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Model: TA20 | Brand: NEXTORCH

1. INTRODUCTION AND OVERVIEW

The NEXTORCH TA20 is a high-performance, compact tactical flashlight designed for both professional and everyday use. It delivers up to 1,000 lumens of output with a beam distance of up to 210 meters, balancing powerful illumination with a mini, portable design. Weighing only 3.14 oz (without battery), it is suitable for various scenarios, from tactical operations to daily commuting.

Key features include a multi-functional design with tactical, duty, and lock modes, a ceramic glass breaker for emergency situations, and robust waterproof and impact-resistant construction.



2. SETUP

2.1 Battery Installation and Charging

The TA20 flashlight is powered by a rechargeable 16340 Li-ion battery (included) or can use a non-rechargeable CR123A low-temperature resistant battery. The included 16340 battery features a convenient Type-C charging port directly on the battery itself.

1. Unscrew the tail cap of the flashlight counter-clockwise to access the battery compartment.
2. Insert the 16340 Li-ion battery with the positive (+) end facing towards the flashlight head.
3. Screw the tail cap back on clockwise until secure.
4. To charge the 16340 battery, remove it from the flashlight. Connect a Type-C USB cable (included) to the port on the battery and plug the other end into a compatible USB power source. The battery's indicator light will show charging status (e.g., red for charging, blue for fully charged).

Type-C Direct Charge

Compatible with the non-rechargeable CR123A low temperature resistant battery and rechargeable 16340 Li-ion battery with Type-C port



Figure 2: The included 16340 battery with its integrated Type-C charging port.

Video 1: Official product video demonstrating the compact size, quick-draw holster compatibility, ceramic strike bezel, and various light modes of the NEXTORCH TA20 flashlight.

3. OPERATING INSTRUCTIONS

The NEXTORCH TA20 features a patented multi-functional design allowing for quick switching between three primary modes: Tactical, Duty, and Lock. This is achieved by rotating the barrel head of the flashlight.

3.1 Mode Selection

- **Lock Mode:** Rotate the barrel head to the 'LOCK' position. This mode prevents accidental activation, conserving battery life and ensuring the flashlight does not turn on unintentionally in a bag or pocket.
- **Duty Mode:** Rotate the barrel head to the 'DUTY' position. In this mode, a light press of the tail switch provides momentary-on. A full press turns the light on constantly. While on, light presses of the tail switch will cycle through the brightness levels: High (1000 lm), Medium (190 lm), and Low (25 lm).
- **Tactical Mode:** Rotate the barrel head to the 'TAC' position. In this mode, a light press of the tail switch provides momentary-on. A heavy press of the tail switch activates the Strobe mode (1000 lm). This mode is designed for rapid response and disorienting effects.

Tri-Setting Design

Tri-mode operation instantly switches between lock, tactical, and duty settings via rotating the flashlight head



Figure 3: The tri-setting design allows for quick mode changes by rotating the flashlight head.

3.2 Special Features

- **Variable Frequency One-Step Strobe:** Available in Tactical Mode, this feature provides instant access to a powerful strobe for self-defense or signaling.
- **Ceramic Glass Breaker:** The ultra-high hardness ceramic bead head, second only to diamond in hardness, can be used to quickly break car window glass for emergency rescue or tactical entry.
- **FR-1 Tactical Ring:** The included FR-1 tactical ring enhances grip and allows for flexible use, easy access, and hands-free operation in various scenarios.

Variable Frequency One-Step Strobe Take the Initiative

Classic TA30 series' dual-function tactical switch provides momentary-on with light pressure and strobe with heavy pressure in tactical mode



Figure 4: Demonstrating the variable frequency one-step strobe feature.

4. MAINTENANCE

To ensure the longevity and optimal performance of your NEXTORCH TA20 flashlight, regular maintenance is recommended.

