

NITECORE®

EH1S

Explosion-Proof Headlamp

EX Mark:
Ex ib IIB T5 Gb



I M1 Ex ia op is I Ma EN 60079-35-1
(-20°C ≤Ta≤+40°C)

INTRINSICALLY SAFE



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ATEX (Equipment and protective systems for potentially explosive atmosphere) is the name commonly given to the two European Directives for controlling explosive atmospheres, Directive 2014/34/EU and Directive 99/92/EC (also known as 'ATEX 137' or the 'ATEX Workplace Directive').

ATEX certification ensures that the equipment or protective system is fit for its intended purpose and that adequate information is supplied with it to ensure that it can be used safely. Once certified, the equipment is marked by the 'EX' symbol to identify it as such.



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The EHI explosion-proof headlamp is accredited by the Coal Industry Shanghai Electric Explosion-Proof Inspection Station. Coal Industry Shanghai Electric Explosion-Proof Inspection Station is a branch of the National Safety Production Shanghai Mine Equipment Detection & Inspection Center, whose establishment was authorized by the State Administration of Work Safety/State Administration of Coal Mine Safety.

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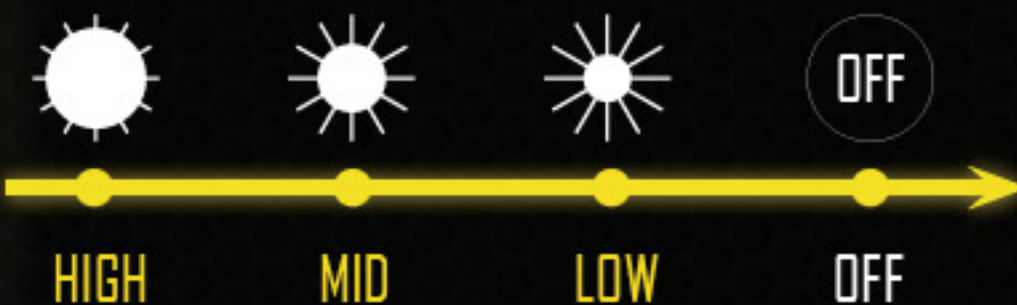


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CREE XP-G2 S3 LED

- Direct access to High Mode
- 3 brightness levels available



- 2 Concealed Special Modes

SOS S.O.S: Sending distress signal

Location Beacon: Signaling location

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LONG RUNTIME

The built-in high energy density 18650 battery ensures the EHIS headlamp has ultra-long runtime of 60 hours.



5 Hours
Max Runtime at High



60 Hours
Max Runtime at Low





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COMPACT AND LIGHTWEIGHT

The EHIS has an extremely compact and lightweight body, and it is able to float on the water surface, making it well suited for off-shore operations.



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MULTIPLE TYPES OF COLOR
TEMPERATURES AVAILABLE

3500K Warm White

Penetrates fog, smoke or haze effectively, suitable
for public safety and firefighting applications.

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5000K Neutral White

Smooth diffused output, ideal for long-period underground operations such as mine exploitation, cave exploration etc.

By The Kwan & Zak Tyler

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6500K White

Close to daylight, ensuring the users to identify and recognize the target accurately, suitable for use in gas station, railway/ subway station, warehouse, off-shore operations etc.



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RED LIGHT / FLASHES



Red light



Flashes

In Standby Mode, press and hold the button to activate four auxiliary LEDs and enter constant illumination red light mode to preserve night-adapted vision.

Red light has the longest wavelength and the ability to penetrate through fog, smoke and haze for long period, sending distress signals effectively.



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POWER INDICATING FUNCTIONALITY

When power levels are low or under charging conditions, the auxiliary red LEDs will blink quickly to indicate battery power levels or the charging progress at real time.

4 LEDs illuminate: battery power levels are above 90%;

3 LEDs illuminate: battery power levels are around 60%;

2 LEDs illuminate: battery power levels are around 40%;

1 LED illuminates: battery power levels are below 20%.

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INNOVATIVE SMART CHARGING

The EHIS headlamp is able to charge at a fast charging speed (1A) with the USB magnetic charging cable.

*Compatible with adapter, car adapter, PC or other standard USB ports.

