

Nitecore nitecore-mh40-pro

Nitecore MH40 PRO Ultra Bright Long Range Hunting Flashlight User Manual

Model: MH40 PRO

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Nitecore MH40 PRO Ultra Bright Long Range Hunting Flashlight. Please read this manual thoroughly before operation to ensure optimal performance and longevity of your device.



Figure 1: Nitecore MH40 PRO Flashlight with included accessories. This image shows the flashlight, the NBP100R battery, USB-C charging cable, remote switch, and holster.

PRODUCT OVERVIEW AND FEATURES

The Nitecore MH40 PRO is a high-performance flashlight designed for long-range illumination, featuring a UHi 40 MAX LED and advanced optical system. It is suitable for various activities including search, patrolling, caving, and search and rescue operations.

- **Max Output:** 3,500 Lumens
- **Max Beam Distance:** 1,300 Meters
- **Max Beam Intensity:** 423,000 cd
- **Max Runtime:** 62 hours
- **LED:** NiteLab UHi 40 MAX LED
- Equipped with a NITECORE NBP100R rechargeable Li-ion battery pack (10,000mAh).
- Features a USB-C charging port.
- Includes a wireless remote switch for versatile control.
- IP68 rated for waterproof and dustproof performance.

NITECORE®

MH40 Pro

Ultra Bright Long Range Hunting Flashlight

UHi LED Inside



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Figure 2: The MH40 PRO flashlight shown with its wireless remote switch, highlighting its long-range capability.

New Upgrades New Adventures



UHi LED



3,500 Lumens



10,000mAh
Li-ion Battery Pack



Wireless
Remote Switch



Low Power
Vibration Indication

Figure 3: Visual representation of key upgrades including UHi LED, 3,500 lumens output, 10,000mAh Li-ion battery pack, wireless remote switch, and low power vibration indication.

SETUP

1. Battery Installation and Charging

The MH40 PRO comes with a NITECORE NBP100R rechargeable Li-ion battery pack. This battery pack fits snugly inside the flashlight and can also serve as an emergency power supply.

1. Unscrew the tail cap of the flashlight.

2. Insert the NBP100R battery pack with the positive (+) terminal facing towards the head of the flashlight.
3. Screw the tail cap back on securely.
4. To charge, connect the USB-C charging cable to the port on the battery pack (accessible when removed from the flashlight) or directly to the flashlight's charging port if available (information suggests battery pack has the port). Connect the other end to a USB power source.
5. The power indicator beneath the mode button will flash to show charging status.

The MH40 PRO can also be powered by two 21700 batteries (not included) as an alternative power supply.



Figure 4: The NBP100R 10,000mAh Li-ion battery pack, which provides extended runtime and features a USB-C charging port.

2. Wireless Remote Switch Setup

The included wireless remote switch provides convenient control of the flashlight. It can be attached using various methods:

- **Hook-and-Loop Fastener:** Stick the wireless remote switch on any desired surface.
- **Picatinny Rail Mounts (Optional):** The remote switch can be easily mounted on a Picatinny rail for tactical use.
- **Hook-and-Loop Straps:** Fasten the wireless remote switch flexibly to various objects.



Figure 5: Demonstrates the various ways to attach the wireless remote switch, including hook-and-loop fastener, Picatinny rail mounts, and hook-and-loop straps.

OPERATING INSTRUCTIONS

1. Basic Operation

- **Turning On/Off:** Use the tail switch. A light press provides momentary-on, while a full press provides constant-on.
- **Brightness Levels:** While the flashlight is on, short press the mode button to cycle through brightness levels (Low, Mid, High, Turbo).
- **Mode Memory:** The flashlight features an intelligent mode memory function, automatically accessing the previously memorized brightness level or STROBE Mode (SOS and BEACON excluded) when reactivated.

2. Special Modes

- **STROBE Mode:** This mode uses randomly changing frequencies for stronger dizzying effects. Refer to the product specifications for activation.
- **SOS Mode:** For emergency signaling.
- **BEACON Mode:** For location signaling.

3. Power Indication

- A power indicator beneath the mode button flashes to show the remaining battery power.
- The flashlight vibrates every 10 seconds when the battery falls below 10%, reminding users to recharge timely.

