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> [Fenix](#) /

> [Fenix HM65R-T V2.0 Running Headlamp Instruction Manual](#)

Fenix HM65R-T V2.0

Fenix HM65R-T V2.0 Running Headlamp Instruction Manual

Model: HM65R-T V2.0

Brand: Fenix

INTRODUCTION

Designed for trail running, the Fenix HM65R-T V2.0 provides 1600 lumens and a throw of up to 185 yards. It features white light and warm white dual beams, USB-C rechargeable, and a comfortable, adjustable headband. Made from magnesium alloy, it is lightweight and durable, with IP68 waterproof and 2-meter impact resistance.

WHAT'S IN THE BOX

- Headlamp
- Head Band
- USB-C Charging Cable
- Organizer

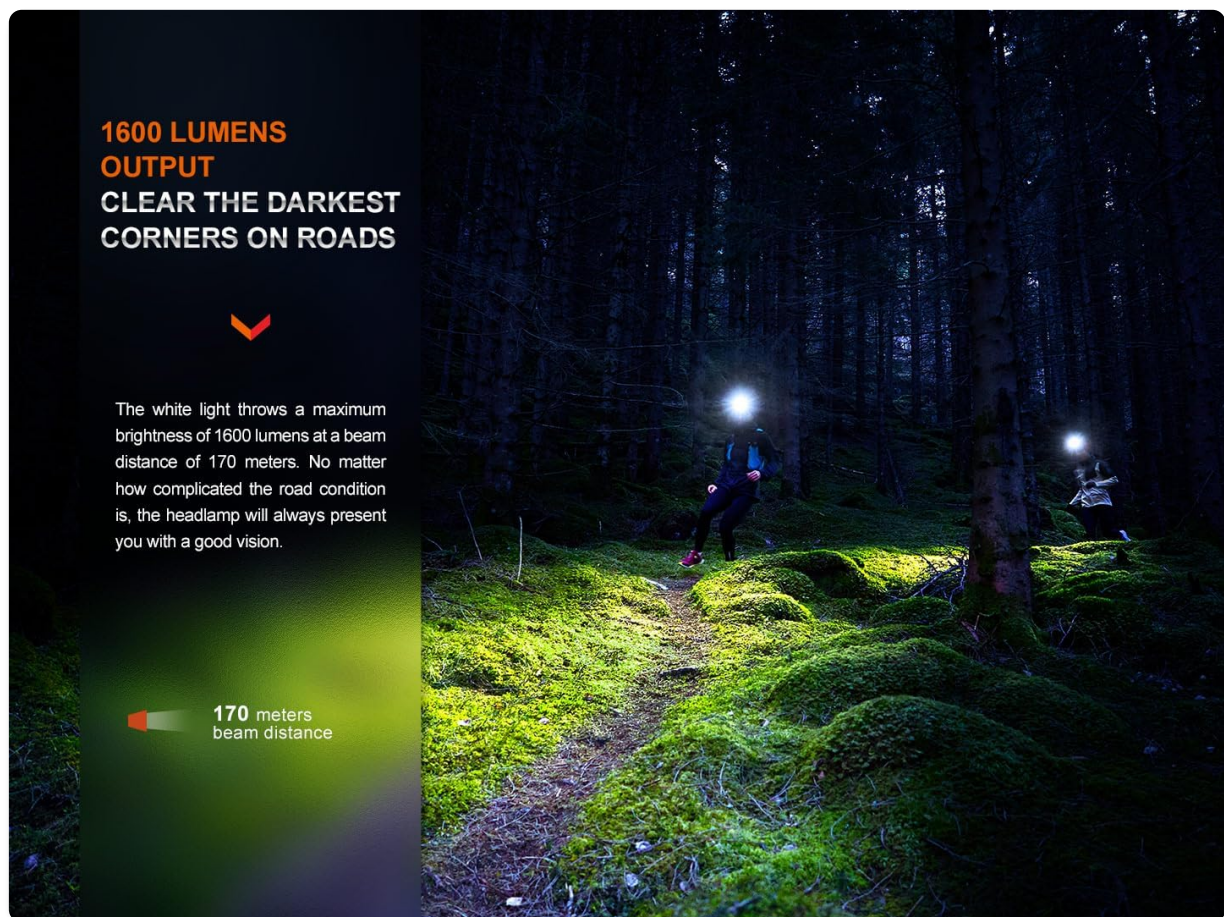


Fenix HM65R-T V2.0 Headlamp with included accessories: headlamp, USB-C cable, and organizer case.

