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## DARKBEAM B96-365

# DARKBEAM B96-365 UV 365nm 6xLED Rechargeable Flashlight Instruction Manual

Model: B96-365 | Brand: DARKBEAM

## 1. Introduction

The DARKBEAM B96-365 UV 365nm 6xLED Rechargeable Flashlight is a high-intensity ultraviolet light tool designed for various detection and curing applications. This manual provides essential information for safe and effective use of your device.

## 2. Product Features

- **High-Intensity UV Output:** Equipped with 6 UV LEDs, providing 60W power and 2680mW radiant intensity for effective detection.
- **Professional Filtered 365nm UV Light:** Features a hardened black filter optical lens to emit purer, invisible UV365 light, ideal for precise detection of security codes, cat ringworm, and minerals.
- **Stepless Dimming:** Adjustable brightness from 20% to 100% by long-pressing the switch, allowing customization for different tasks and extending battery life.
- **USB-C Rechargeable & Power Bank Function:** Built-in high-capacity battery offers 6-8 hours of runtime. Direct USB-C charging (5V/2A input) and USB output for emergency charging of other electronic devices.
- **Durable & Portable Design:** Compact size (5.9 x 1.8 inches, 10.8 oz) for easy one-hand operation. Constructed from high-quality aluminum alloy for excellent heat dissipation.
- **IPX65 Rated:** Designed to be waterproof, shockproof, dustproof, and snowproof, ensuring reliability in various environments.

Figure 2.1: High-power 60W UV output and comparison with low-power UV light.

Figure 2.2: Professional black filter lens for pure 365nm UV light and comparison of UV wavelengths.

## 3. Setup

### 3.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Inspect the flashlight and accessories for any signs of damage. If any damage is found, do not use the product and contact customer support.

### 3.2 Included Components

- DARKBEAM B96-365 6xLED UV 365nm Flashlight (battery pre-installed)
- USB-C Charging Cable
- Lanyard
- UV Protective Glasses
- Fabric Case

Figure 3.1: Included product components.

### 3.3 Initial Charging

Before first use, fully charge the flashlight. Connect the provided USB-C cable to the flashlight's charging port and to any 5V/2A USB power source. The power indicator on the switch will be RED during charging and turn GREEN when fully charged.

Figure 3.2: USB-C charging and USB output interface.

## 4. Operating Instructions

### 4.1 Power On/Off

To turn the flashlight ON or OFF, short press the power switch located on the side of the device.

### 4.2 Brightness Adjustment (Stepless Dimming)

While the flashlight is ON, long press the power switch to activate stepless dimming. The brightness will cycle between 20% and 100%. Release the switch at your desired brightness level.

### 4.3 Using the Power Bank Function

To use the flashlight as an emergency power bank, connect your electronic device to the USB-A output port using

a compatible cable.

Figure 4.1: Multi-gear switch design with stepless dimming.

## 5. Applications

The DARKBEAM B96-365 UV flashlight is versatile and can be used for:

- Detecting pet urine and other hidden stains.
- Identifying fluorescent minerals and rocks.
- Authenticating currency and official documents.
- Curing UV resin for 3D printing or nail art.
- Detecting leaks in machinery or HVAC systems.
- Identifying cat ringworm.

