

DARKBEAM V4+V5-DB

DARKBEAM UV Flashlight User Manual

Model: V4+V5-DB

1. PRODUCT OVERVIEW

The DARKBEAM UV Flashlight is a versatile tool equipped with both 365nm and 395nm ultraviolet light sources. Its compact and durable design makes it suitable for a wide range of applications, from household inspections to specialized professional uses. The integrated rechargeable battery and USB-C charging port ensure convenience and long-term usability.



Figure 1: DARKBEAM UV Flashlight (V4 and V5 models) with accessories.

2. PACKAGE CONTENTS

- V4 UV Flashlight (365nm) x1
- V5 UV Flashlight (395nm) x1
- Built-in Lithium Ion Battery (included in each flashlight)
- USB Charging Cable x2
- Instruction Manual x2

3. KEY FEATURES

- **Dual Wavelengths:** Features both 365nm (invisible, purer UV) and 395nm (violet, general purpose) UV LEDs.
- **High Power Output:** Each LED bead provides 10W power and 1300mW radiant intensity.
- **Filtered 365nm Light:** Equipped with a hard toughened black filter to remove visible purple light, enhancing detection clarity for specific applications.
- **USB-C Rechargeable:** Built-in rechargeable battery with convenient USB-C direct charging.
- **Compact and Portable:** Weighs 2.02 oz and measures 3.5*0.85 inches, designed for easy carrying.
- **Durable Construction:** High-quality aluminum alloy case for enhanced heat dissipation and reliability.

4. SETUP AND CHARGING

Initial Charge

Before first use, fully charge the flashlight. The device comes with a built-in Lithium Ion battery.

Charging Procedure

1. Locate the USB-C charging port on the flashlight.
2. Connect the provided USB-C charging cable to the flashlight.
3. Plug the other end of the USB cable into any standard USB power source (e.g., wall adapter, computer, power bank) with an output of 5V/2A or less.
4. The power indicator light on the end switch will illuminate red during charging.
5. Once fully charged (approximately 1 hour), the indicator light will turn green.

TYPE-C DIRECT CHARGE

Rechargeable battery, charging with any 5V/2A USB port



Figure 2: USB-C Direct Charge and Indicator Lights.

A full charge provides approximately 1 hour of runtime.

5. OPERATING INSTRUCTIONS

Turning On/Off

Press the power button located on the end of the flashlight to turn it on. Press again to turn it off.

Using the 365nm Flashlight (V4)

The 365nm light is a purer, less visible UV light. It is ideal for detecting fluorescent agents, security codes, watermarks, and for applications like rock hounding or antique appraisal. When irradiating items containing fluorescent agents, it will show an obvious blue-violet light.

UV BLACK FILTER LENS

Filter out interfering stray light by specialized UV filter black len, make detection more effective

