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Fenix HM65R-T V2.0

Fenix HM65R-T V2.0 Running Headlamp User Manual

Model: HM65R-T V2.0

Brand: Fenix

1. INTRODUCTION AND OVERVIEW

The Fenix HM65R-T V2.0 is a high-performance running headlamp designed for trail running and other outdoor activities. It features a powerful 1600-lumen white light and a warm white dual beam, offering versatile illumination for various conditions. The headlamp is USB-C rechargeable, lightweight, and built with durable magnesium alloy, ensuring reliability in challenging environments. Its comfortable headband with a two-way SPORT fit system provides a secure and easily adjustable fit.

Your browser does not support the video tag.

Official product review video providing a comprehensive overview of the Fenix HM65R-T V2.0 Running Headlamp, its features, and benefits for trail running.

2. PRODUCT COMPONENTS

The Fenix HM65R-T V2.0 headlamp package includes the following items:

- Fenix HM65R-T V2.0 Headlamp
- Headband
- USB-C Charging Cable
- ARB-L18-3400mAh Rechargeable Li-ion Battery (pre-installed)



The Fenix HM65R-T V2.0 headlamp, featuring its main body and adjustable red headband.

3. KEY FEATURES

3.1 Dual-Beam System

The HM65R-T V2.0 features both white and warm white light beams. The white light provides clear visibility for general trail conditions, while the warm white light (3000K) reduces eye strain and offers better penetration in foggy or rainy weather.

**1600 LUMENS
OUTPUT**
**CLEAR THE DARKEST
CORNERS ON ROADS**



The white light throws a maximum brightness of 1600 lumens at a beam distance of 170 meters. No matter how complicated the road condition is, the headlamp will always present you with a good vision.

 **170 meters**
beam distance



A runner navigating a dark, mossy trail, brightly illuminated by the powerful 1600-lumen white light beam of the Fenix HM65R-T V2.0 headlamp, reaching up to 170 meters.



PENETRATING WARM WHITE BEAM **ALL WEATHER APPLICABLE**

The warm white light features four output options*, which ensure a clear vision even in adverse weather. It also provides a balanced and soft beam for close-range lighting needs.

*The warm white light LED features a color temperature of 3000K, which provides better beam penetration in rain, snow, or fog.

A runner on a foggy trail at night, benefiting from the warm white light beam of the Fenix HM65R-T V2.0 headlamp, designed

to reduce eye strain in adverse weather.

3.2 Dual Top Switches

Two independent switches allow for simple and accurate operation, controlling the white and warm white lights separately. This design offers great simplicity and convenience during use.



DUAL TOP SWITCHES FOR SIMPLE AND ACCURATE OPERATION

Two independent switches separately control the white light and the warm white light, which offers great simplicity and convenience while on the run.

On/off
Press and hold either of the switches for 0.5 seconds.

Single click to select output

Mode switching

White light mode Single click → Warm white light mode
← Single click ←

Lockout function

Electronic lockout function: Press and hold two switches simultaneously for 3 seconds.
Physical lockout function: Protective cover

White light mode Warm white light mode

Detailed view of the Fenix HM65R-T V2.0 headlamp's dual top switches, allowing for simple and accurate operation of both white and warm white light modes, including a lockout function.

3.3 USB-C Rechargeable & Battery Indicator

The headlamp is equipped with a 3400mAh battery and can be charged via its built-in USB-C port. Power indicators provide real-time battery level information, ensuring you are aware of the remaining runtime. Once fully charged, it can run for over 600 hours on its lowest setting.



The Fenix HM65R-T V2.0 headlamp connected to a USB-C charging cable, highlighting its convenient and fast recharging capability.

TECHNICAL PARAMETERS

Size 3.15" × 1.84" × 1.37"/80 × 46.8 × 34.9 mm

Weight 4.94 oz/140 g (including battery and headband)

This data is from results produced by Fenix through its own laboratory testing. Actual results may vary slightly according to the measurement method of the specific industry performing said tests.