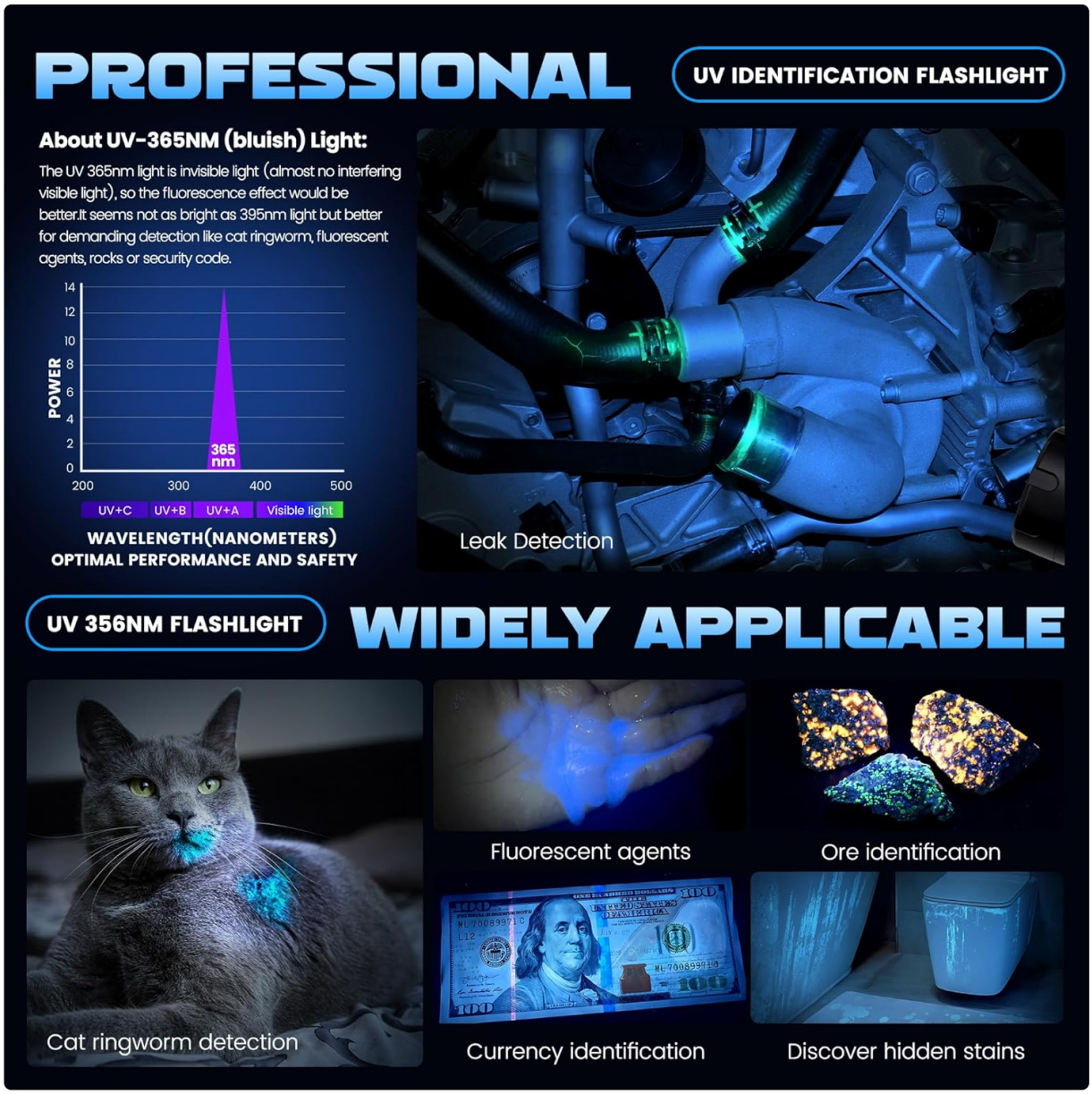


Figure 5.1: Wide range of professional UV identification applications.

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Video 5.1: Demonstration of the DARKBEAM B96-Pro-365nm UV flashlight's features, including charging, high-power UV output, black filter design, two brightness modes, and comparison of 365nm vs 395nm UV for mineral and banknote detection.

## 6. Maintenance

### 6.1 Cleaning

Wipe the flashlight's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the lens clean for optimal performance.

### 6.2 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%) and recharge every 3-6 months to maintain battery health.

### 6.3 Battery Care

The integrated lithium metal battery is designed for long life. Avoid fully discharging the battery frequently.

Recharge promptly when the low power indicator appears.

## 7. Troubleshooting

- **Flashlight not turning on:** Ensure the battery is charged. If the indicator light is red, charge the device.
- **Light is dim or flickering:** The battery may be low. Recharge the flashlight.
- **Flashlight not charging:** Check the USB-C cable and power adapter for proper connection and functionality. Try a different cable or power source.
- **Power bank function not working:** Ensure the flashlight has sufficient charge. Check the connection to the device you are trying to charge.

If issues persist, please contact DARKBEAM customer support.

## 8. Specifications

| Attribute | Detail |
|---|---|
| Brand | DARKBEAM |
| Model Number | B96-365 |
| Dimensions (L x W x H) | 14.99 x 4.57 x 3.56 cm (5.9 x 1.8 x 1.4 inches) |
| Weight | 306.17 grams (10.8 oz) |
| Battery | 1 Lithium metal (included) |
| Number of LEDs | 6 |
| UV Wavelength | 365nm |
| Power | 60 Watts |
| Waterproof Rating | IPX65 |
| Material | Aluminum |

Figure 8.1: Portable size and dimensions of the flashlight.

Figure 8.2: IPX65 waterproof rating details.

## 9. Safety Information

**WARNING: Ultraviolet (UV) light can be harmful to eyes and skin. Please read and follow all safety precautions.**

- **Eye Protection:** ALWAYS wear the provided UV protective glasses when operating the flashlight to prevent eye damage. DO NOT look directly into the UV light source.
- **Skin Protection:** Avoid prolonged direct exposure of UV light to skin.
- **Children:** Keep the flashlight out of reach of children. This is not a toy.
- **Flammable Materials:** Do not use the flashlight near flammable liquids or gases.
- **Heat:** The flashlight may generate heat during prolonged use. Handle with care.

## 10. Warranty and Support

For warranty information, technical support, or inquiries regarding spare parts, please refer to the product packaging or contact DARKBEAM customer service directly. Information regarding software updates is not available.