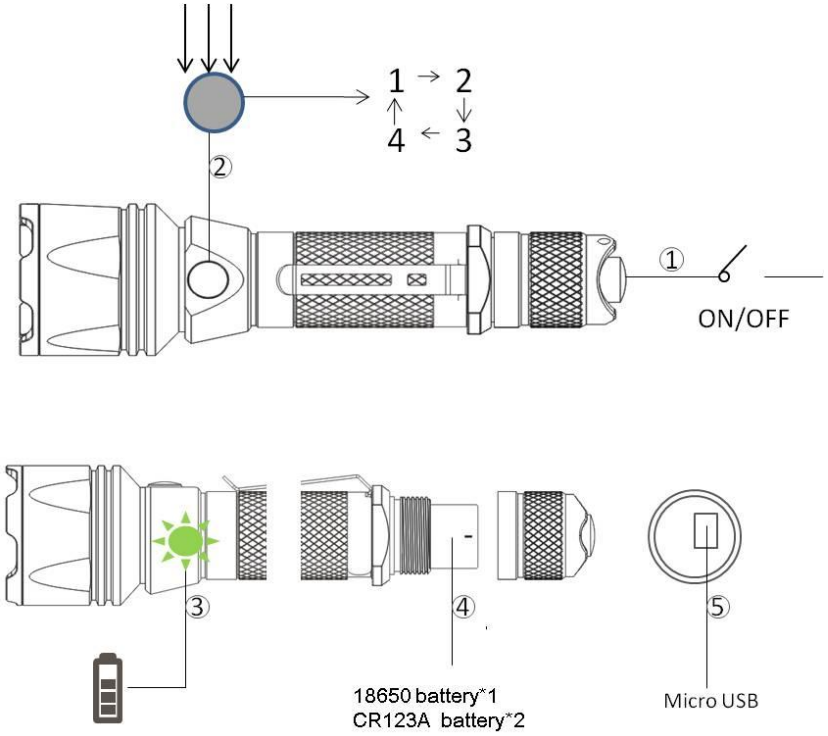
Fenix TK20R Flashlight



Technical Parameters

ANSI/PLATO FL1		Turbo	High	Med	Low	Strobe
Output		1000 Lumens	350 Lumens	150 Lumens	10 Lumens	1000 Lumens
Runtime	3500mAh	*2h	4h 20min	11h	160h	/
	2900mAh	*1h 40min	4h	10h 30min	135h	
Distance		310m	193m	126m	31m	/
Intensity		24,000cd	9,310cd	3,970cd	240cd	/
Impact Resistance		1m				

Waterproof	IP68, underwater 2m
Accessories	Holster, lanyard, spare O-ring, 2900mAh battery, USB charging cable

Notice: The above-mentioned parameters (lab-tested by Fenix using 3.6V/3500mAh and 3.6V/2900mAh 18650 rechargeable Li-ion battery) may vary between flashlights, batteries and environments.

*Due to the intelligent overheat protection, the runtime of Turbo is estimated.

- Uses Cree XP-L HI V3 LED with a lifespan of 50,000 hours
- Powered by one 18650 rechargeable Li-ion battery, and CR123A Lithium battery can be used in emergency
- 151.5mm Length x 25mm Body diameter x 34mm Head diameter
- 141 grams (excluding battery)
- Digitally regulated output maintains constant brightness
- Low-voltage warning reminds when battery replacement is needed
- Reverse polarity protection, to protect from improper battery insertion
- Overheat protection to avoid high temperature of the surface
- Tactical tail switch for momentary on and constant activation
- Functional side switch for output selection
- Made of durable aircraft-grade aluminum
- Premium type Ⅲ hard-anodized anti-abrasive finish
- Toughened ultra-clear glass lens with anti-reflective coating

Operation Instruction

The tail cap switch is the tactical switch, and the side button switch is the functional switch.