ANSI/ PLATO FL1	WHITE LIGHT			WARM WHITE LIGHT				SOS
	High	Med	Low	High	Med	Low	Eco	
OUTPUT	1600 lumens	400 lumens	130 lumens	800 lumens	400 lumens	130 lumens	5 lumens	5 lumens
RUNTIME	3 hours*	12 hours	24 hours	6 hours*	12 hours	24 hours	300 hours	600 hours
DISTANCE	170 meters	83 meters	49 meters	112 meters	82 meters	48 meters	10 meters	10 meters
INTENSITY	7353 candela	1715 candela	604 candela	3155 candela	1690 candela	577 candela	26 candela	26 candela
IMPACT RESISTANCE	2 meters							
SUBMERSIBLE	IP68							

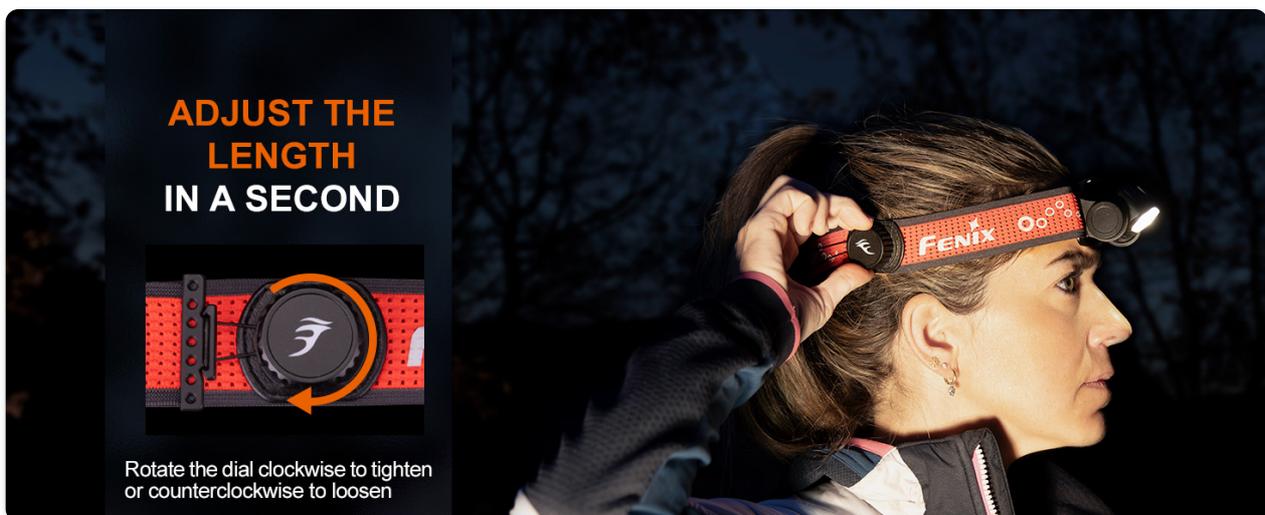
Note: According to the ANSI/PLATO FL1 standard, the above specifications are from the results produced by Fenix through its laboratory testing using the included Fenix ARB-L18-3400 battery under the temperature of 21±3°C and humidity of 50% - 80%. The true performance of this product may vary according to different working environments and the actual battery used.

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

The Fenix HM65R-T V2.0 headlamp's integrated LED battery indicators, providing real-time power level information to the user.

3.4 Comfortable Headband

The wide and reflective headband features a new two-way SPORT fit system fastener, allowing for easy, single-handed adjustment. This ensures a steady and comfortable fit, even during long periods of use.

