

Nitecore EA81

Nitecore EA81 Cree XHP50 Searchlight Flashlight User Manual

Model: EA81

1. INTRODUCTION

Thank you for choosing the Nitecore EA81 Cree XHP50 Searchlight Flashlight. This powerful and durable flashlight is designed for various applications, including border security, search and rescue operations, and general outdoor use. Featuring a cutting-edge Cree XHP50 LED, the EA81 delivers an impressive 2150 lumens of white light, providing an extended-range beam. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your EA81 flashlight.

2. PRODUCT OVERVIEW

The Nitecore EA81 is engineered for high performance and reliability. Key features include:

- Utilizes a CREE XHP50 LED for maximum output up to 2150 lumens.
- High efficiency circuit board provides up to 810 hours runtime.
- Boasts a peak beam intensity of 53,300cd and a throw distance up to 462 meters.
- Five brightness levels and three special modes to select from.
- A micro-textured reflector offers wide angle lighting.
- Features Advanced Temperature Regulation (ATR) technology.
- Direct access to ultralow and turbo modes.
- Innovative dual switch for user-friendly interface.
- Integrated power indicator light displays remaining battery power.
- Reverse polarity protection.
- Constructed from aerospace grade aluminum alloy with HAlI military grade hard-anodized finish.
- Waterproof in accordance with IPX-8 (two-meter submersible) and 1.5 meters impact resistance.



Figure 2.1: The Nitecore EA81 Cree XHP50 Searchlight Flashlight.



Figure 2.2: Nitecore EA81 held comfortably in hand, demonstrating its ergonomic design.



Figure 2.3: The Nitecore EA81 illuminating a dark area, showcasing its powerful beam.

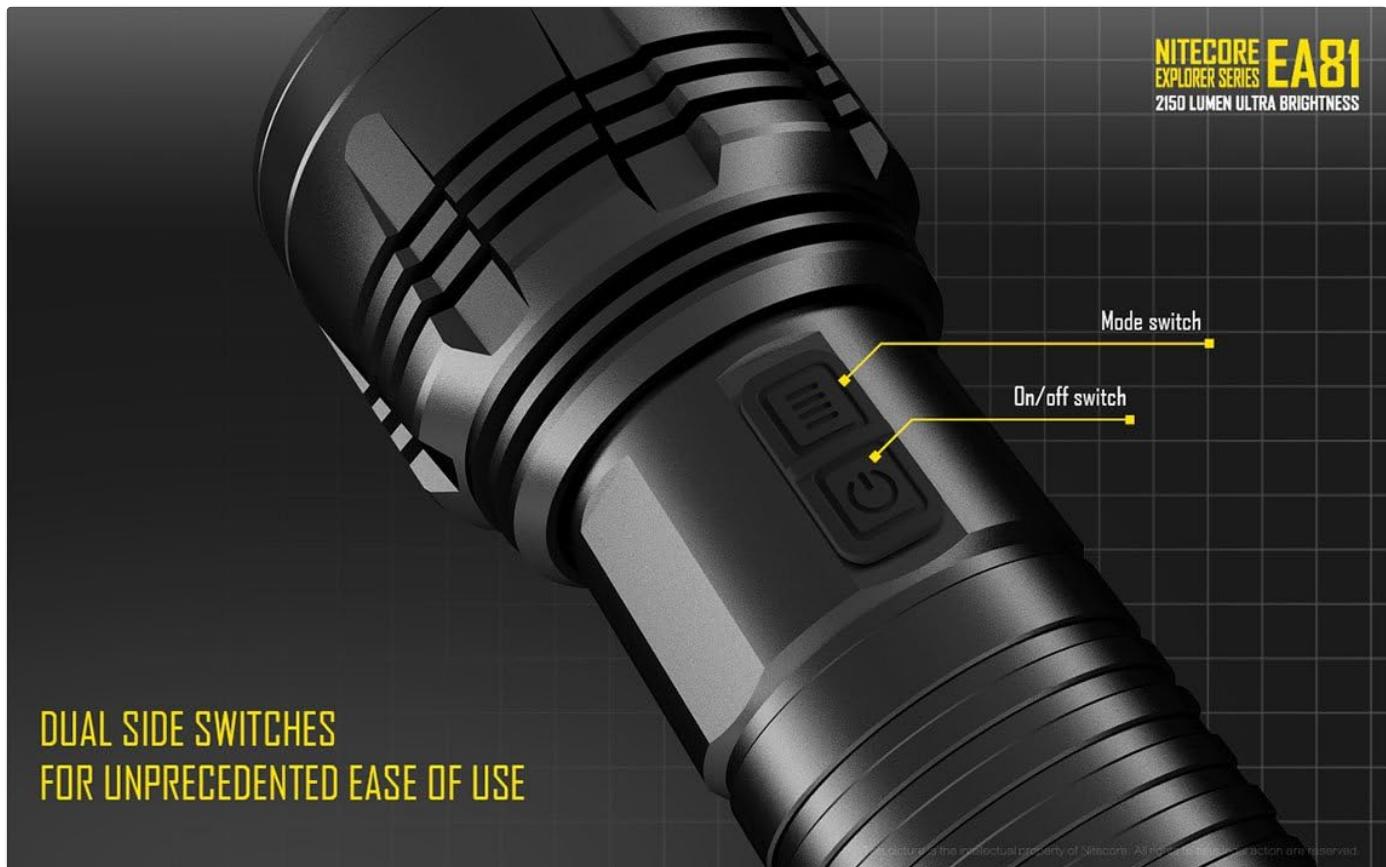
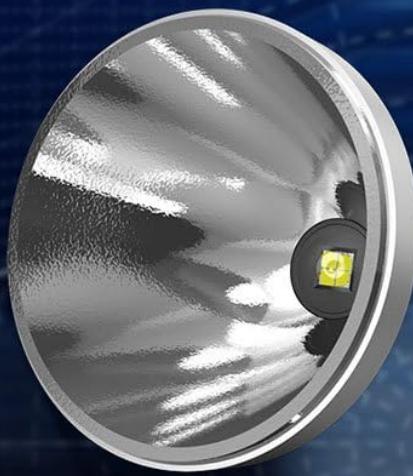


