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Nitecore P20iX

Nitecore P20iX Tactical Flashlight User Manual

Brand: Nitecore | **Model:** P20iX

1. INTRODUCTION AND OVERVIEW

The Nitecore P20iX is a high-performance tactical flashlight designed for various applications including law enforcement, military use, outdoor activities, and emergency situations. This powerful device boasts a 4000-lumen output and a throw distance of up to 241 yards, making it an ideal tool for illumination in demanding environments.

Key features include a dual switch tail cap for single-hand operation and quick access to brightness adjustments and strobe function, USB-C recharging capability, and a durable anodized aluminum construction. The P20iX is part of a power bundle that includes two NL2150HPi batteries (one preinstalled, one backup), an NTH20 holster, a USB-C charging cable, a lanyard, a clip, and a LumenTac organizer.



Figure 1: Nitecore P20iX Power Bundle, including the flashlight, two NL2150HPI batteries, USB-C cable, and holster.

2. SETUP

2.1 Package Contents

Verify that all items are present in your package:

- Nitecore P20iX Tactical Flashlight
- Two NL2150HPI 5000mAh Batteries (one preinstalled, one backup)
- NTH20 Holster
- USB-C Charging Cable
- Lanyard
- Clip
- LumenTac Organizer

Power Accessories



2x NL2150HPi
LumenTac Organizer

One Pre-installed, one backup

Figure 2: Included accessories: NL2150HPi batteries and LumenTac Organizer.

2.2 Battery Installation

The P20iX uses NL2150HPi 21700 Lithium-Ion batteries. Ensure correct polarity when inserting batteries. The flashlight comes with one battery preinstalled and one as a backup.

1. Unscrew the tail cap of the flashlight.
2. Insert the NL2150HPi battery with the positive (+) end facing towards the head of the flashlight.
3. Screw the tail cap back on securely.

2.3 Charging the Battery

The P20iX features a USB-C charging port for convenient and fast recharging. Do not attempt to use the P20iX to charge CR123/ICR123 batteries.

1. Locate the USB-C charging port cover on the flashlight body.
2. Open the cover to expose the USB-C port.
3. Connect the included USB-C charging cable to the flashlight and a power source (e.g., USB wall adapter, computer USB port).
4. The charging indicator will show the charging status. Once fully charged, disconnect the cable and close the port cover to ensure water and dust resistance.

ULTIMATE DUAL TAIL SWITCH DESIGN



Figure 3: Close-up of the USB-C charging port on the Nitecore P20iX.

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Video 1: An overview of the Nitecore P20iX Flashlight, demonstrating its features including charging and operation.

3. OPERATING INSTRUCTIONS

3.1 Dual Tail Switch Operation

The P20iX features a dual tail switch design for intuitive single-hand control:

- **Tactical Tail Switch:** Provides momentary-on and constant-on functions.
- **MODE Button:** Used for output adjustment and instant access to STROBE/TURBO modes.



Figure 4: Illustration of the dual tail switch design on the Nitecore P20iX, highlighting the Tactical Tail Switch and MODE Button.

3.2 Brightness Modes and Strobe

The P20iX offers multiple brightness levels and a specialized strobe function:

- **6 Brightness Modes:** Ranging from Ultralow (2 lumens) to Turbo (4000 lumens).
- **Strobe Mode:** Instantly accessible by pressing and holding the MODE button. The non-linear strobe patterns are designed for disorienting effects.



Figure 5: Diagram illustrating the two user modes: Daily Mode (Ultralow, Low, Mid, High, Higher, Turbo, Strobe) and Tactical Mode (Turbo, High, Mid, Low, Strobe).

3.3 Memory Function

The flashlight features a memory function that recalls the last used brightness level or mode when reactivated, allowing quick access to your preferred setting.

TECHNICAL DATA



Using a 5,000mAh Li-ion Battery:

FL1 STANDARD	TURBO	HIGHER	HIGH	MID	LOW	ULTRALOW	STROBE
4,000 Lumens	1,700 Lumens	850 Lumens	300 Lumens	50 Lumens	2 Lumens	2m (Impact Resistance)	4,000 Lumens
*30min	2h	2h 30min	7h 15min	38h	350h		
221m	145m	103m	60m	25m	5m		
12,200cd	5,250cd	2,670cd	920cd	150cd	5cd		
						IP68, 2m (Waterproof and Submersible)	

Note: The stated data is measured in accordance with the international flashlight testing standard ANSI/PLATO FL 1-2019, using 1 x Li-ion battery (5,000mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.

