

## DARKBEAM B14

# DARKBEAM UV Flashlight B14 User Manual

Model: B14 | Brand: DARKBEAM

## IMPORTANT SAFETY INFORMATION

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**WARNING:** For your safety, please do not look directly at the UV light for a long time. Direct exposure to UV light can cause eye damage.

**CAUTION:** Charger that supplies more than 2A should NOT be used with this device.

## PRODUCT OVERVIEW

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The DARKBEAM B14 UV Flashlight is a powerful 20W ultraviolet light designed for various detection and curing applications. It features a 365nm filtered UV light, a USB-C rechargeable battery, and a durable aluminum alloy construction.



Figure 1: DARKBEAM UV Flashlight B14 and included USB-C charging cable.

## Key Features:

- **Upgraded 4-Core UV Light Bead:** 20W high power, 480mW radiant intensity, 365nm wavelength.
- **Filtered UV 365nm Light:** Equipped with a hard toughened black filter optical lens to filter out visible purple light, providing purer invisible ultraviolet light.
- **USB-C Rechargeable:** Built-in high-capacity rechargeable battery (6+ hours runtime) with a convenient Type-C charging port.
- **Switch Power Indicator:** Red light indicates low battery, green light indicates fully charged.
- **Durable Construction:** Aluminum alloy body with non-slip mesh, IPX64 waterproof rating.

## WHAT'S IN THE Box

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- DARKBEAM UV Flashlight B14
- USB-C Cable & Adapter

- UV Glasses (for eye protection)
- Cloth Cover
- Hand Strap
- Rechargeable Battery (pre-installed)



Figure 2: Included accessories: UV flashlight, USB-C cable, adapter, UV glasses, cloth cover, and hand strap.

## SETUP

### Initial Charging:

1. Before first use, fully charge the flashlight.
2. Locate the USB-C charging port on the flashlight.
3. Connect the included USB-C cable to the flashlight and a compatible USB power source (e.g., adapter, power bank, laptop) within 5V/2A.
4. The power indicator light will show red during charging. It will turn green when fully charged.

# HIGH POWER RECHARGEABLE BATTERY



Figure 3: Connecting the USB-C charging cable to the flashlight.

## Attaching the Hand Strap:

Thread the hand strap through the loop at the tail cap of the flashlight to secure it for portable use.

## Wearing UV Glasses:

Always wear the provided UV glasses when operating the flashlight to protect your eyes from direct UV exposure.

## OPERATING INSTRUCTIONS

### Power On/Off:

Press the power button located on the side of the flashlight to turn it on or off.

# UV BLACK FILTER LENS

Stray Light filtered by specialized UV Filter Black Len.