FEATURES OVERVIEW

Dual-Beam Technology

- White light (SST40 White LED): Provides clear visibility for road conditions.
- Warm white light (OSRAM Warm White LED, 3000K): Reduces eye strain in foggy and rainy weather, offers better penetration in adverse conditions.



Person running on a trail at night illuminated by the warm white beam of the Fenix headlamp, showing its penetration through fog.

Unified Diffuser

The unified diffuser combines both LEDs for an evenly distributed light, concentrated in the middle, unlike previous models with distinct LED outputs.



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.

Close-up of the Fenix HM65R-T V2.0 headlamp showing the unified diffuser over the two LED lights.

Dual Top Switches

Two independent switches for simple and accurate operation. Separately control white and warm white lights.

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**

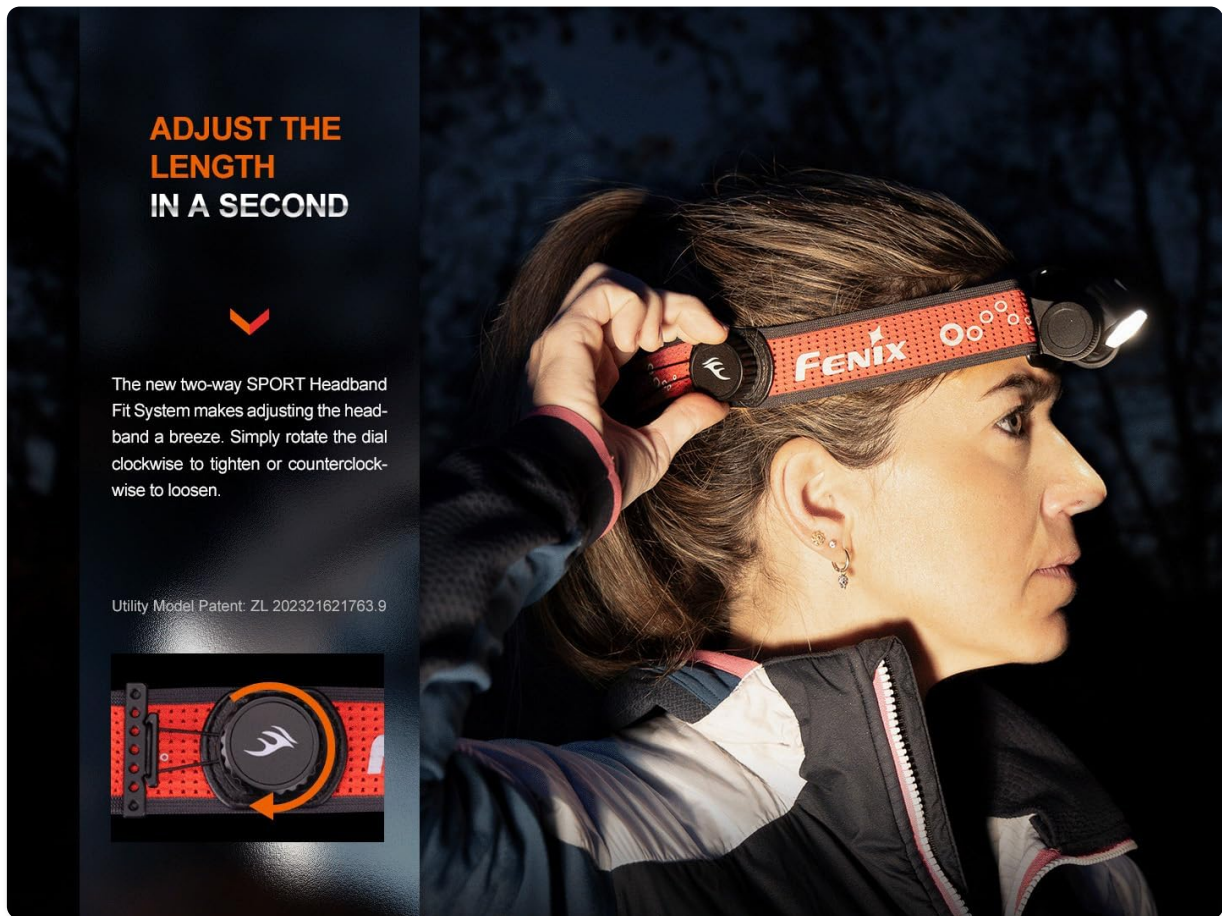
White light mode	Single click	Warm white light mode
	← Single click →	

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

Hands operating the dual top switches on the Fenix HM65R-T V2.0 headlamp, with an inset showing the different light modes.

Two-Way SPORT Fit System

Wide and reflective headband with a new two-way SPORT fit system fastener allows easy one-handed adjustment (tighten clockwise, loosen counter-clockwise).