* The runtime of TURBO is tested without the temperature regulation.

Using 2 x CR123 Batteries:

FL1 STANDARD	HIGH	MID	LOW	ULTRALOW	STROBE
1,060 Lumens	300 Lumens	50 Lumens	2 Lumens	1,060 Lumens	
1h	3h 30min	14h	120h		
116m	60m	25m	5m		
3,360cd	920cd	150cd	5cd		
				2m (Impact Resistance)	
				IP68, 2m (Waterproof and Submersible)	

Note: The stated data is measured in accordance with the international flashlight testing standard ANSI/PLATO FL 1-2019, using 2 x CR123 lithium batteries (1,700mAh) under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.

These images are for guide purpose only, actual result may vary depending on ambient factors. They are the intellectual property of Nitecore. All rights to take legal action are reserved.

Figure 6: The memory function allows the flashlight to recall the last used brightness level or mode.

3.4 NTH20 Holster

The included NTH20 holster is a hard, durable accessory compatible with tactical belts and MOLLE systems, providing secure and convenient carrying for your P20iX flashlight.



Figure 7: The NTH20 holster designed for the Nitecore P20iX, shown attached to a tactical belt.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Nitecore P20iX flashlight.

- Cleaning:** Regularly clean the threads and O-rings with a clean cloth. Apply a thin layer of silicone grease to the O-rings periodically to maintain water resistance.
- Battery Care:** Store batteries in a cool, dry place. If the flashlight will not be used for an extended period, remove the batteries to prevent leakage.
- Charging Port:** Keep the USB-C charging port cover securely closed when not charging to prevent dust and water ingress.

5. TROUBLESHOOTING

If you encounter issues with your Nitecore P20iX, try the following troubleshooting steps:

- **Flashlight not turning on:**

- Ensure the battery is inserted with correct polarity.
- Check if the battery is fully charged.
- Tighten the tail cap securely. A loose tail cap can prevent electrical contact.

- **Dim or flickering light:**

- The battery may be low. Recharge the battery.
- Clean the battery contacts and the flashlight's internal contacts with a cotton swab dipped in rubbing alcohol.

- **Charging issues:**

- Ensure the USB-C cable is properly connected to both the flashlight and the power source.
- Try a different USB-C cable or power adapter.
- Verify the power source is active.

If problems persist after attempting these steps, please contact Nitecore customer support or the retailer for further assistance.

6. SPECIFICATIONS



Figure 8: Technical data table for Nitecore P20iX, showing performance with 5000mAh Li-ion battery and 2 x CR123 batteries.

Feature	Detail
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Feature	Detail
Brand	Nitecore
Model Number	P20iX
Light Source Type	LED (4 x CREE XP-L2 V6 LEDs)
Max Brightness	4000 Lumens
Max Throw Distance	241 Yards (221 meters)
Power Source	Battery Powered (NL2150HPI Lithium Ion)
Battery Type	21700 Lithium Ion (NL2150HPI)
Max Runtime	350 hours (on Ultralow mode)
Material	Anodized Aluminum
Water Resistance Level	IP68 (2 meters submersible)
Impact Resistance	2 meters
Product Dimensions	6.26"D x 1.28"W x 1.1"H (159mm x 32.6mm x 28.5mm)
Item Weight	4.76 Ounces (135g)
Special Features	Rechargeable (USB-C), Dual Tail Switch, Strobe Ready, Memory Function, Stainless Steel Impact Bezel

7. WARRANTY AND SUPPORT

Nitecore products are typically covered by a warranty against defects in materials and workmanship. For detailed warranty information, including duration and terms, please refer to the official Nitecore website or contact their customer service directly.

For technical support, product inquiries, or warranty claims, please visit the official Nitecore website or contact the authorized dealer from whom you purchased the product. Keep your purchase receipt as proof of purchase for warranty purposes.

Online Resources:

- [Visit the Nitecore Store on Amazon](#)
- Refer to the official Nitecore website for the most up-to-date information and support.