4. Advanced Temperature Regulation (ATR)

The MH40 PRO incorporates an Advanced Temperature Regulation (ATR) module. This module adjusts the output performance according to the internal temperature of the flashlight, ensuring optimal performance and preventing overheating.

Highly Efficient Constant Circuit (Non-PWM)

The constant brightness beam without flashing guarantees a comfortable visual experience.

Non-PWM PWM



Figure 6: Illustration of the highly efficient constant current circuit (non-PWM) which provides a stable and comfortable visual experience without flashing.

MAINTENANCE

1. 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 waterproof integrity.
- Clean the lens with a soft, clean cloth. Avoid abrasive materials.

2. Storage

- When storing the flashlight for an extended period, remove the battery to prevent leakage.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.

3. Water and Dust Resistance

The MH40 PRO is IP68 rated, meaning it is waterproof and dustproof. It can be submerged in water up to 2 meters.

- Ensure all caps and covers are securely tightened before exposing the flashlight to water or dusty environments.
- After exposure to saltwater, rinse the flashlight with fresh water and wipe it dry.



Figure 7: The MH40 PRO flashlight submerged in water, illustrating its IP68 waterproof rating, capable of submersion up to 2 meters.

TROUBLESHOOTING

If you encounter issues with your Nitecore MH40 PRO, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Flashlight does not turn on.	Low battery, improperly installed battery, loose tail cap.	Charge the battery. Ensure the battery is inserted correctly with positive (+) terminal towards the head. Tighten the tail cap securely.
Light output is dim or flickers.	Low battery, dirty contacts, loose components.	Recharge the battery. Clean battery contacts and flashlight terminals. Ensure all parts are securely tightened.
Flashlight gets hot quickly.	Operating in Turbo mode for extended periods, high ambient temperature.	The ATR module will automatically reduce output to prevent overheating. Switch to a lower brightness level if necessary. Ensure proper ventilation.
Remote switch not responding.	Battery in remote switch low (if applicable), out of range, interference.	Check remote switch battery. Ensure remote switch is within effective range of the flashlight. Try moving away from sources of interference.

If the problem persists after trying these steps, please contact Nitecore customer support.

SPECIFICATIONS

Feature	Detail
Max Output	3,500 Lumens

Feature	Detail
Max Beam Distance	1,300 Meters
Max Beam Intensity	423,000 cd
Max Runtime	62 h 0 m / 2.58 d
LED	NiteLab UHi 40 MAX LED
Reflector	SMO
Battery	1 x NBP100R (10,000mAh) or 2 x 21700
Special Modes	Location Beacon, SOS, STROBE
Beam Color	White Light
Length	256 mm / 10.08 in
Head Size	65 mm / 2.56 in
Weight	270 g / 9.52 oz
Waterproof Rating	IP68 (2 meters submersible)
Impact Resistance	1 meter
Material	Aero-grade aluminum alloy, HA III military-grade hard-anodized finish

Technical Data (Runtime and Intensity)

The following tables detail the runtime and intensity specifications based on battery type:

Technical Data

Using the NITECORE NBP100R Li-ion Battery Pack:

FL1 STANDARD							1m IP68, 2m (Waterproof and Submersible)
TURBO	3,500 Lumens	*45min	1,300m	423,000cd			
HIGH	1,300 Lumens	4h 15min	920m	214,000cd			
MID	400 Lumens	13h	490m	60,490cd			
LOW	80 Lumens	62h	220m	12,530cd			
STROBE	3,500 Lumens	—	—	—			
BEACON	3,500 Lumens	—	—	—			
SOS	3,500 Lumens	—	—	—			

Note: The stated data is measured in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019, using NITECORE NBP100R (10,000mAh) 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 21700 Li-ion Batteries:

FL1 STANDARD							1m IP68, 2m (Waterproof and Submersible)
TURBO	2,000 Lumens	*1h	900m	203,000cd			
HIGH	1,200 Lumens	4h 15min	800m	160,000cd			
MID	400 Lumens	15h	490m	60,490cd			
LOW	80 Lumens	65h	220m	12,530cd			
STROBE	2,000 Lumens	—	—	—			
BEACON	2,000 Lumens	—	—	—			
SOS	2,000 Lumens	—	—	—			

Note: The stated data is measured in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019, using 2 x 21700 Li-ion batteries (6,000mAh) 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.