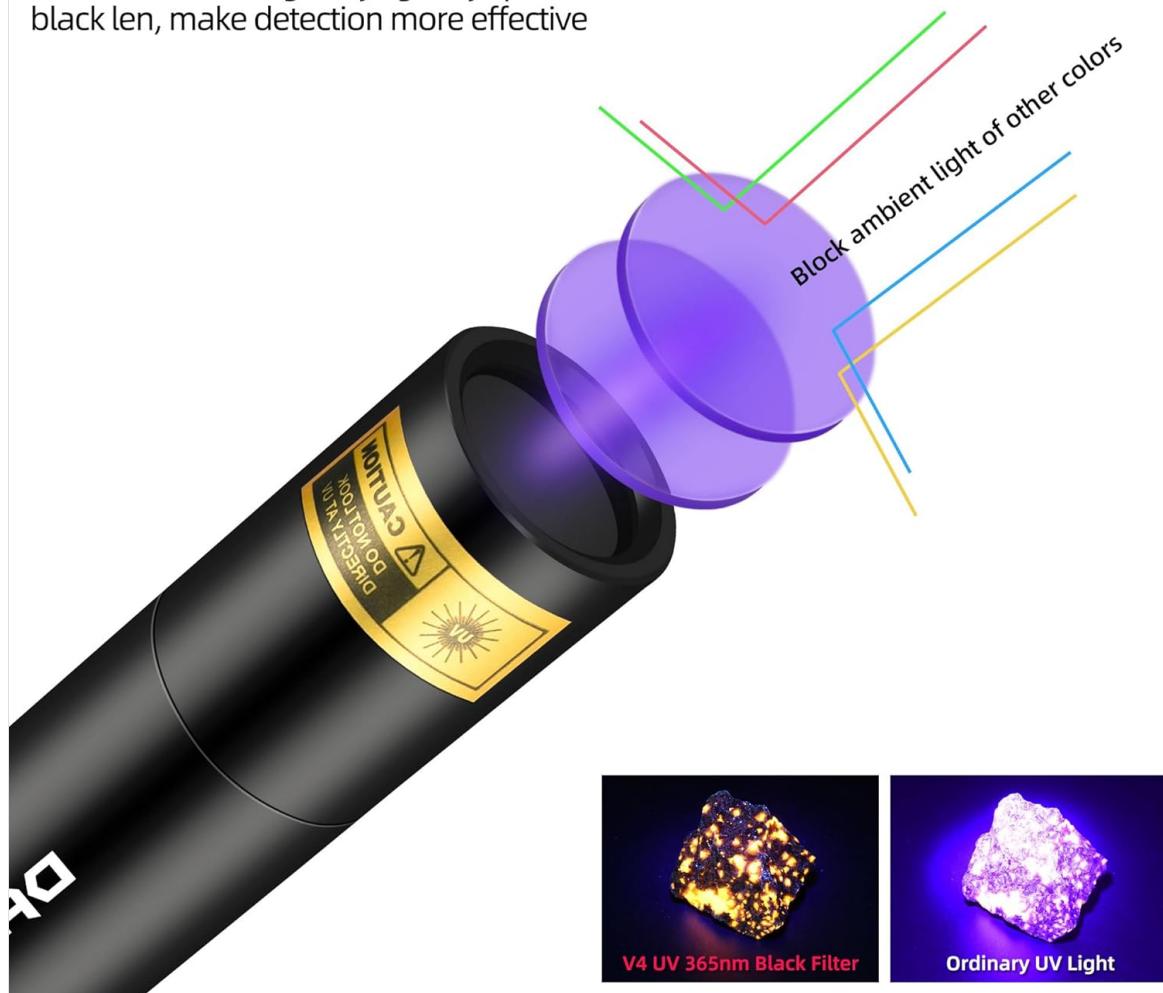


Figure 3: UV Black Filter Lens for enhanced detection.

CAUTION: Do not twist the top of the flashlight, as this may cause it to stop working.

Using the 395nm Flashlight (V5)

The 395nm light emits a more visible violet light and is excellent for general detection purposes, such as pet urine, stains, and other fluorescent materials.

PET URINE DETECTOR

Easily find pet urine stains on rugs, carpets and clothes that are invisible to human eyes



Figure 4: Pet Urine Detector in action.

Important Note: The 365nm light is designed to be less visible to the human eye than the 395nm light. This is normal and indicates a purer UV output for specific applications. Do not look directly at the UV light.

6. APPLICATIONS

The DARKBEAM UV Flashlights are suitable for numerous applications:

- Detecting dried pet urine and other invisible stains on carpets, rugs, and clothing.
- Authenticating banknotes, passports, and other security documents.
- Curing UV resin for crafts and 3D printing.
- Identifying fluorescent minerals, uranium glass, and gemstones.
- Locating hidden cracks in ceramics or glassware.
- Detecting AC leaks in vehicles.
- Finding scorpions and certain insects (e.g., tomato hornworms).
- Inspecting hotel rooms for cleanliness.

- Detecting cat ringworm.