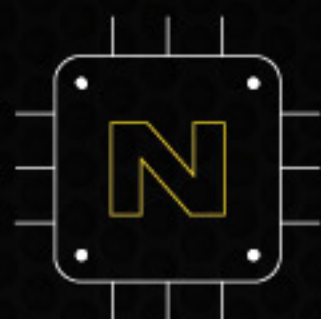


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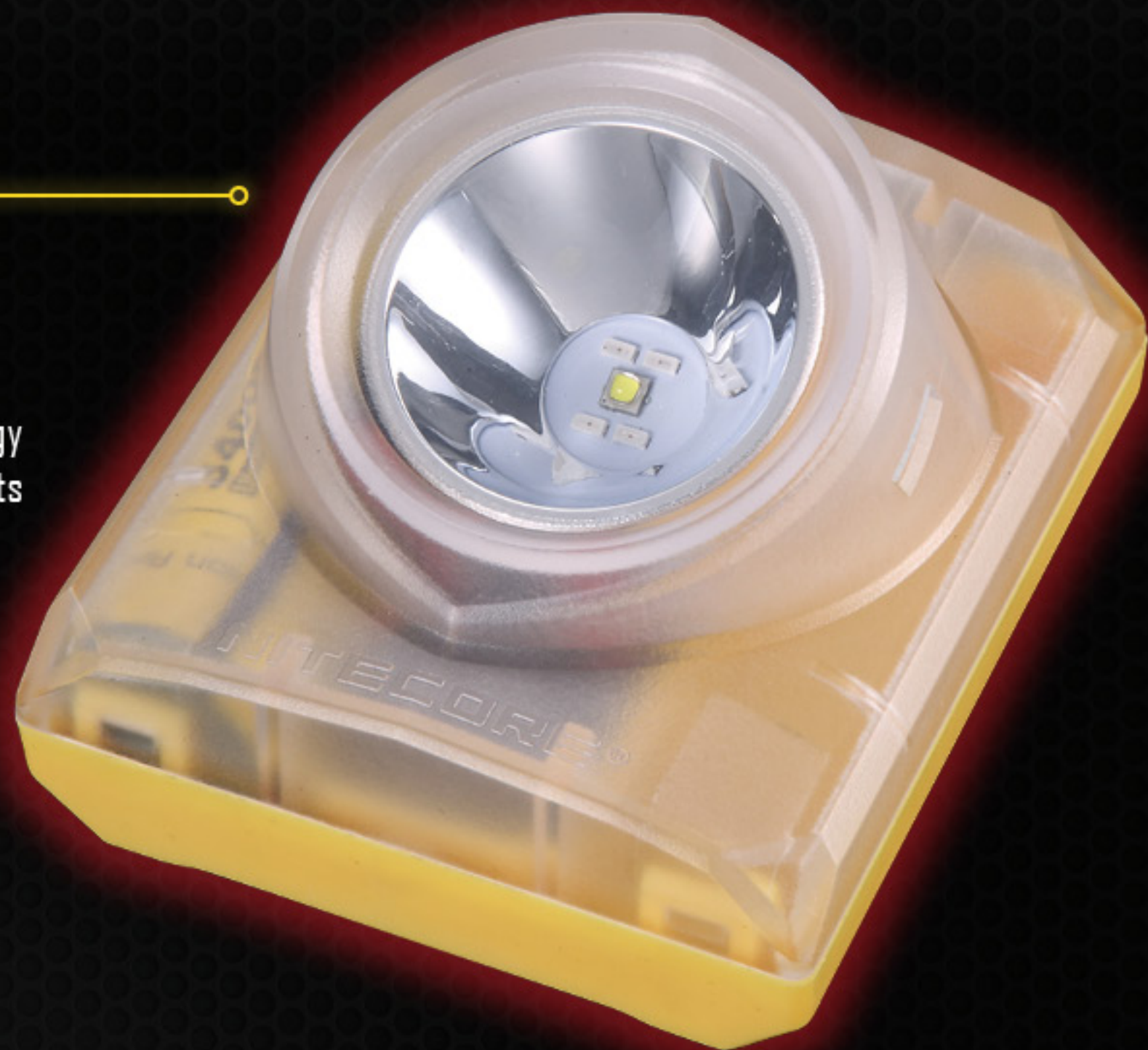
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A.T.R TECHNOLOGY

Advanced Temperature Regulation (ATR) technology enables the EHIS headlamp to dynamically adjust its output performance based on the body temperature.



THERMOELECTRIC SEPARATION TECHNOLOGY OPTIMIZES HEAT DISSIPATION

Heat generated from the LED is transferred to the exterior rapidly through the accommodated aluminum substrate, ensuring long period stable performance while extending the LED's life span.



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CURRENT LIMITING CIRCUIT

EHIS's current limiting circuit is designed to eliminate sparks effectively, thus ensuring top safety during use and enhancing its explosion-proof capability.

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The circuit board is sealed with silicone rubber. The silicone material has excellent electrical insulation property and is able to eliminate sparks, thus optimizing the lamp's explosion-proof capability.