Figure 8: Detailed technical data table showing brightness levels, runtime, beam distance, and peak beam intensity for both NBP100R Li-ion Battery Pack and 2 x 21700 Li-ion Batteries.

PACKAGE CONTENTS

The Nitecore MH40 PRO package includes the following items:

- MH40 Pro Flashlight
- Wireless Remote Switch
- Hook-and-Loop Fastener
- Hook-and-Loop Strap x 2
- Picatinny Rail Mount x 2 (optional)
- NITECORE NBP100R Li-ion Battery Pack (10,000mAh)
- USB-C Charging Cable
- Spare O-ring
- Holster
- Lanyard

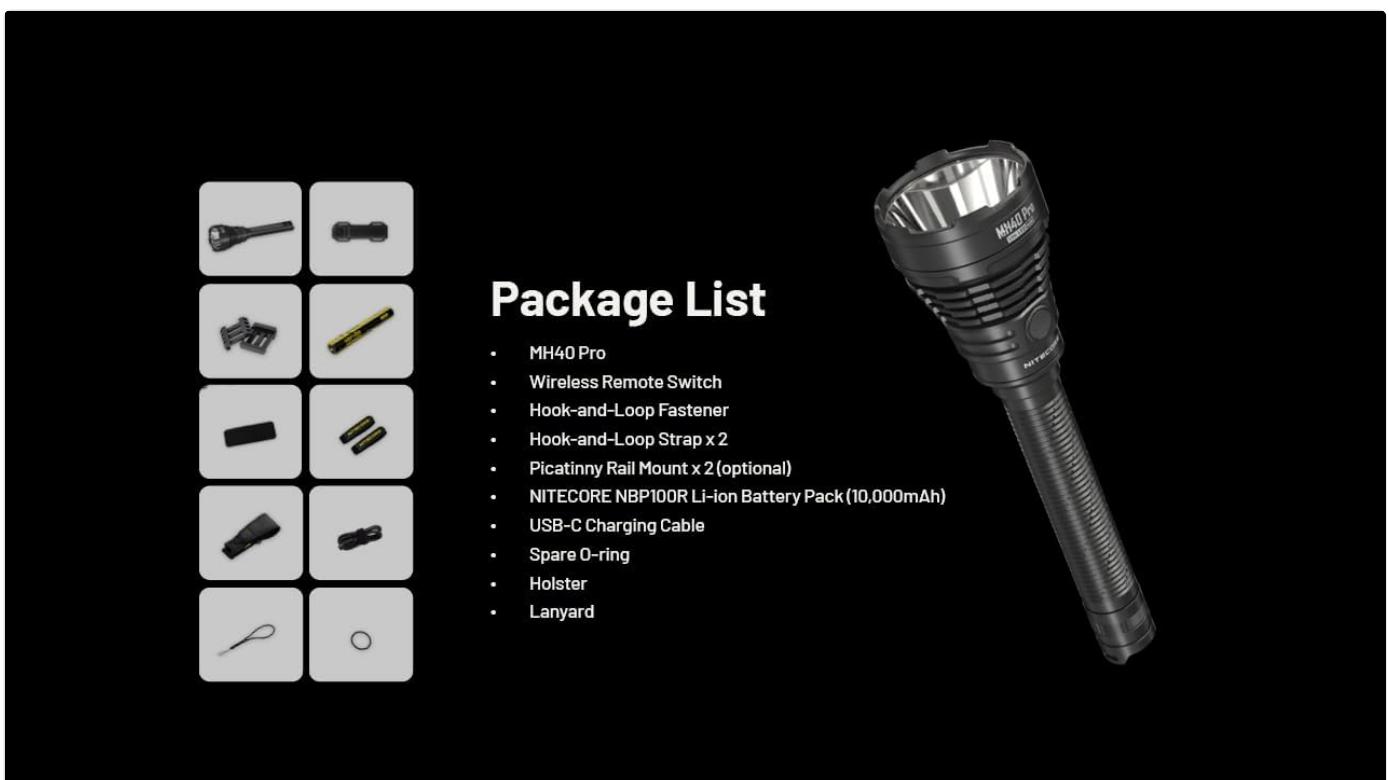


Figure 9: Visual representation of all items included in the Nitecore MH40 PRO package.

