



**HM75R**  
**Power**  
**Extender**



# FENIX HM75R Power Extender Instruction Manual

[Home](#) » [FENIX](#) » FENIX HM75R Power Extender Instruction Manual 

## Contents

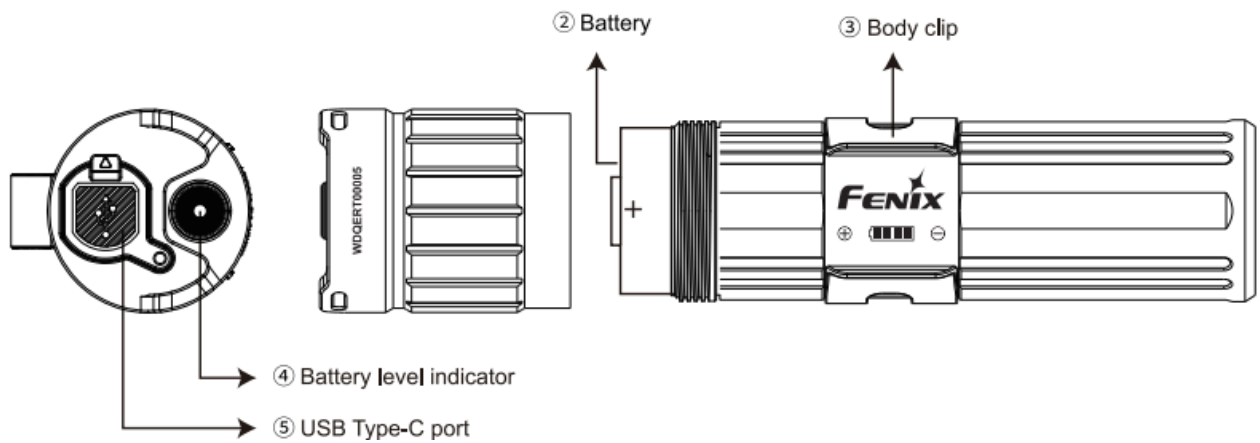
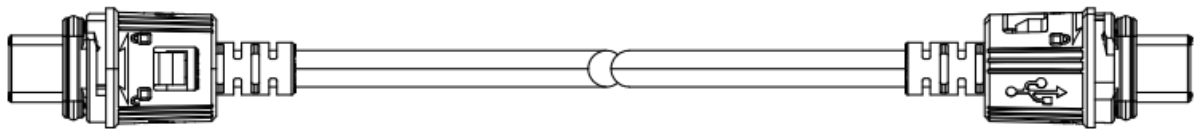
- 1 [FENIX HM75R Power Extender](#)
- 2 [Charging cable](#)
- 3 [Dimension](#)
- 4 [TECHNICAL PARAMETERS](#)
- 5 [PRODUCT FEATURES](#)
- 6 [OPERATING INSTRUCTIONS](#)
- 7 [BATTERY SPECIFICATIONS](#)
- 8 [BATTERY REPLACEMENT](#)
- 9 [CHARGING](#)
- 10 [POWER BANK FUNCTION](#)
- 11 [LIGHT LOAD DETECTION FUNCTION](#)
- 12 [USAGE AND MAINTENANCE](#)
- 13 [INCLUDED](#)
- 14 [Documents / Resources](#)
  - 14.1 [References](#)