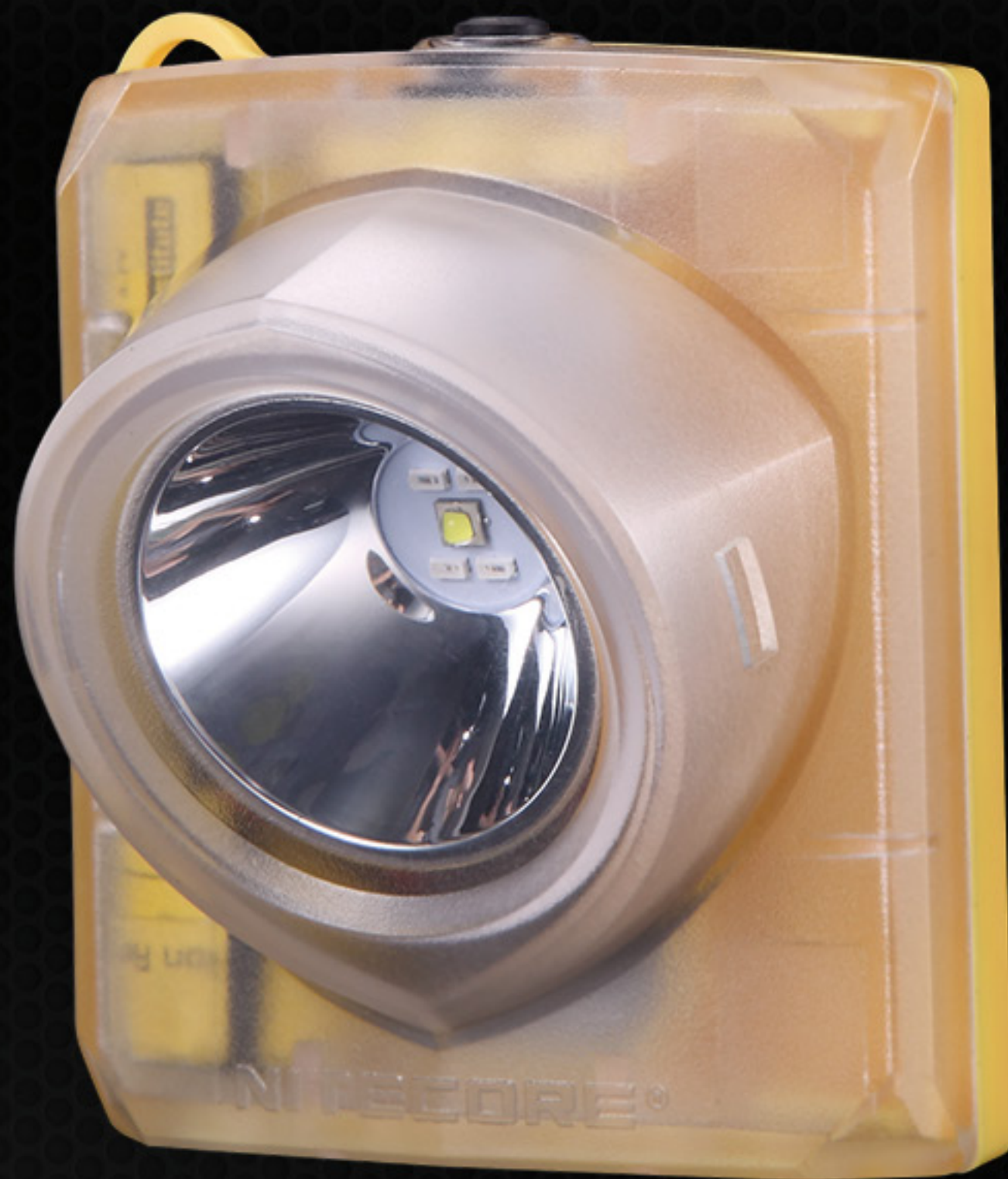
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**MADE FROM HIGH STRENGTH
POLYCARBONATE MATERIALS**
with great resistance to
impact and flames.



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IP68

Resistant to dust and water



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TWO CARRYING OPTIONS

Using the Helmet Mount



Using the Headband



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EHIS SPEC.

FLI STANDARD	HIGH	MID	LOW
	260 Lumens	65 Lumens	22 Lumens
18650 x 1	5 h	20 h	60 h
	205 m (Beam Distance)		
	10,500 cd (Peak Beam Intensity)		
	1.8 m (Impact Resistant)		
	IP68, 3 m (Waterproof and Submersible)		

The stated data has been measured in accordance with the international flashlight testing standards ANSI/NEMA FL1, using 1 x 18650 Li-ion battery (3.6V, 3400mAh) under laboratory conditions. The data may vary in real-world use due to different battery usage or environmental conditions.

By Lar.W

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FEATURES

- Designed for high risk industries, including mining, underground and off-shore petroleum exploitation, petrochemical and chemical industries
- Intrinsically safe LED headlamps
- Explosion Group IIB, Operating Temp Class T5 (100°C)
- Featuring Advanced Temperature Regulation (ATR) technology to dynamically adjust output performance according to body temperature
- Utilizing a CREE XP-G2 S3 LED
- Powered by one built-in 18650 battery for maximum output of 260 lumens
- USB magnetic charging cable for outputting 1000mA
- Intuitive user-interface with a button switch ensures easy one-handed operations
- Featuring 3 brightness levels and 2 special modes
- Featuring constant illumination/slow flashing red light
- Featuring power indicator and low battery alert
- Helmet mount included
- IP68 rating for dust and water resistance (3 meter submersible)
- 1.8 meter impact resistance