

## ALONEFIRE SV16

# Alonefire SV16 5W 365nm UV LED Blacklight User Manual

Model: SV16 | Brand: ALONEFIRE

## 1. INTRODUCTION

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The Alonefire SV16 is a powerful and portable 5W UV LED blacklight, emitting a precise 365nm wavelength. Designed for various detection and inspection tasks, it features a high-quality UV LED, a specialized black filter lens for pure UV output, and a durable aluminum alloy body. This device is USB rechargeable and includes a reverse charging function, allowing it to serve as an emergency power bank. Please read this manual thoroughly before use to ensure safe and optimal operation.

## 2. SAFETY INFORMATION

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- **UV Radiation Warning:** Do not look directly into the UV light source. Prolonged exposure to UV light can be harmful to eyes and skin. Use appropriate eye protection if prolonged exposure is anticipated.
- Keep out of reach of children.
- Do not disassemble or modify the device. This may cause damage and void the warranty.
- Avoid exposing the device to extreme temperatures, direct sunlight, or corrosive liquids.
- Use only the provided or certified USB cables for charging.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Alonefire SV16 UV LED Blacklight
- USB Charging Cable
- Built-in Rechargeable Lithium-Ion Battery



Image: The Alonfire SV16 UV LED Blacklight shown alongside its USB charging cable.

#### 4. PRODUCT OVERVIEW

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The Alonfire SV16 features a compact and robust design, making it ideal for portable use. Its core components include a high-efficiency 365nm UV LED and a specialized black filter lens. This lens effectively blocks most visible light, ensuring that the emitted UV light is purer and more effective for detection tasks.



Image: A hand holding the compact Alonefire SV16 UV LED Blacklight, demonstrating its portable size.

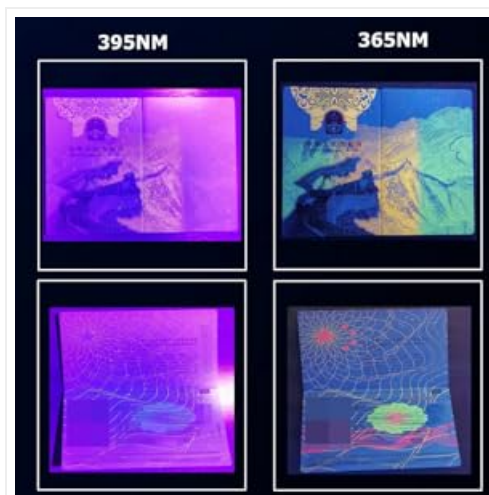


Image: A diagram illustrating how the black UV filter lens blocks ambient light to provide a purer 365nm UV output.

## 5. SETUP

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The Alonefire SV16 comes with a built-in rechargeable battery. Before first use, it is recommended to fully charge the device.

1. Unpack the UV LED blacklight and the USB charging cable from the package.
2. Proceed to the "Charging" section for instructions on how to charge the device.

## 6. OPERATING INSTRUCTIONS

To operate the Alonefire SV16:

1. **Power On/Off:** Press the power button located at the rear of the flashlight to turn the UV light on. Press it again to turn the light off.
2. **Usage:** Direct the UV light towards the area or object you wish to inspect. The 365nm wavelength is effective for revealing fluorescent materials and hidden marks.