Person adjusting the Fenix headlamp headband with one hand using the two-way SPORT fit system dial.

Lightweight and Durable Design







Made of magnesium alloy, 30% lighter than aluminum while maintaining durability. Impact resistance up to 2 meters.

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.

Fenix HM65R-T V2.0 headlamp resting in the palm of a hand, highlighting its lightweight magnesium alloy construction.

IP68 Waterproof Rating

Completely dustproof and waterproof, ready for rough outdoor conditions.

SETUP AND CHARGING

Battery Installation

The headlamp comes with a 3400mAh Fenix ARB-L18-3400 rechargeable Li-ion battery. It's easy to remove and replace.

Also compatible with 2 x CR123A batteries for convenience.

USB-C Rechargeable

Features a built-in USB-C port for fast charging. A full charge takes approximately 3 hours.

Power indicators tell you the battery level (4 lights: 100%-80%, 3 lights: 80%-60%, 2 lights: 60%-40%, 1 light: 40%-20%, 1 light flashes: 20%-1%).

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.



Technical parameters table for Fenix HM65R-T V2.0 showing size, weight, output, runtime, distance, intensity, impact resistance, and submersible ratings for white and warm white light modes.

OPERATING INSTRUCTIONS

Power On/Off

Press and hold either of the switches for 0.5 seconds to turn on/off.

Mode Switching

Single click to select output.

Switch between White Light Mode and Warm White Light Mode by single-clicking the corresponding button.

Lockout Function

Electronic lockout: Press and hold both switches simultaneously for 3 seconds. The light will flash 4 times in Eco mode to indicate it's locked. To unlock, press and hold both switches for 3 seconds again.

Physical lockout: Utilize the protective cover over the buttons to prevent accidental activation.

SOS Mode

The HM65R-T V2.0 includes an SOS mode for emergencies, which previous models lacked.

To activate SOS mode, press either button for 1.2 seconds from the off state. It will activate in Eco Warm White (5 lumens).

Detailed guide on how to operate the Fenix HM65R-T V2.0 headlamp, including power, mode switching, and lockout functions.

SPECIFICATIONS

Feature	Value
Brand	Fenix
Model	HM65R-T V2.0
White Brightness	1600 Lumens (High), 400 Lumens (Med), 130 Lumens (Low)
Warm White Brightness	800 Lumens (High), 400 Lumens (Med), 130 Lumens (Low), 5 Lumens (Eco)
Runtime (White Light)	3 hours (High), 12 hours (Med), 24 hours (Low)
Runtime (Warm White Light)	6 hours (High), 12 hours (Med), 24 hours (Low), 300 hours (Eco), 600 hours (SOS)
Light Path Distance	185 Yards (White High), 122 Yards (Warm White High)
Material	Magnesium Alloy
Item Weight	4.96 ounces
Water Resistance Level	Waterproof (IP68)
Impact Resistance	2 meters
Power Source	Battery Powered (1 Lithium Ion battery included)
Included Components	Charging Cable, Headlamp, Head Band

WARRANTY AND SUPPORT

This product comes with a limited warranty. Please refer to the included warranty card for details.

For additional support, visit the official Fenix store: [Fenix Store](#)

SAFETY FEATURES

Reflective Headband

The headband features reflective elements (circles and Fenix logo) to enhance visibility at night.

Emergency Whistle

A built-in whistle is included for emergency signaling in the wilderness.

PRODUCT COMPARISON

The Fenix HM65R-T V2.0 combines features from the original HM65R-T and the HM65R-DT models, offering enhanced performance and user experience.

- **HM65R-T V2.0:** 1600 lumens (white), 800 lumens (warm white), unified diffuser, 2-way SPORT fit system, SOS mode.
- **HM65R-T (Original):** SST40 White Light LED, Neutral White LED Spot, 1500 lumens combined, 1-way SPORT fit system.
- **HM65R-DT:** SST40 White Light LED, SST20 Warm White Light LED, 1500 lumens combined, 1-way SPORT fit system.


FENIX
LIGHTING FOR EXTREMES


RUN YOUR OWN WAY


HM65R-T V2.0


LIGHTWEIGHT MAGNESIUM
TRAIL RUNNING HEADLAMP



 24-HOUR RUNTIME MODE
FOR TRAIL RUNNING

 WHITE LIGHT +
WARM WHITE LIGHT

 TWO-WAY ADJUSTABLE
HEADBAND

 LIGHTWEIGHT
BODY

Comparison of three Fenix headlamps: HM65R-DT (purple), HM65R-T V2.0 (black), and HM65R-T (black with red headband).