- **Cleaning:** Wipe the flashlight body with a clean, soft cloth. For the lens, use a lens cleaning cloth to avoid scratches.
- **O-rings:** Periodically inspect the O-rings for wear and tear. Apply silicone grease to the O-rings and threads to maintain waterproof integrity.
- **Battery Care:** Store the battery in a cool, dry place when not in use. If storing for extended periods, charge the battery every 3-6 months to prevent deep discharge.
- **Waterproof Rating:** The TA20 is IPX8 rated (2 meters submersible), ensuring reliable operation in wet conditions. Always ensure the tail cap is fully tightened before exposing the flashlight to water.

Waterproof & Impact Resistant Reliable & Durable

IPX8 (2 m) submersible, 2 meter impact resistant. Strong and stable enough to handle the fickle tactical environments

IPX8 | **2m**
Submersible | Impact Resistant



Figure 5: The TA20 flashlight is designed to be waterproof and impact resistant for reliable performance.

5. TROUBLESHOOTING

If you encounter issues with your NEXTORCH TA20 flashlight, please refer to the following common troubleshooting steps:

- **Flashlight Not Turning On:**

- Check if the battery is properly inserted with correct polarity.
- Ensure the battery is charged.
- Verify the barrel head is not in 'LOCK' mode.
- Clean the battery contacts and tail switch spring with a clean cloth.

- **Intermittent Operation:**

- Tighten the tail cap and head of the flashlight firmly. Loose connections can cause intermittent power.

- Check for any debris or corrosion on the battery contacts or threads.

- **Dim Light Output:**

- The battery may be low; recharge it fully.
- Ensure the flashlight is not in a lower brightness mode (e.g., Low or Medium in Duty Mode).

If these steps do not resolve the issue, please contact NEXTORCH customer support for further assistance.

6. SPECIFICATIONS

Detailed technical specifications for the NEXTORCH TA20 Tactical Flashlight:

Feature	Value
Light Source Type	LED
White Brightness	1000 Lumens (High)
Beam Distance (High)	210 meters
Power Source	Battery Powered
Battery Type	1 Lithium Ion (16340) or CR123A
Material	Aluminum
Product Dimensions (L x W x H)	3.94" x 1.18" x 0.91"
Item Weight	3.14 Ounces (without battery)
Water Resistance Level	IPX8 (2 meters)
Impact Resistance	2 meters
Special Features	Rechargeable, Ceramic Glass Breaker, Multi-mode

ANSI / PLATO-FL1	Tactical Mode		Duty Mode			
	Momentary on	Tactical Strobe	High	Medium	Low	Strobe
 Light Output	1000 lm	1000 lm	1000 lm	190 lm	24 lm	1000 lm
 Run Time	—	—	1 h 15 min	2 h 30 min	24 h	—
 Beam Distance	—	—	210 m	85 m	30 m	—
 Beam Intensity	—	—	11028 cd	1808 cd	228 cd	—
 Impact Resistance	2 m					
 Submersible	IPX8, 2 m					
Weight and Dimensions	Weight: 89 g / 3.14 oz (Without battery)					
	Size: 100 mm (Length) × 30 mm (Head) × 23 mm (Diameter)					
Material	Light Source: LED					
	Aluminum alloy					
Battery	One 16340 or CR123A					

Figure 6: Detailed performance specifications based on ANSI/PLATO-FL1 standards.

7. WARRANTY AND SUPPORT

NEXTORCH is committed to providing high-quality products and excellent customer service.

7.1 Warranty Information

All NEXTORCH flashlights come with a five-year warranty. This warranty covers manufacturing defects and ensures your product performs as expected under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

If you have any questions about your NEXTORCH TA20 tactical flashlight, require technical assistance, or need to make a warranty claim, please do not hesitate to contact our professional support team. Contact information can typically be found on the product packaging or the official NEXTORCH website.

NEXTORCH, founded in 2005, is dedicated to innovation and manufacturing in the field of mobile lighting, providing professional equipment for public safety, law enforcement, outdoor, and other specialized fields. We have accumulated over 200 patents and are a member of PLATO, actively participating in the development and optimization of ANSI flashlight standards.

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