①ON/OFF

Tap the tactical switch to turn on the light momentarily, release it and the light will go out.
Fully press the tactical switch to turn on the light constantly, press once again the light to switch off the light.

②Output Selection

With the light on, single click the functional switch. The light will cycle through Turbo→Low→Med→High.

Strobe

With the light on, press and hold the functional switch for 0.5 seconds to activate Strobe, another single click the light will return to previously used General brightness level.

Intelligent Memory Circuit

The flashlight memorizes the last brightness level used in the General mode. The next time it is turned on, it will recall the previously used General brightness level.

Intelligent Overheat Protection

The light will accumulate a lot of heat when used at Turbo output level for extended periods. When the light reaches a temperature of 65℃ or above, the light will automatically step down by a few lumens to reduce temperature. When the temperature is reduced, the output will gradually return to the maximum brightness of the previously selected output level.

③Battery Level Indication

When the light is turned on, the battery level indicator around the side switch will display the battery status for 3 seconds.
Green light constant-on: sufficient
Red light constant-on: poor
Red light flashes: critical

When the voltage level drops below the preset level in working condition, the battery indicator is programmed to flash red to remind you of charging, and the flashlight will gradually downshift to Low output. To ensure normal use, the light will not turn off automatically and will work until the battery runs out completely.

④Charging

First plug the USB port of the charging cable into an electrical outlet, then connect the Micro USB port of the charging cable to the light. The indicator light will display red while charging, and will turn to solid green when fully charged. The normal charging time is about 3.5 hours. Recommended adaptor: 5V-2A.

Note:
1. Once charging is completed, be sure to close the anti-dust cover.
2. Charging with the light switched on is not recommended. Doing so may cause extended charging time or less fully charged battery.
3. Recharge a stored TK20R every four months to maintain optimum performance of the battery.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L18 Series	18650	3.7V	Recommended	√√
Fenix ARB-L2Series	18650	3.7V	Recommended	√√

Non-rechargeable Battery (Lithium)	CR123A	3V	Usable (No charging)	√
Rechargeable Battery (Li-ion)	18650	3.6V/3.7V	Cautious*	!
Rechargeable Battery (Li-ion)	16340	3.6V/3.7V	Cautious*	!
Rechargeable Battery ($LiFePO_4$)	18650	3.2V	Banned	×

Warning: 1. Do not mix batteries of different brands, sizes, capacities or types. Doing so may cause damage to the flashlight or the batteries being used.

*18650/16340 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Quality batteries with circuit protection will reduce the potential for combustion or explosion but cell damage or short circuiting are potential risks the user assumes.

⑤Battery Replacement

Unscrew the tail cap to insert the battery with the anode side (+) towards the light head, then screw the tail cap back on.

Usage and Maintenance

- Disassembling the sealed head can cause damage to the light and will void the warranty.
- Fenix recommends using excellent quality battery. If the light will not be used for an extended period, remove the battery, or the light could be damaged by electrolyte leakage or battery explosion.
- When the voltage level drops below the preset level, the flashlight is programmed to downshift to a lower brightness level until to Low output. When this happens in Low output mode, the flashlight blinks three times every five minutes to remind you to charge the light or replace the battery. To ensure normal use, the flashlight will not turn off automatically and will work till the battery runs out completely.
- Take out the battery to prevent accidental activation during storage or transportation.
- Long-term use can result in O-ring wear. To maintain a proper water seal, replace the ring with an approved spare.
- Periodic cleaning of the battery contacts improves the lamp's performance as dirty contacts may cause the lamp to flicker, shine intermittently or even fail to illuminate for the following reasons:
  A: The battery needs replacing.
  Solution: Replace battery (Ensure battery is inserted according to the manufacturer's specifications).
  B: The threads, PCB board contact or other contacts are dirty.
  Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.

If the above methods don't work, please refer to the warranty policy before contacting your authorized distributor.

Warning

The flashlight is a high-intensity lighting device capable of causing eye damage to the user or others. Avoid shining the flashlight directly into anyone’s eyes.