

NITECORE®

EH1

Explosion-Proof Headlamp

EX Mark:
Ex ib IIB T5 Gb

INTRINSICALLY SAFE



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CERTIFIED AS EXPLOSION-PROOF

Mark: **Ex ib IIB T5 Gb**

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.



CSST Ex **防爆合格证**

证号: SHeXC16.0340

生产单位: 广州希脉商贸有限公司

产品型号: EH1

产品名称: 防爆无绳灯

防爆标志: Ex ib IIB T5 Gb

主要技术参数: 电池型号: NCR18650B

电池容量: 3.4Ah*2

本安参数: U_0 : 4.2V I_0 : 0.8A C_0 : 75.12uF L_0 : 26.4uH

检验报告编号: 15021408

说明事项: 无

经对上述产品图样及技术文件的审查和样品的检验,符合以下标准:

GB3836.1-2010《爆炸性环境 第1部分:设备 通用要求》

GB3836.4-2010《爆炸性环境 第4部分:由本质安全型“i”保护的设备》

特发此证

批准:

章伯超

发证日期: 2016年4月14日

有效期至: 2021年4月13日

煤炭工业上海电气防爆检验站

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BUILT TO LAST

Two built-in high energy density 18650 batteries ensure the EHI headlamp has ultra-long runtime, and an extremely compact size, reaching a balance between battery life and weight.



10 Hours
Max Runtime at High



120 Hours
Max Runtime at Low

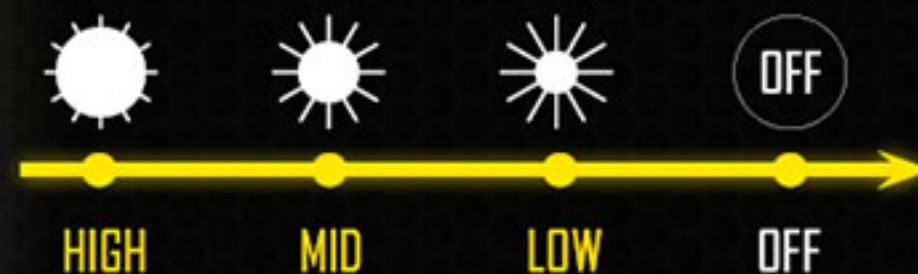


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CREE XP-G2 S3 LED

- Direct access to High Mode
- 3 brightness levels available



- 2 Concealed Special Modes

SOS S.O.S: Sending distress signal

Location Beacon: Signaling location

A dramatic scene of firefighters silhouetted against a massive fire. The firefighters are in the foreground, their forms dark against the bright orange and yellow flames. The fire is intense and fills the background, creating a high-contrast, almost apocalyptic atmosphere. The ground is wet, reflecting the light from the fire. The overall color palette is dominated by the warm tones of the fire, with the dark silhouettes providing a stark contrast.

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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.

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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 station, warehouse, ship 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

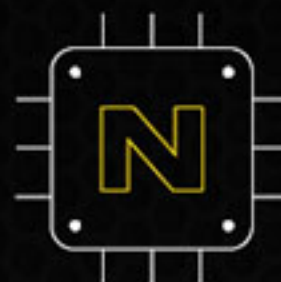
The EHI headlamp is able to charge at a fast charging speed (1A) with the USB magnetic charging cable.