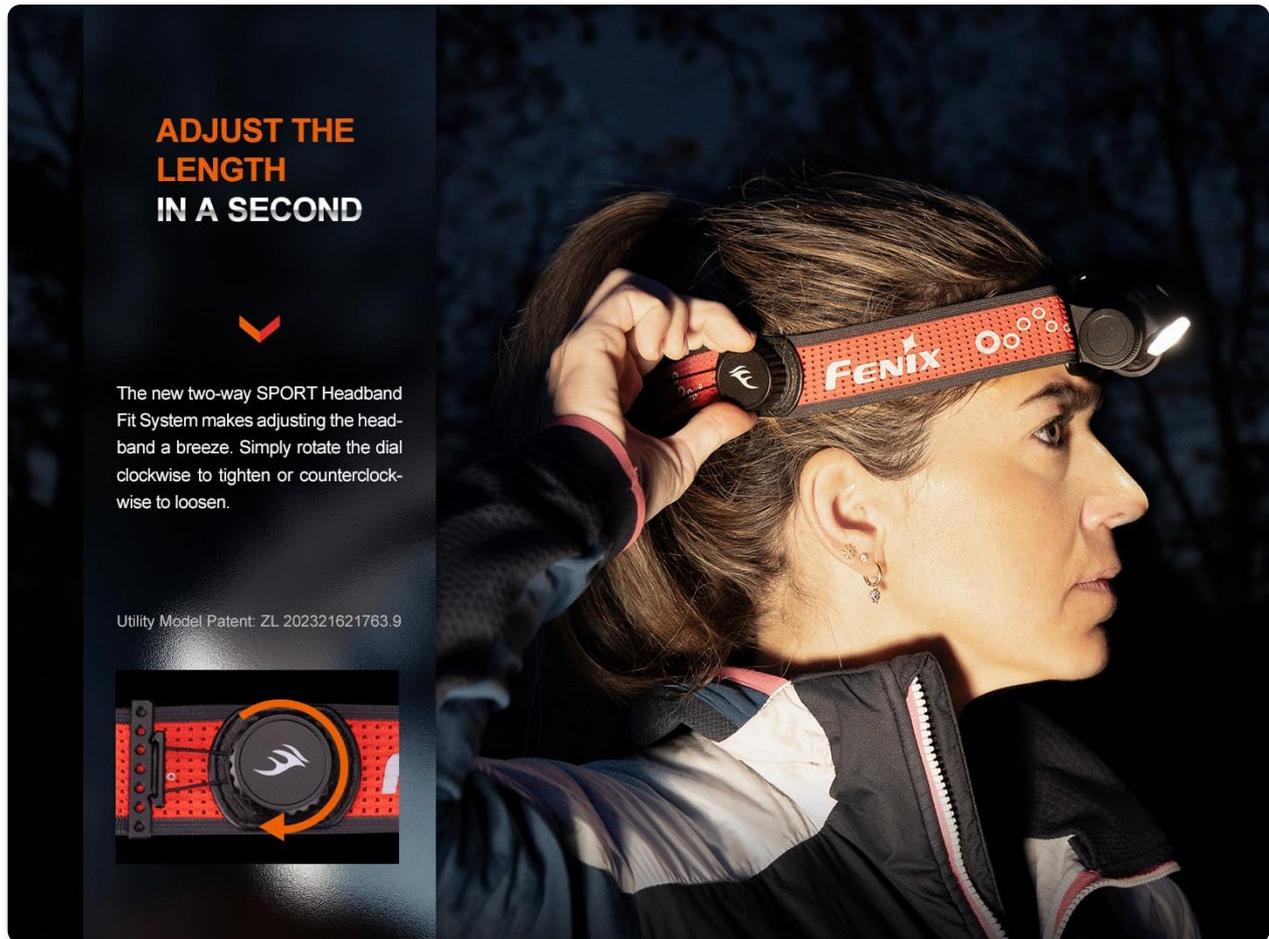


A woman adjusting the innovative two-way SPORT fit system on the Fenix HM65R-T V2.0 headlamp's headband, ensuring a secure and comfortable fit with a single hand.

3.5 Lightweight and Durable Construction

Constructed from magnesium alloy, the headlamp is 30% lighter than aluminum while maintaining exceptional

durability. It boasts an IP68 waterproof rating and impact resistance up to 2 meters, making it ready to withstand rough outdoor conditions.



ADJUST THE LENGTH IN A SECOND



The new two-way SPORT Headband Fit System makes adjusting the headband a breeze. Simply rotate the dial clockwise to tighten or counterclockwise to loosen.

Utility Model Patent: ZL 202321621763.9



The Fenix HM65R-T V2.0 headlamp resting in a hand, demonstrating its compact and lightweight design, made from durable magnesium alloy.

4. SETUP

4.1 Battery Installation

1. Unscrew the battery cap located on the side of the headlamp.
2. Insert the Fenix ARB-L18-3400mAh Li-ion battery with the positive (+) terminal facing inwards.
3. Alternatively, two CR123A batteries can be used. Ensure correct polarity.
4. Screw the battery cap back on tightly to ensure waterproof sealing.



Step-by-step illustration of how to correctly insert the Fenix ARB-L18-3400mAh battery into the HM65R-T V2.0 headlamp.