Figure 2.4: Close-up of the dual side switches on the Nitecore EA81, designed for intuitive control.

INTEGRATED MICRO-TEXTURED REFLECTOR
OFFERS WIDE ANGLE LIGHTING



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Figure 2.5: The integrated micro-textured reflector of the Nitecore EA81, designed for wide-angle lighting.

3. SETUP

3.1 Battery Installation

The Nitecore EA81 requires 8 AA batteries for operation.

1. Unscrew the tail cap of the flashlight by turning it counter-clockwise.
2. Insert 8 AA batteries according to the polarity markings (+/-) inside the battery compartment. Ensure correct orientation to prevent damage.
3. Screw the tail cap back on clockwise until it is securely tightened.

IMPORTANT WARNING: DO NOT USE RECHARGEABLE BATTERIES ON THIS LIGHT! Using rechargeable batteries or certain alkaline batteries may lead to leakage and damage to the flashlight. Always use high-quality, non-rechargeable AA batteries and inspect them regularly.

3.2 Initial Check

After installing batteries, briefly press the power button to ensure the flashlight turns on. If it does not, check battery orientation and ensure the tail cap is fully tightened.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To turn on the flashlight, press the On/Off switch (lower switch) until it clicks.
- To turn off the flashlight, press the On/Off switch again until it clicks.

4.2 Brightness Levels

The EA81 features five brightness levels: Ultralow, Low, Mid, High, and Turbo.

- With the light on, press the Mode switch (upper switch) repeatedly to cycle through the brightness levels in ascending order: Ultralow → Low → Mid → High → Turbo.
- The flashlight will memorize the last used brightness level (except for Turbo and Ultralow) and will turn on in that mode next time.

4.3 Direct Access Modes

The EA81 provides quick access to the lowest and highest output levels.

- Instant Turbo (2150 lumens):** With the light turned off, hold the Mode switch for more than one second.
- Instant Ultralow (1 lumen):** With the light turned off, hold the On/Off switch for more than one second.



Figure 4.1: Illustration of direct access to Ultralow and Turbo modes using the dual switches.

4.4 Special Modes (Strobe, SOS, Location Beacon)

The EA81 has three concealed special modes for emergency or signaling purposes.

- With the light on, press and hold the Mode switch for more than one second to activate Strobe mode.
- Once in Strobe mode, press the Mode switch again to cycle through SOS and Location Beacon modes.
- To exit special modes, briefly press the Mode switch. The flashlight will return to the previously used brightness level.

4.5 Advanced Temperature Regulation (ATR)

The EA81 incorporates ATR technology, which dynamically adjusts output performance according to its internal temperature. This prevents overheating and prolongs the lifespan of the flashlight. When the flashlight heats up, the output may automatically decrease to maintain a safe operating temperature.

4.6 Power Indicator Light

The integrated power indicator light, located beneath the switches, displays the remaining battery power.

- When the battery level is above 50%, the indicator light will flash once every two seconds.
- When the battery level is below 50%, the indicator light will flash rapidly.
- When the battery level is critically low, the indicator light will flash very rapidly, indicating that batteries should be replaced soon.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the flashlight body with a soft, damp cloth. For the lens, use a lens cleaning cloth and solution to avoid scratches. Keep the threads of the tail cap clean and lubricated with silicone grease to ensure smooth operation and maintain waterproofing.