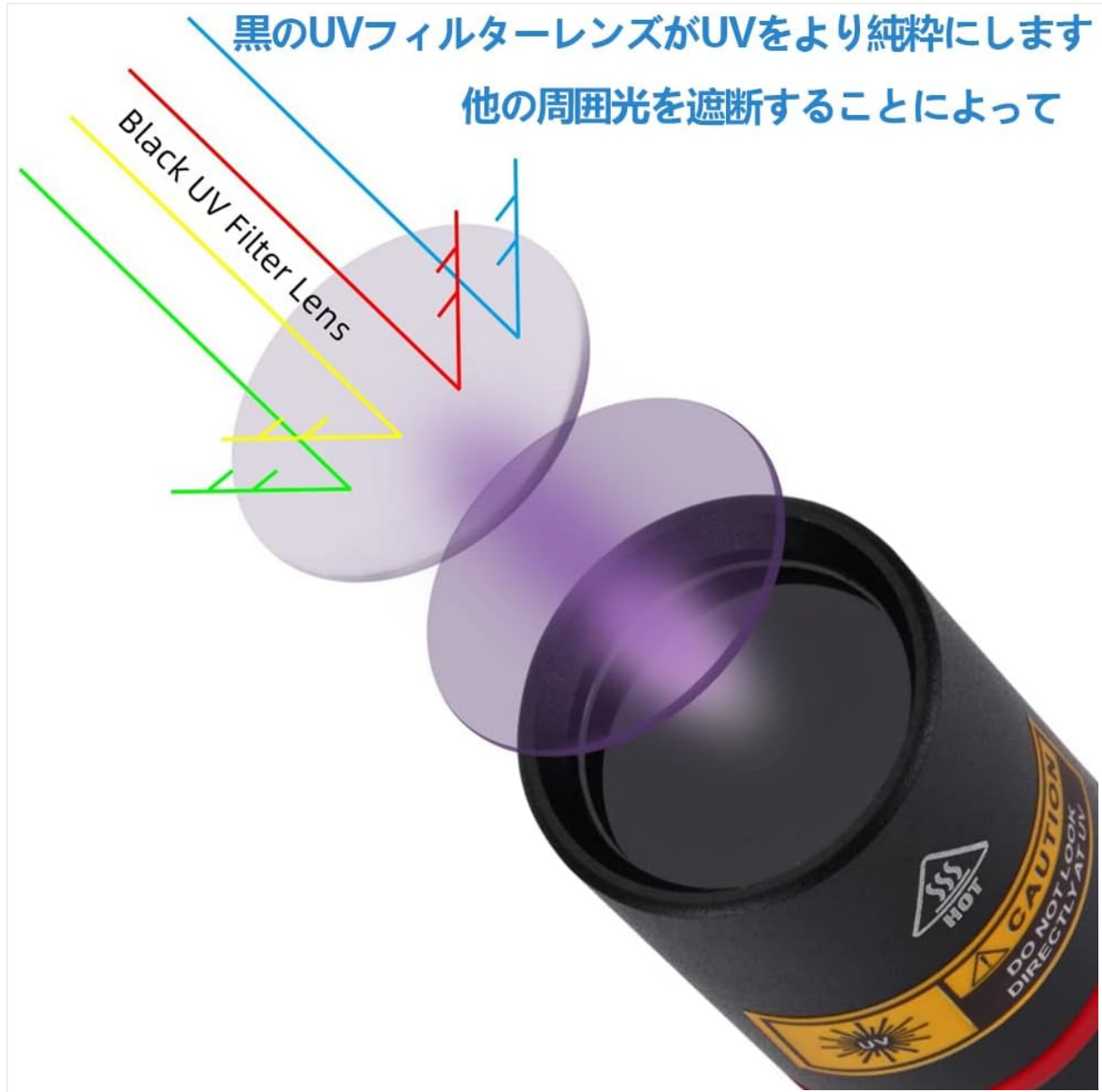


Image: The Alonefire SV16 UV LED Blacklight illuminating a surface, demonstrating its operational use.

## 7. CHARGING

The Alonefire SV16 is equipped with a USB charging port for convenient recharging.

1. Locate the USB charging port on the device. It is typically covered by a rubber flap for protection.
2. Open the rubber flap and insert the small end of the provided USB charging cable into the port.
3. Connect the larger end of the USB cable to a compatible USB power source, such as a computer, power bank, wall adapter, or car charger.
4. The charging indicator light (if present) will show the charging status. Refer to the product for specific indicator behavior (e.g., red for charging, green for full).

5. Once fully charged, disconnect the cable and close the rubber flap to protect the port.



Image: The Alonefire SV16 UV LED Blacklight connected to a USB wall adapter for charging.

## 8. REVERSE CHARGING (POWER BANK FUNCTION)

The Alonefire SV16 can also function as an emergency power bank to charge other devices.

1. Locate the USB-A output port, typically found under the same rubber flap as the charging input.
2. Connect your mobile phone or other compatible device to the USB-A output port using an appropriate charging cable.
3. The SV16 will begin to charge your device. This function is intended for emergency use due to the compact battery capacity.



Image: The Alonefire SV16 UV LED Blacklight connected via USB to a smartphone, demonstrating its reverse charging capability.

## 9. APPLICATIONS

The 365nm UV LED blacklight is versatile and can be used for various purposes:

- **Pet Urine and Stain Detection:** Reveals dried pet urine, food stains, and other organic residues on carpets, rugs, and upholstery that are invisible to the naked eye.
- **Currency and Document Verification:** Helps detect counterfeit currency, passports, and other official documents by revealing hidden security features.
- **Mineral and Gemstone Inspection:** Used by collectors to identify fluorescent minerals and verify the authenticity of certain gemstones.
- **Anisakiasis Detection:** Can assist in detecting Anisakis parasites in fish, which fluoresce under UV light.
- **Leak Detection:** Useful for detecting leaks in HVAC systems, automotive fluids, and other industrial applications when used with fluorescent dyes.
- **Hotel Room Inspection:** Helps identify uncleaned areas or hidden stains in hotel rooms.



Image: A collage demonstrating various uses of the UV blacklight, such as detecting pet stains, verifying currency, and identifying scorpions.



Image: The UV light revealing pet urine stains on a carpet, which are otherwise invisible.



Image: Various banknotes being inspected under UV light to reveal security features for authenticity verification.

## 10. MAINTENANCE

- **Cleaning:** Wipe the exterior of the blacklight with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** If storing for an extended period, charge the battery every 3-6 months to maintain its lifespan.

## 11. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on	Battery is depleted	Charge the device fully.
Light is dim	Low battery	Recharge the battery.
Device not charging	Faulty cable or power source	Try a different USB cable or power adapter. Ensure connections are secure.
Reverse charging not working	Target device not compatible or cable issue	Ensure the target device is compatible and try a different charging cable for the target device.

## 12. SPECIFICATIONS

Feature	Detail
Model	SV16
Light Source	365nm UV LED
Output Power	5W
Power Source	Battery powered
Battery Type	Lithium Ion (built-in)

Feature	Detail
Charging	USB Rechargeable
Reverse Charging	Yes (Emergency Power Bank)
Dimensions (D x W x H)	125mm x 24mm x 24mm
Weight	0.13 kg
Body Material	Aluminum Alloy
Country of Origin	China

### 13. WARRANTY AND SUPPORT

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The Alonefire SV16 5W 365nm UV LED Blacklight comes with a **2-year product warranty** from the date of purchase.

For technical support, warranty claims, or any inquiries regarding your product, please contact Alonefire customer service through the retailer where the product was purchased or visit the official Alonefire website for contact information.

Please retain your proof of purchase for warranty validation.