4.2 Headband Adjustment

To adjust the headband, simply rotate the dial on the back of the headband. Rotate clockwise to tighten for a secure fit, or counter-clockwise to loosen for comfort. The two-way SPORT fit system allows for quick and easy adjustments even while on the move.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **To Turn On:** Press and hold either the white light switch or the warm white light switch for 0.5 seconds.
- **To Turn Off:** Press and hold either active switch for 0.5 seconds.

5.2 Mode Switching

- **White Light Modes:** With the white light on, single-click the white light switch to cycle through Low → Med → High.
- **Warm White Light Modes:** With the warm white light on, single-click the warm white light switch to cycle through Eco → Low → Med → High.
- **Switching Between White and Warm White:** With either light on, single-click the inactive light switch to activate it. Both lights can operate independently.

5.3 Lockout Function

- **Electronic Lockout:** To prevent accidental activation, press and hold both switches simultaneously for 3 seconds. The headlamp will flash four times to indicate it is locked. To unlock, press and hold both

switches for 3 seconds again; the headlamp will flash and turn on.

- **Physical Lockout:** Utilize the protective cover over the switches to prevent accidental presses.

5.4 SOS Mode

To activate SOS mode, press either switch for 1.2 seconds when the headlamp is off, or from the warm white Eco mode. This will activate a flashing SOS signal for emergency situations.

6. SPECIFICATIONS

The following table outlines the key technical specifications of the Fenix HM65R-T V2.0 headlamp:



24-HOUR ULTRA-LONG RUNTIME
GET READY FOR OVERNIGHT TRAIL RUNNING

The 3400mAh battery provides up to 24 hours of runtime at 130-lumen Low output in white light mode or warm white light mode, sufficient for trail running races of varying distances.

*The 3400mAh battery is included with your purchase. The Fenix ARB-L18 series is recommended to ensure maximum functionality.

The image shows the Fenix HM65R-T V2.0 headlamp with its orange and black headband resting on a mossy rock. A large blue circular graphic with a white clock face and the number '24' is overlaid on the scene, with the word 'Hours' written below it. The background is a blurred forest scene.

A detailed table outlining the technical specifications of the Fenix HM65R-T V2.0 headlamp, including lumen output, runtime, beam distance, and light intensity for various white and warm white modes.

Feature	Description
White Brightness (Max)	1600 Lumens
Light Source Type	LED (SST40 White, OSRAM Warm White)
Power Source	Battery Powered (1 Lithium Ion battery included)
Battery Cell Composition	Lithium Ion (3400mAh)
Material	Magnesium Alloy
Item Weight	4.96 ounces (approx. 140g including battery and headband)

Feature	Description
Product Dimensions	1.37"D x 1.84"W x 3.15"H
Water Resistance Level	IP68 (Waterproof)
Impact Resistance	2 meters
Special Features	Adjustable Light Modes, Adjustable Strap, Durable, High Lumens, Rechargeable

7. MAINTENANCE

- **Cleaning:** Regularly clean the headlamp body and lens with a soft cloth. Avoid using abrasive materials or harsh chemicals.
- **Battery Care:** If the headlamp will not be used for an extended period, remove the battery to prevent leakage. Store the battery in a cool, dry place. Recharge the battery every four months to maintain optimal performance.
- **O-rings:** Inspect the O-rings regularly for wear and tear. Replace them if damaged to maintain the headlamp's waterproof rating. Lubricate O-rings with silicone grease periodically.

8. TROUBLESHOOTING

- **Headlamp not turning on:** Check if the battery is inserted correctly with the correct polarity. Ensure the battery is charged. Verify that the electronic lockout function is not activated.
- **Light is dim or flickering:** The battery may be low; recharge or replace it. Ensure the battery contacts are clean.
- **Charging issues:** Ensure the USB-C cable is properly connected to both the headlamp and a power source. Check if the power source is functioning correctly.
- **Water ingress:** Ensure the battery cap is tightly screwed on and the O-rings are intact and properly seated.

9. WARRANTY AND SUPPORT

The Fenix HM65R-T V2.0 headlamp comes with a limited warranty. For detailed warranty information, please refer to the warranty card included in your product packaging or visit the official Fenix website. For technical support, service, or replacement parts, please contact Fenix customer service through their official channels.

Online Support: www.fenixlight.com