(English)Fenix PD45R ACE Flashlight

Technical Parameters

ANSI/ PLATO FL1	Turbo	Ultrahigh	High	Med	Low	Eco	Strobe
Output	3200 lumens	1400 lumens	600 lumens	300 lumens	100 lumens	30 lumens	3200 lumens
Runtime	2 hours 20 minutes*	3 hours 20 minutes	5 hours 30 minutes	9 hours 30 minutes	30 hours	57 hours	/
Distance	410 meters	252 meters	165 meters	118 meters	66 meters	36 meters	/
Intensity	41900 candela	15900 candela	6880 candela	3500 candela	1096 candela	327 candela	/
Impact Resistance	1 meter						
Submersible	IP68						

Note: The above specifications are from the results produced by Fenix through its laboratory testing using one Fenix ARB-L21-6000 rechargeable battery under the temperature of 21±3°C and humidity of 50% - 80%. The true performance of this product may vary according to different working environments and the actual battery used.

*The Turbo output is measured in total of runtime including output at reduced levels due to temperature or protection mechanism in the design.

Warning

◎Do NOT shine the light directly into the eyes of anyone!

◎All information provided in this manual is subject to change without prior notice.

◎Do NOT place this light in the reach of children!

◎Do NOT place light head near flammable objects, high temperatures can cause objects to overheat and become flammable/ignite!

◎Do NOT use the light in inappropriate ways such as holding the unit in your mouth, doing so could cause serious personal injury or death if the flashlight or internal battery fails!

◎This light will accumulate a significant amount of heat while operating, resulting in a high temperature of the flashlight shell. Pay close attention to avoid burns.

◎Turn off and lock the light or take out the battery to prevent accidental activation during storage or transportation.

◎The LED of this light is not replaceable; so the whole light will need to be replaced when the LED reaches the end of its lifespan.

Product Features

◎3200 lumens maximum output and 410 meters maximum beam distance.

◎Utilizes one Luminus SFT70-Gen2 cold white LED.

◎Innovative SET mode is built-in with several lighting modes to choose from.

◎Tactical tail switch and mode selector ring enable precise and swift selection of modes.

◎Lock mode avoids accidental activation.

◎Hidden USB Type-C charging port.

◎Powered by a replaceable 6000mAh battery.

◎All-metal CNC machined light body.

◎Compact size for easy carry.

◎Size: 6.21'' x 1.18'' x 1.02''/157.7 × 30 × 25.9 mm.

◎Weight: 7.07 oz/200.5 g (including battery).

Operating Instructions

On/off

Tap the tactical tail switch to momentarily turn on the light, release it and the light will go out.

Fully press the tactical tail switch to constantly turn on the light, and press it again to turn off the light.

Mode switching

Rotate the mode selector ring to cycle through General mode⇄Lock mode⇄SET mode.

Output selection

With the light switched on, rotate the mode selector ring to the General mode. Tap the tactical tail switch to cycle through Eco⇄Low⇄Med⇄High⇄Ultrahigh⇄Turbo.

SET mode defining

The SET mode is built-in with 6 option of different output settings, which can be selected based on different lighting demands.

1.Rotate the mode selector ring to “SET” to switch to the SET mode. After entering the SET mode, the number of blinks from the flashlight corresponds to the previously selected option number. For example, the flashlight will blink 6 times if Option 6 is the previously selected option, and the flashlight will blink 5 times if Option 5 is the previously selected option.

2.Fully press the tactical tail switch for option selection. The number of your presses corresponds to the currently selected option number. The flashlight will blink the same number of times as the currently selected option number to indicate this option is selected. For example, the flashlight will blink 6 times to indicate that Option 6 is selected if you fully press the tactical tail switch 6 times, and the flashlight will blink 5 times to indicate that Option 5 is selected if you fully press the tactical tail switch 5 times.

3. After the option selection is completed, the flashlight will automatically memorize the currently selected option of the SET mode. Rotate the mode selector ring to General mode to select the output based on the selected option. The output settings of all 6 options are listed below:

Mode	Turbo	Ultrahigh	High	Med	Low	Eco	Strobe
Output	3200 lm	1400 lm	600 lm	300 lm	100 lm	30 lm	3200 lm
Option 1		●					●
Option 2	●				●		●
Option 3	●		●			●	●
Option 4	●	●		●		●	●
Option 5	●	●	●		●	●	●
Option 6	●	●	●	●	●	●	●

Lock/unlock

1. With the light switched on, rotate the mode selector ring to “🔒” to lock the currently selected output. Pressing or tapping the tactical tail switch cannot change the output or turn off the light.

