

UniqueFire UV500

UniqueFire UV500 365nm Black Light Flashlight Instruction Manual

Model: UV500

1. INTRODUCTION

The UniqueFire UV500 365nm Black Light Flashlight is designed for various detection and inspection tasks. It utilizes 365nm ultraviolet light, which is effective for revealing fluorescent materials that may not be visible under standard lighting conditions. This manual provides detailed instructions for the safe and efficient use of your UV500 flashlight.

2. PRODUCT FEATURES

- **365nm UV Wavelength:** Equipped with 5 high-power LEDs, providing 8000 uW/cm² radiation intensity. The 365nm wavelength filters visible light more effectively than 395nm UV flashlights, enhancing fluorescence detection.
- **Long-Distance Illumination:** Supports up to 70 feet of long-distance irradiation and detection.
- **Versatile Applications:** Suitable for pet urine detection, mineral and antique detection, outdoor scorpion searches, non-destructive testing (NDT), aviation, oil and gas, automotive, adhesive curing, manufacturing, and health level monitoring.
- **Rechargeable Batteries:** Powered by two rechargeable lithium batteries (included) for extended operation. Features a USB-C charging port for convenient recharging.
- **Durable Construction:** Made from aviation-grade aluminum, offering a lightweight, sturdy, drop-resistant, and wear-resistant body.
- **Waterproof and Dustproof:** IP65 rated for water and dust resistance, allowing use in various weather conditions, including rain.
- **Two Lighting Modes:** Offers high brightness and ultra-high brightness modes, switchable via the tail switch.



The image displays the UniqueFire UV500 flashlight highlighting its use in detecting pet urine, minerals, and scorpions, and for antique verification.



A detailed view of the flashlight's head, emphasizing its five 365nm UV LED chips and the specialized filter that blocks visible light for clearer UV detection.



This image depicts the UV500 flashlight's IPX65 waterproof and dustproof capabilities, showing it can withstand splashes and adverse weather conditions.

3. SETUP

3.1 Battery Installation

To install the batteries:

1. Unscrew the tail cap of the flashlight.
2. Insert the two rechargeable lithium batteries into the battery compartment, ensuring the positive (+) end faces towards the flashlight head.
3. Screw the tail cap back on securely.

Your browser does not support the video tag.

This video demonstrates the correct procedure for installing and removing the rechargeable batteries in the UniqueFire UV500 365nm Black Light UV Flashlight.

3.2 Charging the Batteries

The UV500 flashlight is powered by two rechargeable lithium batteries. When the batteries are low, the flashlight may blink every few seconds. Use the included USB-C charger to recharge the batteries. You can connect the charger to a

mobile power bank, a wall charging socket, or a laptop.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off and Mode Switching

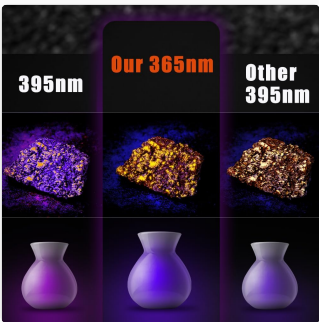
To turn the flashlight on or off, fully press the tail switch. To switch between the two lighting modes (high brightness and ultra-high brightness), press the tail switch halfway. It is generally recommended to use the high brightness mode to conserve battery life, reserving ultra-high brightness for specific situations.

4.2 Usage Tips

- **Pet Urine Detection:** In a darkened room, shine the UV light over carpets, upholstery, and other surfaces. Urine stains will typically fluoresce a yellowish-green color.
- **Mineral and Antique Detection:** Many minerals and certain antique materials exhibit fluorescence under UV light. Observe for glowing patterns or colors to identify specific properties.
- **Scorpion Search:** Scorpions naturally fluoresce under UV light, making them easier to spot in dark environments.



The flashlight emits a pure 365nm UV light, demonstrating its ability to trigger fluorescent reactions in objects like minerals, making them glow brightly.



A visual comparison demonstrating the superior performance of 365nm UV light over 395nm UV light in revealing fluorescence, with objects glowing more distinctly under 365nm.

Your browser does not support the video tag.

This video showcases the UniqueFire UV500 365nm Black Light UV Flashlight illuminating various rocks, revealing their natural fluorescence.

Your browser does not support the video tag.

This video demonstrates the UniqueFire UV500 365nm Black Light UV Flashlight illuminating a fluorescent bracelet, highlighting its glowing

properties.

Your browser does not support the video tag.

This video provides a direct comparison between 365nm and 395nm UV lights, showing how the UniqueFire UV500's 365nm wavelength offers clearer and more effective fluorescence detection on various materials.

5. MAINTENANCE

- **Cleaning:** Wipe the flashlight body with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the lens clean for optimal performance.
- **Battery Care:** Recharge batteries regularly, especially if the flashlight will not be used for an extended period. Store batteries in a cool, dry place.
- **Storage:** Store the flashlight in a dry environment, away from direct sunlight and extreme temperatures. Remove batteries if storing for long periods to prevent leakage.

6. TROUBLESHOOTING

- **Flashlight not turning on:**
 - Check if batteries are installed correctly with the correct polarity.
 - Ensure batteries are charged.
 - Verify the tail cap is screwed on tightly.
- **Light is dim:**
 - Recharge the batteries.
 - Clean the lens surface.

7. SPECIFICATIONS

Feature	Specification
Model Number	UV500
UV Wavelength	365nm
LEDs	5
Radiation Intensity	8000 uW/cm²
Light Path Distance	70 Feet
Power Source	Battery Powered
Battery Type	2 x Lithium Ion (included)
Charging Port	USB-C
Material	Aluminum
Water Resistance Level	IP65 (Water Repellent)
Product Dimensions	3 x 3 x 12 cm
Weight	671 g

Runtime	50000 hours (LED lifespan)
---------	----------------------------



This image provides the physical dimensions of the UV500 flashlight, including its length, head diameter, and tail diameter, along with its weight.



This diagram shows how the high-performance filter lens works to ensure a focused 70-foot long-range UV beam, enhancing detection clarity.



The image shows the complete package contents: the UV500 flashlight, two rechargeable lithium batteries, a USB-C charger, and a portable leather case.

8. WARRANTY AND SUPPORT

UniqueFire products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official UniqueFire website. Keep your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question