Ringworm) Detection:** Certain types of fungal infections in cats (like *Microsporum canis*) may fluoresce under a Wood's lamp (UV light). Consult a veterinarian for diagnosis.
- **Anisakis Detection in Fish:** While some sources suggest UV light for detecting *Anisakis* larvae in fish, it is not a definitive method. Always cook fish thoroughly to eliminate parasites.



Figure 4: Examples of the blacklight's diverse applications, including currency verification, pet stain detection, and mineral inspection.



## ペット尿検出器



Figure 5: The UV blacklight effectively reveals hidden pet urine stains on various surfaces.



Figure 6: Various banknotes displaying their security features under UV illumination.



Figure 7: UV light can assist in identifying certain types of cat fungus by causing affected areas to fluoresce.

### **Black Filter Lens Technology**

The SV57 is equipped with a specialized black filter optical lens. This lens is designed to block most visible light, allowing only the pure 365nm UV light to pass through. This results in a clearer and more effective fluorescence, enhancing the visibility of UV-reactive materials.





Figure 8: Exploded view demonstrating how the black filter lens purifies the UV light by filtering out unwanted ambient light.

### 365nm vs. 395nm UV Light

The 365nm wavelength is considered optimal for many UV detection tasks as it produces a purer UV light with less visible purple glow compared to 395nm UV lights. This allows for clearer observation of fluorescent reactions without interference from the light itself.



# ✓ 365nm 対 395nm



通常の光の下で

395nm UVを使用



365nm UVを使用

Figure 9: A visual comparison showing how minerals fluoresce more distinctly under 365nm UV light compared to 395nm UV light or normal light.

## MAINTENANCE

- **Cleaning:** Wipe the flashlight body with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Lens Care:** Gently clean the lens with a lens cleaning cloth to remove dust or smudges.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, charge the device regularly, even if not in frequent use. Avoid fully discharging the battery for extended periods.

## TROUBLESHOOTING

- **Device not turning on:** Ensure the battery is charged. Connect to a power source and check the charging indicator.

- **Weak UV light output:** The battery might be low. Recharge the device. Ensure the lens is clean and free of obstructions.
- **Charging not working:** Check the USB-C cable for damage. Try a different USB power source. Ensure the cable is fully inserted into both the device and the power source.
- **Water exposure:** The device is IP5 rated for water resistance (splash-proof), but not waterproof for submersion. If it gets wet, dry it thoroughly before use. Do not attempt to charge if wet.

## SPECIFICATIONS

Feature	Specification
Model Number	SV57
Brand	Alonefire
Light Source	365nm UV LED
Output Power	3 Watts
Battery Type	Built-in Lithium-ion rechargeable battery
Charging Port	USB Type-C
Charging Time	2 - 2.5 hours
Battery Life	1 - 1.5 hours
Water Resistance	IP5 (Splash-proof)
Material	Aluminum Alloy
Dimensions	86mm (Length) x 21mm (Diameter)
Weight	Approximately 0.28g (Package weight)
Color	Black

## WARRANTY AND SUPPORT

Alonefire products are designed for reliability and performance. For any questions, technical assistance, or warranty claims, please refer to the seller or contact Alonefire customer support through their official channels. Please retain your proof of purchase for warranty purposes.