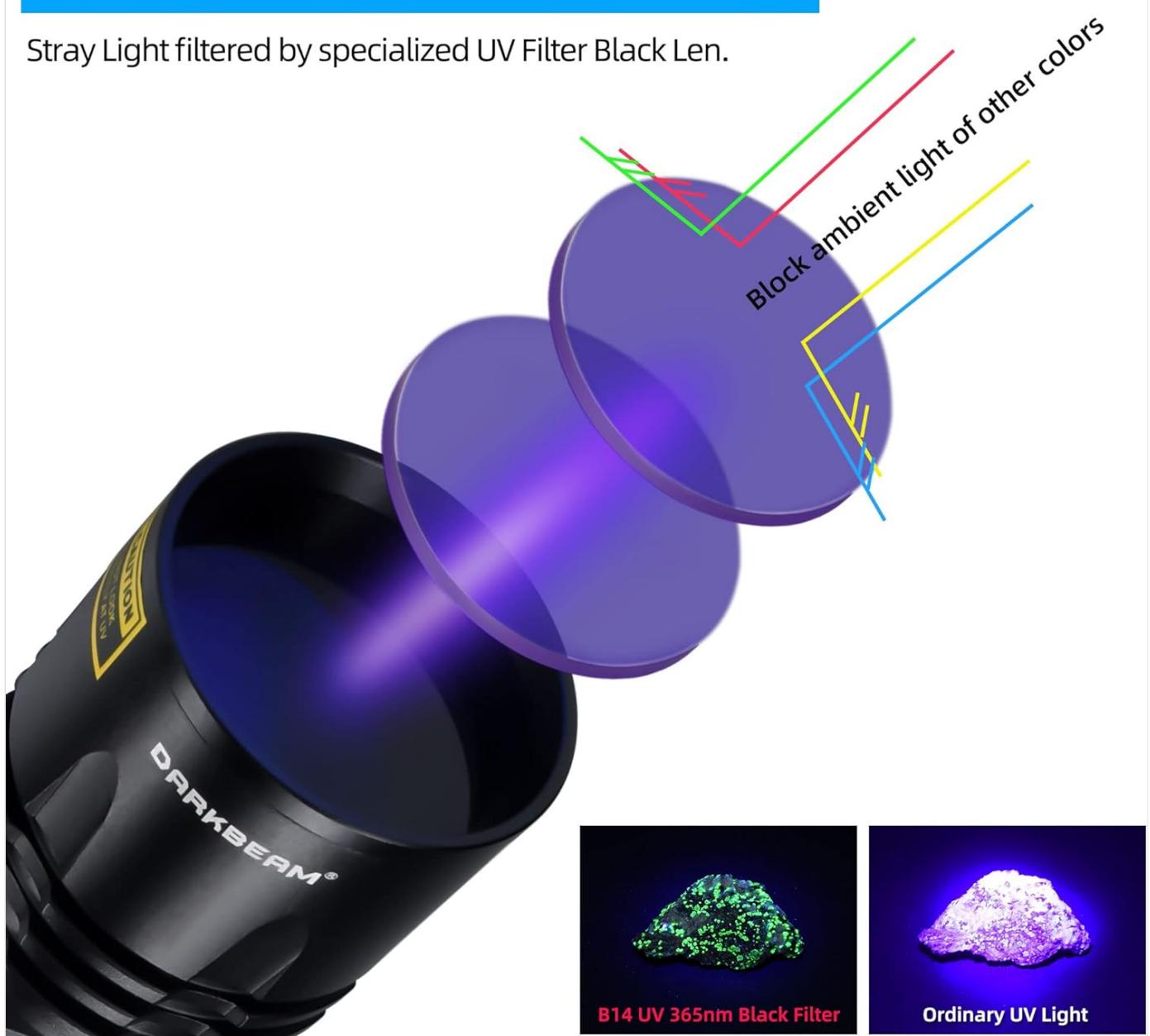


Figure 4: Operating the power button on the flashlight.

## Understanding 365nm UV Light:

The 365nm UV light is largely invisible to the naked eye. It will not appear as bright as a standard flashlight or a 395nm UV light. Its effectiveness is observed when it illuminates items containing fluorescent agents, security codes, or watermarks, causing them to glow with a blue-violet light.

# HIGH INTENSITY \*4 CORE CHIPS

4-core chip, 20W high power, High intensity UV 365nm light.



20W  
high power



4-core lamp



Large flood



Figure 5: The specialized UV black filter lens blocks ambient light, allowing only the pure 365nm UV light to pass through for clearer detection.

## Common Applications:

- **Pet Urine and Stain Detection:** Ideal for locating dried pet urine and other invisible stains on carpets, furniture, and other surfaces.
- **Mineral and Gemstone Identification:** Used to identify fluorescent minerals and authenticate gemstones.
- **Banknote and Document Verification:** Reveals security features on currency, passports, and other official documents.
- **Resin Curing:** Suitable for curing UV reactive adhesive agents and resins.
- **Leak Detection:** Can be used with fluorescent dyes to detect leaks in automotive systems (e.g., engine oil, A/C, water tanks).
- **Hotel Hygiene Inspection:** Helps identify unclean areas in hotel rooms.
- **Scorpion Hunting:** Scorpions fluoresce under UV light, making them easier to spot.

# IPX65 Waterproof

It is suitable for humid conditions and it won't get spoiled by water drops, but not suitable for swimming or going with it to shower



Waterproof



Figure 6: Examples of the flashlight's diverse applications, from pet stain detection to banknote verification.



Figure 7: The flashlight being used to detect fluorescent leaks in an engine compartment.

## MAINTENANCE

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### Cleaning:

Wipe the flashlight body with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the lens is clean for optimal performance.

### Storage:

Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged (around 50%) to prolong its lifespan.

### Water Resistance:

The flashlight has an IPX64 waterproof rating, meaning it is resistant to water splashes and humid conditions. It is **NOT** suitable for submersion in water, swimming, or showering.