2. With the light switched off, rotate the mode selector ring to “🔒” to lock the tactical tail switch. Pressing or tapping the tactical tail switch cannot turn on the light.

3. Rotate the mode selector ring from “🔒” to any designated mode to unlock the tactical tail switch.

Strobe mode

With the light switched on, press and hold the tactical tail switch for 0.5 seconds to enter the Strobe mode. Tap or fully press the tactical tail switch to exit the Strobe mode.

Intelligent Memory Circuit

The light memorizes the previously used lighting mode and the previously used output level excluding Strobe. Each time it is turned on in General mode, the previously used output level will be recalled.

Battery Specifications

Type	Dimensions	Nominal voltage	Usability	
Fenix ARB-L21 Series	21700	3.6 V	Recommended	√√
Rechargeable Battery (Li-ion)	21700	3.6 V	Caution*	!
Battery without protection circuit (Li-ion)	21700	3.6 V	Banned	×

Warning:

1. Do not use batteries that are banned in this user manual.
2. Do not use batteries that lack any protection circuit.

*21700 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Using low-quality batteries or mishandling batteries (such as short-circuiting or overheating) could lead to combustion and jeopardize the safety of users and property. Any adverse effects resulting from the use of low-quality batteries are not covered by any Fenix warranty or liability. Using quality batteries with circuit protection will reduce the potential for combustion or explosion.

Battery Replacement

Unscrew the light body and insert the battery with the anode side (+) towards the light head, then screw the light body back on.

Charging

1. Loosen the light neck to reveal the USB Type-C charging port and battery level indicator, and connect the USB Type-C socket of the charging cable to the light.
2. The indicator will display red while charging, and will turn green when fully charged.
3. After charging is complete, be sure to tighten the light neck to maintain its dustproof and waterproof functionality for normal use.

Note:

1. The normal charging time of the included Fenix ARB-L21-6000 battery is about 3 hours from depleted to fully charged with an 18 W or above charging adapter.
2. Recharge a stored light every four months to maintain the optimum performance of the battery.
3. The light can not be operated while charging.

Battery Level Indication

Each time the light is turned on, the indicator will show the current battery level and will stay illuminated for 3 seconds.

Green light on: saturated 100% - 85%

Green light flashes: sufficient 85% - 50%

Red light on: poor 50% - 25%

Red light flashes: critical 25% - 1%

Note: This feature only works with a Fenix ARB-L21 Series 21700 rechargeable battery.

Intelligent Overheat Protection

The light will accumulate a lot of heat when used at Turbo output or Ultrahigh output for extended periods. When the light reaches a temperature of 60°C/140°F or above, the light will automatically step down a certain amount of lumens to reduce the temperature until Med output is reached. When the temperature drops below 60°C/140°F, the light will gradually recall the preset output level.

Low-voltage Warning

When the voltage level drops below 3.0 V, the light is programmed to downshift to a lower brightness level until Eco output is reached. When this happens in Eco output, the battery level indicator blinks red to remind you to recharge or replace the battery in a timely manner. To ensure normal use, the light will not turn off automatically and will work till the battery level runs out or the battery protection plate is triggered to stop discharging.

Note: This feature only works with a Fenix ARB-L21 Series 21700 rechargeable battery.

Usage and Maintenance

◎Disassembling the sealed head can cause damage to the light and will void the warranty.

◎Fenix recommends using an 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.

◎Lock the light, loosen the light body, or remove the battery to prevent accidental activation when the light is placed in a closed and flammable environment such as pockets and backpacks!

◎Long-term use can result in O-ring wear. To maintain a proper water seal, replace the O-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: Poor battery level.

Solution: Replace or recharge the battery (Ensure the battery is inserted according to the manufacturer’s specifications).

B: The contact or contact point of the battery or flashlight is dirty.

Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.

If the above methods don't work, please contact your authorized distributor.

INCLUDED

Fenix PD45R ACE flashlight, ARB-L21-6000 battery, Holster, Lanyard, 2 x Spare O-rings, USB Type-C charging cable, User manual, Warranty card