5.2 Battery Care and Storage

To prevent battery leakage and potential damage to the flashlight:

- Always remove batteries from the flashlight if it will not be used for an extended period.
- Inspect batteries regularly for any signs of leakage or corrosion. Replace them immediately if any issues are observed.
- Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures.
- As previously stated, **DO NOT USE RECHARGEABLE BATTERIES** with this device.

5.3 O-Ring Replacement

The EA81 comes with a spare O-ring. If the original O-ring around the tail cap becomes damaged or worn, replace it to maintain the flashlight's waterproof rating. Lubricate the new O-ring with silicone grease before installation.

6. TROUBLESHOOTING

If you encounter issues with your Nitecore EA81, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Flashlight does not turn on.	Batteries inserted incorrectly. Batteries are depleted. Tail cap is loose. Corroded battery contacts.	Check and correct battery polarity. Replace with new, non-rechargeable AA batteries. Tighten the tail cap securely. Clean battery contacts with a clean cloth.
Light output is dim or flickers.	Low battery power. Loose head or tail cap. Overheating (ATR activated).	Replace batteries. Ensure head and tail cap are fully tightened. Allow the flashlight to cool down.

Problem	Possible Cause	Solution
Battery leakage observed.	Use of incompatible batteries (e.g., rechargeable). Defective or old alkaline batteries. Batteries left in flashlight for too long.	Immediately remove all batteries. Clean the battery compartment thoroughly with a cotton swab dipped in vinegar (for alkaline leaks) or rubbing alcohol. Ensure only high-quality, non-rechargeable AA batteries are used. Remove batteries during extended storage.
Cannot switch modes.	Switches are dirty or obstructed. Internal electronic issue.	Clean the area around the switches. If the problem persists, contact Nitecore customer support.

7. SPECIFICATIONS

Detailed specifications for the Nitecore EA81 flashlight are provided below:

Feature	Value
Brand	Nitecore
Model Number	EA81
Light Source Type	LED (Cree XHP50)
Maximum Output	2150 Lumens
Peak Beam Intensity	53,300cd
Throw Distance	Up to 462 meters
Runtime	Up to 810 hours (Ultralow mode)
Power Source	8 x AA batteries (non-rechargeable)
Material	Aerospace grade aluminum alloy
Finish	HAlII military grade hard-anodized
Waterproof Rating	IPX-8 (2 meters submersible)
Impact Resistance	1.5 meters
Length	193 mm / 7.6 in
Head Size	60 mm / 2.36 in
Weight	282 g / 9.95 oz (without batteries)
Included Components	Holster, Lanyard, Spare O-ring

EA81 SPEC.					
FLI STANDARD	TURBO	HIGH	MID	LOW	ULTRALOW
	2150 Lumens	1200 Lumens	460 Lumens	80 Lumens	1 Lumen
	1 h 45 min	2 h 30 min	7 h	32 h	810 h
	462m (Beam Distance)				
	53300cd (Peak Beam Intensity)				
	1.5m (Impact Resistant)				
	IPX-8, 2m (Waterproof and Submersible)				
The above data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FLI using 8 x 12V 2450mAh AA batteries under laboratory conditions. The data may vary slightly during real-world use due to battery type, individual usage habits and environmental factors.					

Figure 7.1: Official specifications table for the Nitecore EA81, detailing performance metrics.

8. WARRANTY AND SUPPORT

Nitecore products are known for their quality and durability. While specific warranty details may vary by region and retailer, Nitecore typically offers a warranty period for their flashlights, often cited as 5 years for manufacturing defects. For detailed warranty information, technical support, or service inquiries, please visit the official Nitecore website or contact your authorized Nitecore dealer.

Official Nitecore Website: www.nitecore.com

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This manual is for informational purposes only. Specifications are subject to change without notice.

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	<p>KRUPS Espresseria Automatic EA80/EA81 User Manual</p> <p>Comprehensive guide to operating and maintaining the KRUPS Espresseria Automatic coffee machine, series EA80 and EA81. Learn about preparation, cleaning, descaling, and troubleshooting.</p>
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Recommended models : TM28, TM38, MH23, TM26GT, **EA81**, R40, EC4SW, HC33,
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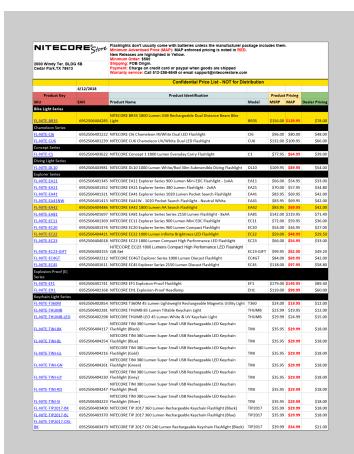
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