# The Applications of B14

Professional testing tools

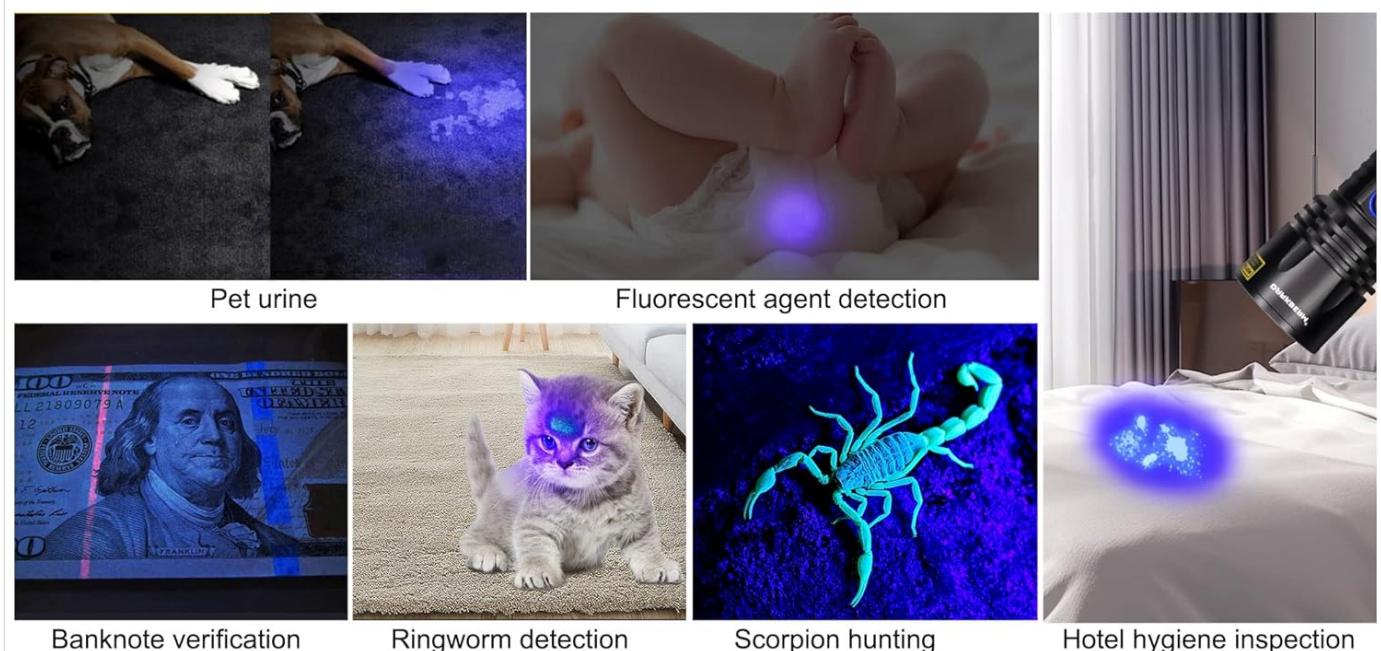


Figure 8: The flashlight is designed to withstand water splashes, but not full submersion.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery is depleted.	Charge the flashlight using the provided USB-C cable until the indicator light turns green.
Light appears dim or not bright enough.	This is a 365nm UV light, which is largely invisible to the naked eye.	The light is designed to illuminate fluorescent materials, not to provide visible illumination. Its effectiveness is seen when it reacts with target substances.
Charging indicator light does not turn green.	Charging cable or adapter issue; battery not fully charged.	Ensure the USB-C cable is securely connected. Try a different USB power source (within 5V/2A). Allow sufficient time for charging (up to 6 hours for a full charge).

Problem	Possible Cause	Solution
Flashlight gets warm during use.	Normal operation for high-power LED devices.	This is normal. The aluminum body helps dissipate heat. If it becomes excessively hot, turn it off and allow it to cool.

## SPECIFICATIONS

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- **Model:** B14
- **Light Source:** Upgraded 4-core UV LED
- **Wavelength:** 365nm
- **Power:** 20W
- **Radiant Intensity:** 480mW
- **Material:** Aluminum Alloy
- **Dimensions:** 1.73"D x 1.74"W x 1.31"H (Product Dimensions)
- **Weight:** 8.9 ounces (252 Grams)
- **Battery:** 1 Lithium Ion (included)
- **Runtime:** Approximately 6 hours (on high power mode)
- **Charging Port:** USB-C (5V/2A max input)
- **Water Resistance:** IPX64
- **Included Components:** Flashlight, Battery, UV glasses, Cloth cover, Hand strap, USB cable & Adapter

## WARRANTY AND SUPPORT

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### Warranty:

DARKBEAM provides a 180-Day Money Back Guarantee and a One Year Guarantee for this product. For any questions or issues, please contact DARKBEAM customer support.

### Customer Support:

For prompt support and effective solutions, please contact DARKBEAM directly. They aim to provide a 24-hour response.

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