WARRANTY AND SUPPORT

The Nitecore MH40 PRO comes with a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included in your package or visit the official Nitecore website.

For technical support, troubleshooting assistance, or warranty claims, please contact Nitecore customer service through their official website or the retailer from whom you purchased the product.

Manufacturer: SYSMAX Innovations Co., Ltd

Related Documents

	<p>NITECORE MH40S Ultra Long Range Flashlight User Manual and Specifications</p> <p>Detailed user manual and specifications for the NITECORE MH40S Ultra Long Range Flashlight, featuring 1500 lumens, 1500m throw, 21700 battery compatibility, USB-C charging, and a wireless remote switch.</p>
	<p>NITECORE MH40GTR Flashlight User Manual and Specifications</p> <p>Comprehensive guide to the NITECORE MH40GTR flashlight, covering features, specifications, operating instructions, charging, maintenance, and warranty information. Includes details on its CREE XP-L HI V3 LED, 1200 lumens output, 1004m beam distance, and dual-fuel capability.</p>
	<p>Nitecore NU25 / NU25 UL Dual Beam USB-C Rechargeable Headlamp User Manual</p> <p>User manual for the Nitecore NU25 and NU25 UL dual beam USB-C rechargeable headlamps. Details features, specifications, charging, operation modes (spotlight, floodlight, red light, SOS, beacon), power indication, warnings, and warranty.</p>
	<p>NITECORE TM03/TM03 CRI User Manual: Features, Operation, and Specifications</p> <p>Comprehensive user manual for the NITECORE TM03 and TM03 CRI tactical flashlights, detailing features, operating instructions, brightness levels, modes, temperature regulation, precautions, and warranty information.</p>

Documents - Nitecore – nitecore-mh40-pro

Nitecore MH40 Pro – Uživatelský manuál

Přehled produktu
Nitecore MH40 Pro je výkonná svítilna s dlouhym dosahem, ideální pro profesionál použit, jako je pítr a záchrana, bezpečnostní operace a komunikace. Využívá LED diodu UH1 40 MAX s výkonem 3500 lumen a dosahem až 1300 m. Je kompatibilní s nabíjecími bateriemi NITECORE a kompatibilní s akumulátorem NITECORE a kapacitou 10 000 mAh, nebo s externím nabíječkou. Výkonnostní hodnoty a bezpečnostní funkce včetně výkonného výkonu a robustní konstrukce je MH40 Pro poskytuje nejenom pro profesionál použit.

Technické parametry

- LED UH1 40 MAX
- Maximální výkon: 3500 lumen
- Dosah až 1300 m
- Baterie: NBP1000 (10 000 mAh) nebo 2x 21700
- Nabíječka: U55-C (pouze pro NBP1000)
- Dobu nabíjení: přibližně 3 hodiny (40 mAh) (40 min) 3V/3A (adapto)
- Rezervní dílna: 256 mm, průměr klásky: 4 mm, průměr rukojeť: 26,2 mm, průměr konce: 27 mm
- Velikost: 417 g (včetně baterie)
- Ochrana proti vodě: IP68 (pouze do 2 metrů)
- Ochrana proti výbuchu: IECEx

Rezervní svítilna a výzvánky

Případový akumulátor NBP1000:

Režim	Výkon (lumen)	Výdrž	Dosah (metry)	Intenzita (cd)
TURBO	3500	45 min	1300	433 000
HIGH	1200	4 h 15 min	1300	120 000
MID	400	11 h	490	60 400
LOW	80	62 h	220	12 590
STROBE	-	-	-	-
BEACON	3000	-	-	-
SCS	3000	-	-	-

Případový 2x 21700 baterie:

Režim	Výkon (lumen)	Výdrž	Dosah (metry)	Intenzita (cd)
TURBO	2000	1 h	900	323 000
HIGH	1200	4 h 15 min	900	100 000
MID	400	11 h	490	60 400
LOW	80	62 h	220	12 590
STROBE	2000	-	-	-
BEACON	2000	-	-	-