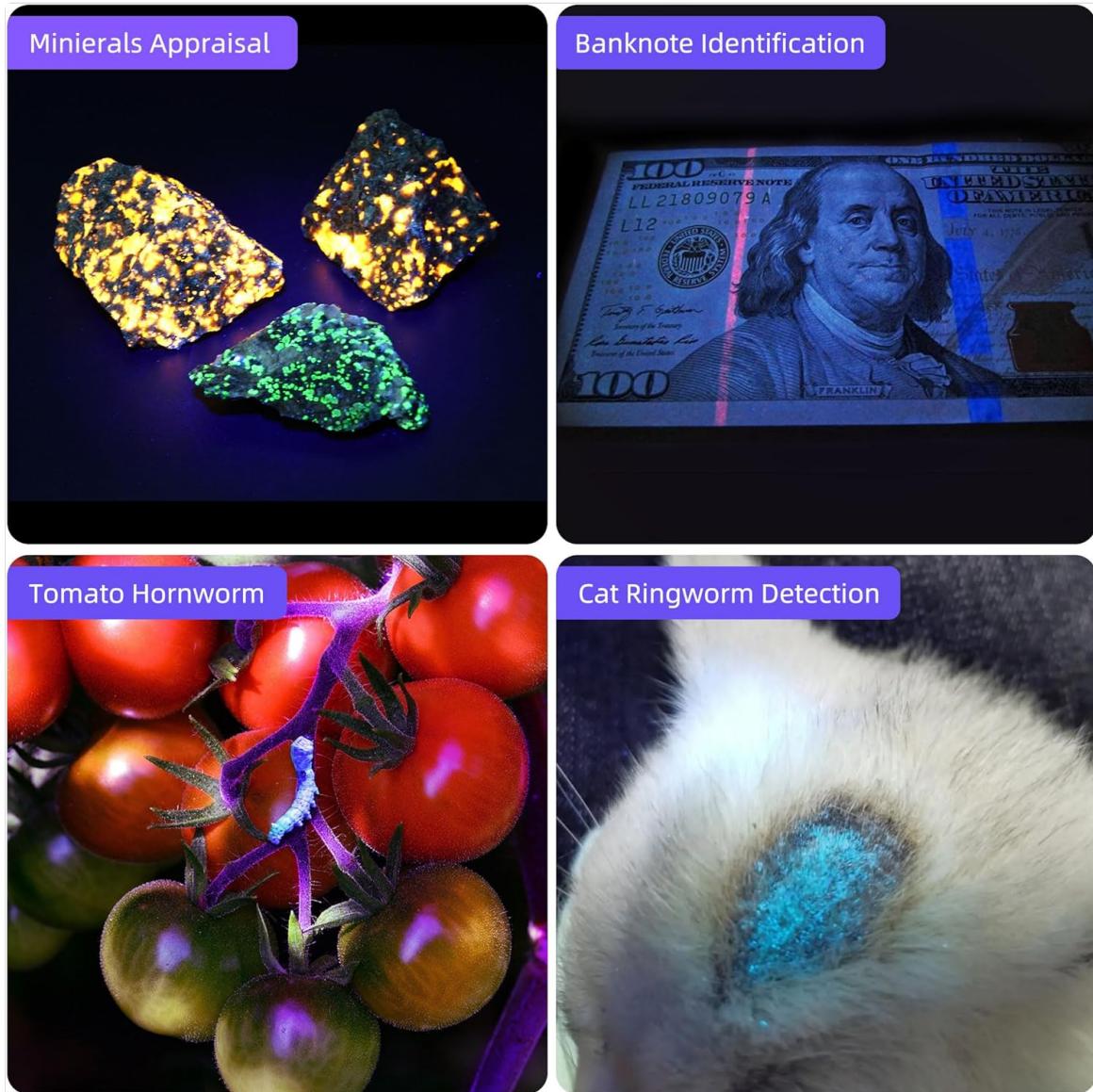


Figure 5: Diverse applications of the UV flashlight.

Video 1: Demonstration of DARKBEAM UV 365nm flashlight (V4) showing its effectiveness on silicon zinc ore compared to other products.

7. MAINTENANCE AND CARE

- **Cleaning:** Wipe the flashlight body with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, charge the flashlight regularly, even if not in frequent use. Avoid completely draining the battery before recharging.
- **Water Resistance:** This product is **Not Water Resistant**. Avoid exposure to water or high humidity.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on.	Low battery; Power button malfunction.	Charge the flashlight fully. Ensure the power button is pressed firmly.
Light is dim or flickers.	Low battery.	Recharge the flashlight.
365nm light appears very dim.	Normal operation for 365nm wavelength.	The 365nm light is designed to be less visible to the human eye for purer UV output. This is not a defect.
Flashlight not charging.	Cable or power source issue; Port obstruction.	Try a different USB-C cable or power source. Check the charging port for debris.

9. SPECIFICATIONS

Feature	Detail
Brand	DARKBEAM
Model Number	V4+V5-DB
Product Dimensions	0.85"D x 0.85"W x 3.5"H
Item Weight	1.92 ounces
Light Source Type	UV LED (365nm & 395nm)
Light Source Wattage	10 Watts
Brightness	1300 millicandela
Power Source	Battery Powered (Built-in Lithium Ion)
Charging Input	5 Volts (DC) / 2A (USB-C)
Runtime	1 hour (approx.)
Material	Aluminum
Water Resistance Level	Not Water Resistant

10. WARRANTY AND SUPPORT

This product is covered by the manufacturer's standard warranty. Please refer to the product

packaging or contact the seller for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact DARKBEAM customer service through the platform where you purchased the product or visit the official DARKBEAM store page on Amazon.

DARKBEAM Store: <https://www.amazon.com/stores/DARKBEAM/page/88F8C00E-204E-44D4-9925-CBF4532DC27B>

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