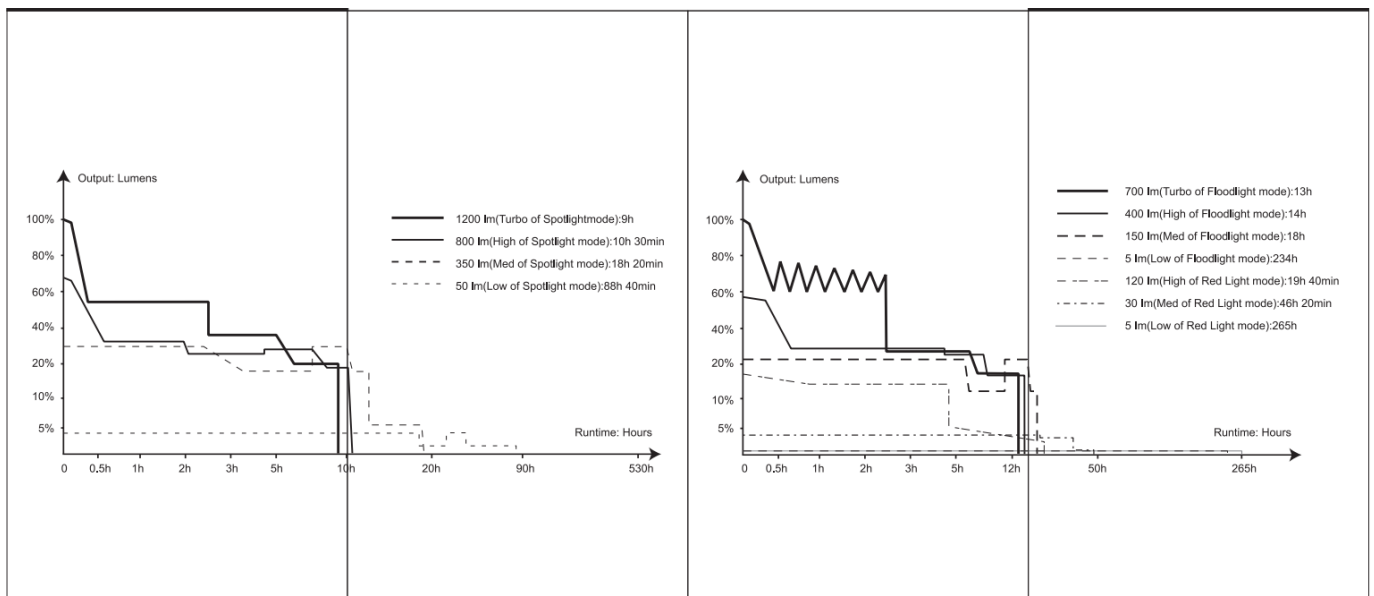
**FENIX HM75R Power Extender**








## Charging cable



## Dimension



## TECHNICAL PARAMETERS

ANSI/PLATO FL1	SPOTLIGHT MODE				FLOODLIGHT MODE				RED LIGHT MODE			
	TURBO	HIGH	MED	LOW	TURBO	HIGH	MED	LOW	HIGH	MED	LOW	FLASH
 OUTPUT	1200 lumens	800 lumens	350 lumens	50 lumens	700 lumens	400 lumens	150 lumens	5 lumens	120 lumens	30 lumens	5 lumens	5 lumens
 DISTANCE	9 hours	10 hours 30 minutes	18 hours 20 minutes	88 hours 40 minutes	13 hours	14 hours	18 hours	234 hours	19 hours 40 minutes	46 hours 20 minutes	265 hours	530 hours
 INTENSITY	190 meters	158 meters	101 meters	39 meters	48.5 meters	43 meters	25 meters	5 meters	16 meters	9 meters	4 meters	/
 IMPACT RESISTANCE					2 meters							
 SUBMERSIBLE					IP68							



## WARNING

- Do place this power extender out of the reach of children!
- Do NOT use the power extender in inappropriate ways such as biting in the mouth, to avoid personal injury or life threats when the power extender or internal battery fails! accidental.
- Activation of the connected head lame when the headlamp is packed in a closed and flammable environment such as pockets an

## PRODUCT FEATURES

- **Included** a Fenix ARB-L21-5000 V2.0 battery.
- **Can** act as a power bank in emergencies.
- **Quick-release** structure for various wearing ways.
- **Universal** USB Type-C port with inner waterproofing design.
- **Size:** 4.24"x 1.10"x 1.10"/107.7 × 28 × 28 mm.
- **Weight:** 4.73 oz/134 g (including battery).

## OPERATING INSTRUCTIONS

### Charging cable lockout function

- **Lock:** with the charging cable plugged in, rotate the two ends of the charging cable clockwise under the directional mark to lock the charging cable.
- **Unlock:** with the charging cable locked, rotate the two ends of the charging cable counterclockwise under the directional mark to unlock the charging cable.

### Turning on/off the power bank function

- Single-click the electronic switch to turn on/off the power bank function.
- While using other power sources to charge the Fenix HM75R headlamp, the actual brightness of the Turbo output and the High output of each lighting mode depends on the actual charging power.

## BATTERY SPECIFICATIONS

Type	Dimensions	Nominal voltage	Usability	
Fenix ARB-L21 Series	21700	3.6V	Recommended	√/√
Rechargeable Battery (Li-ion)	21700	3.6V	Caution*	!
Rechargeable Battery (Li-ion)	18650	3.6V	Banned	×

- 21700 Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Only using quality batteries with circuit protection will reduce the potential for combustion or explosion.
- Cell damage or short circuiting caused by using these types of batteries is considered user-induced damage and is not covered by any Fenix warranty or liability.
- Quality Li-ion battery with a protective circuit will reduce risks. A Fenix ARB-L21 Series battery is recommended.
- **Note:** The above specifications are from the results produced by Fenix through its laboratory testing using one Fenix ARB-L 18-3400 battery and one ARB-L21-5000 V2.0 battery and one ARB-L21-5000 V2.0 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.