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



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A.T.R TECHNOLOGY

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



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BETTER HEAT DISSIPATION

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



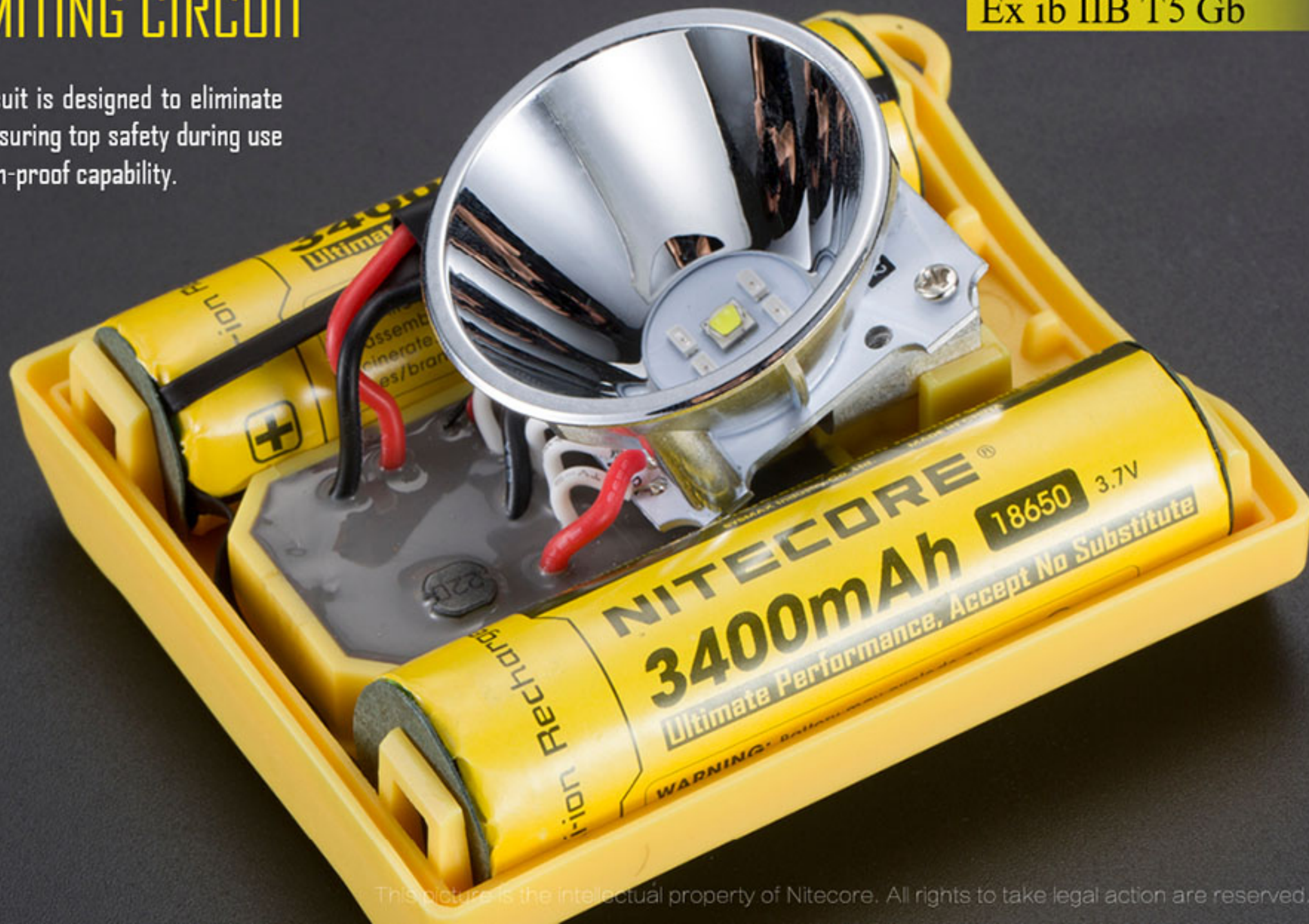
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CURRENT LIMITING CIRCUIT


EHI'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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EHI SPEC.

FLI STANDARD	HIGH	MID	LOW
	260 Lumens	65 Lumens	22 Lumens
 18650 x 2	10 h	40 h	120 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 FLI, using 2 x 18650 Li-ion batteries (3.6V, 3400mAh) under laboratory conditions. The data may vary in real-world use due to different battery usage or environmental conditions.

Photo by: Roberto Gomez

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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 two built-in 18650 batteries 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

