

## koulate DX6

# koulate DX6 USB Rechargeable Quad LED Jade Appraisal Flashlight User Manual

Your guide to operating and maintaining your DX6 flashlight for precise jewelry and gemstone appraisal.

## 1. INTRODUCTION

Thank you for choosing the koulate DX6 USB Rechargeable Quad LED Jade Appraisal Flashlight. This device is designed for detailed examination of jewelry, gemstones, and other materials, offering multiple light sources for comprehensive appraisal. Please read this manual thoroughly before use to ensure proper operation and longevity of your device.

### Safety Information

- Do not look directly into the LED light when it is active, as it may cause eye strain or damage.
- Keep the device away from water and excessive moisture. This product is not water-resistant.
- Store in a cool, dry place when not in use.
- Keep out of reach of children.

## 2. PRODUCT OVERVIEW

The koulate DX6 flashlight features a durable 304 stainless steel and duralumin alloy construction, housing four distinct LED light sources and a large-capacity rechargeable battery. Its dual-headed design allows for versatile use.

### Key Features:

- **Quad LED Light Sources:** White light (strong/weak), Light Yellow (strong/weak), 365nm UV light, and 395nm UV light.
- **USB Rechargeable:** Built-in 18650 lithium battery (3200mAh capacity) with USB charging.
- **Durable Construction:** Made from high-quality stainless steel and aluminum alloy.
- **Power Protection:** Features overload and excessive discharge protection.

- **Compact and Portable:** Designed for easy carrying and use.



*Figure 2.1: The koulate DX6 Flashlight. This image displays the overall design of the flashlight, highlighting its dual-ended structure and the central control panel with buttons and a USB port.*

### **3. SETUP**

#### **Charging the Device:**

1. Locate the USB charging port on the side of the flashlight's central body.
2. Connect the provided USB cable to the flashlight and to a compatible USB power source (e.g., power bank, laptop, USB wall adapter).
3. The indicator light will show the charging status. Ensure the device is fully charged before first use for optimal battery life.
4. The flashlight is equipped with power protection to prevent overcharging and excessive discharge.

## Intelligent independent dual switches design

## Delicate feel and convenient operation



Figure 3.1: Detail of the control panel. This image provides a close-up view of the flashlight's central section, clearly showing the two control buttons and the USB charging port.

## 4. OPERATING INSTRUCTIONS

The DX6 flashlight features two independent switches for controlling different light sources. The top switch controls the white and yellow lights, while the bottom switch controls the UV lights.

### Switching Light Modes:

- 1. White Light / Yellow Light:** Press the **top button** repeatedly to cycle through:
  - White Light (Strong)
  - White Light (Weak)
  - Light Yellow (Strong)
  - Light Yellow (Weak)
  - Off
- 2. UV Light (365nm / 395nm):** Press the **bottom button** repeatedly to cycle through:
  - 365nm UV Light
  - 395nm UV Light
  - Off

## Four light source identification flashlight



Figure 4.1: Four light source identification. This diagram illustrates the four distinct light sources available on the flashlight: white light, yellow light, UV light 395nm, and UV light 365nm.

### Using for Appraisal:

- **White Light:** Ideal for observing the internal texture and clarity of jade and other gemstones. The strong white light helps reveal fine details and inclusions.
- **Light Yellow:** Useful for examining specific color variations and subtle characteristics in certain stones where white light might be too harsh.
- **UV Lights (365nm & 395nm):** Essential for detecting fluorescence in gemstones, identifying treated stones, and verifying currency. Different UV wavelengths can reveal distinct reactions.

The most important thing to appreciate jade is to look at the internal texture of the jade. The more the light gathers, the stronger the effect will be

White light: The texture is clear, suitable for jade without skin or carved.



Amber rough under normal light



Observe the texture of rough amber stone under white light



Emerald Rough Stone under Normal Light



Observe the light transmission effect of jade under white light

*Figure 4.2: Jade appraisal with white light. This image demonstrates how white light is used to observe the internal texture and light transmission effects of jade, showing examples of amber and emerald rough stones.*



*Figure 4.3: Flashlight in use for appraisal. A hand holds the DX6 flashlight, directing its beam onto a jade stone, illustrating practical application.*

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*Video 4.1: DX4 Jade Appraisal Light Detector Lamp. This video demonstrates the functionality of the flashlight, showcasing its various light modes and their application in jade appraisal.*

## 5. MAINTENANCE

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### Cleaning:

- Wipe the flashlight body with a soft, dry cloth.
- For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying.
- Do not use abrasive cleaners or solvents, as these can damage the finish.

### Battery Care:

- Recharge the battery regularly, even if not in frequent use, to maintain battery health.

- Avoid completely draining the battery before recharging.
- The device has built-in protection against overload and excessive discharge, but proper charging habits extend battery life.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flashlight does not turn on.	Battery is depleted or not charged.	Connect the flashlight to a USB power source and charge fully.
Light output is dim.	Low battery or selected weak light mode.	Recharge the battery. Cycle through light modes to select a stronger setting.
UV lights not working.	Incorrect button pressed or internal fault.	Ensure you are pressing the <b>bottom button</b> for UV modes. If issue persists after charging, contact customer support.
Device gets hot during use.	Normal operation for high-power LEDs.	This is generally normal. If it becomes excessively hot or uncomfortable to hold, discontinue use and allow it to cool.

## 7. SPECIFICATIONS

Feature	Detail
Item Type	Flashlight
Material	304 Stainless Steel, Duralumin Alloy
Light Bead	4 LED Beads
Light Source Types	White (Strong/Weak), Light Yellow (Strong/Weak), 365nm UV, 395nm UV
Battery Type	18650 Rechargeable Lithium Battery
Battery Capacity	3200mAh
Charging Method	USB Charging
LED Life	Up to 100,000 hours
Voltage	3.7 Volts
Water Resistance Level	Not Water Resistant
Dimensions (D x W x H)	5.59"D x 1.1"W x 1.1"H
Included Components	1 x Flashlight, 1 x USB Cable

## 8. WARRANTY AND SUPPORT

The koulate DX6 Flashlight comes with a standard manufacturer's warranty. For specific warranty details, returns, or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.