## BATTERY REPLACEMENT

Unscrew the battery cover and insert the battery by the polarity marks, then screw the battery cover back on.

## CHARGING

1. Open the anti-dust cap to reveal the USB Type-C port and connect the
  - USB Type-C socket of the charging cable to the USB Type-C port of the power extender.
2. The indicator in the electronic switch will display red while charging and will turn green when fully charged.
3. Once charging is completed, be sure to close the anti-dust cap to maintain the dustproof and waterproof ability.

## POWER BANK FUNCTION

1. Open the anti-dust cap to reveal the USB Type-C port and connect the USB Type-C socket of the cable to the USB Type-C port of the power extender.
2. Single click the electronic switch to start discharging.
3. With the battery reinserted, the power extender will automatically begin discharging when connected to the headlamp and stop discharging when disconnected.
4. **Compatible fast-discharging protocols:** PD3.0/PD2.0, QC3.0/QC2.0, FCP, SFCP, PE2.0/PE1.1

## LIGHT LOAD DETECTION FUNCTION

- **On:** While discharging, press and hold the electronic switch for 3 seconds. battery level indicator will blink red three times, indicating that the light load detection function is activated.

- **Off:** While discharging, press and hold the electronic switch for 3 seconds, the battery level indicator will blink red eight times, indicating that the light load detection function is deactivated.
- This function is deactivated by default. You can use the power extender to charge low-current digital devices such as a fitness tracker with this function deactivated.

**Note:**

1. With the light load detection function activated, the power extender will automatically stop discharging when the headlamp is fully charged.
  - Reconnect the USB Type-C socket of the charging cable to the USB Type-C port of the power extender and click the electronic switch or re-insert the battery to restart discharging.
2. With the light load detection function deactivated, turn off the power bank function when the headlamp is fully charged to prevent unnecessary battery consumption.

**Battery level indication of power bank function**

- With the light load detection function deactivated: the battery level indicator blinks green once a second. If the battery voltage is under 3.2 V, the battery level indicator will blink red
- With the light load detection function activated: the battery level indicator blinks green once every 4 seconds. If the battery voltage is under 3.2 V, the battery level indicator will blink red.
- The power extender will automatically stop discharging if the battery voltage is under 3.0 V.

**BATTERY LEVEL INDICATION**

- While the power extender is not discharging, single click the electronic switch to haik ator big status, Sialely. or With ole carry operatic, the in again will last for 3 seconds.
- **Green light on:** 100% – 85%
- **Green light flashes:** 85% – 50%
- **Red light on:** 50% – 25%
- **Red light flashes:** 25% – 1%
- **Note:** This only works with a Fenix ARB-L21 Series battery.

**USAGE AND MAINTENANCE**

- Disassembling the sealed parts of the power extender can cause damage to the power extender and will void the warranty.
- Fenix recommends using an excellent-quality battery.
- If the power extender will not be used for an extended period, remove the battery, or the power extender could be damaged by electrolyte leakage.
- 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 power extender's performance as dirty contacts may cause the connected lamp to flicker, shine intermittently, or even fail to illuminate for the following reasons:
  - **A:** Poor battery level.

- **Solution:** Recharge or replace the battery (Ensure the 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 contact the distributor.

## INCLUDED

- Fenix HM75R power extender, USB-C to USB-C charging cable, ARB-L21-5000 V2.0 battery, 2 x Cable clips, Spare O-ring, User manual, Warranty card

## LIGHTING FOR EXTREMES

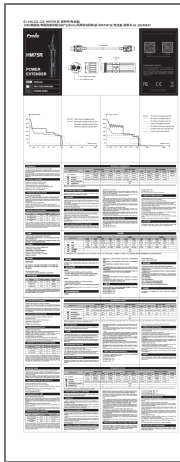


- “Follow” us for more information about Fenix.

## FENIXLIGHT LIMITED

- Tel: +86-755-29631163/83/93
- Fax: +86-755-29631181
- E-mail: [info@fenixlight.com](mailto:info@fenixlight.com)
- Web: [www.fenixlight.com](http://www.fenixlight.com)
- Address: 2F/3F, West of Building A, Xinghong Technology Park, 111 Shuiku Road, Fenghuanggang Community, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province, China

## Documents / Resources



[FENIX HM75R Power Extender](#) [pdf] Instruction Manual  
HM75R Power Extender, HM75R, Power Extender, Extender

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.