



Zones 0, 1, 2; Gas Groups IIA, IIB, IIC; Temperature Classes T1~T3



Ex ia IIC T3 IP67

KH3RC-Ex is designed for fire-fighting, rescue and tactical operations. It integrates a red LED beacon into a cordless caplamp to achieve both normal illumination in front and flashing red warning on the back when worn on the side of the helmet.

The illumination LED operates at either Main level for normal use or Auxiliary level for conservation of power. The warning beacon utilises 7 red LEDs behind a red scattering cover to enable wide angle viewing. You can use illumination only, beacon only or both.

The features of high light intensity and back warning light make it very suitable for applications where both maximal illumination and warning are required.

LED lighting
IP67 Water-proof
Rechargeable battery
Multiple applications
Mining quality & performance

OPERATIONS

The front lamp is a high power LED for illumination in two levels - Main for normal illumination and Auxiliary for low illumination or long operation. The rear red lamp includes 7 low power flashing LEDs for warning.

There are 4 operating Modes:

Auxiliary illumination --> Main illumination --> Warning --> Main illumination + Warning.

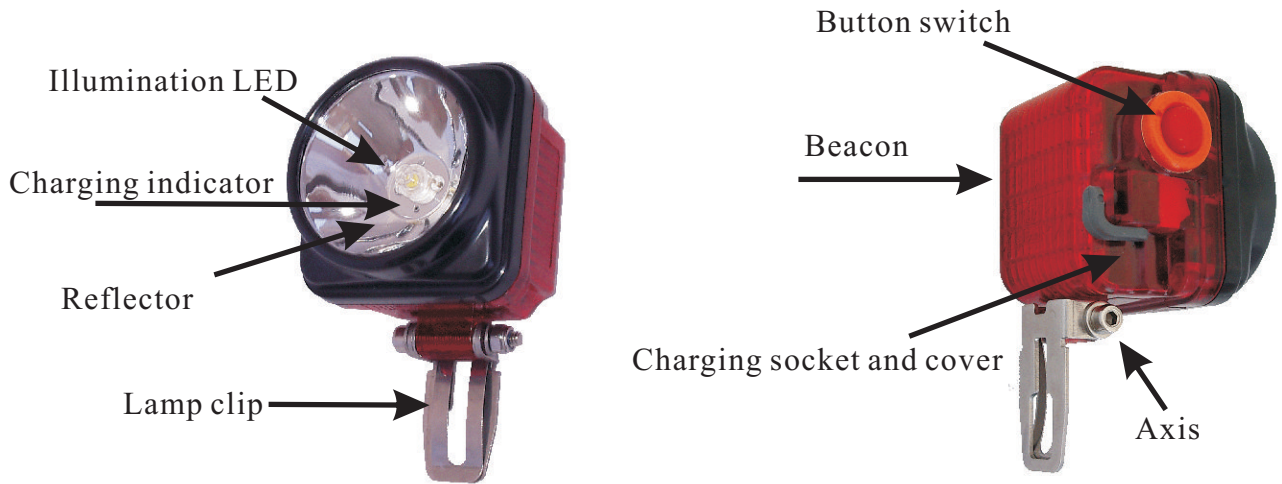
- ▲ Press the button to go to the next operating mode.
- ▲ Press and hold the button for two seconds to turn off.
- ▲ The lamp starts from the last operating mode when turned on.

FEATURES

- ▲ Both portable illumination and signaling in one lamp;
- ▲ High light output and long operating period in mining level;
- ▲ Adjustable angle to point wherever you see, near or far;
- ▲ Fully integrated and sealed structure designed for the harshest underground mining environment and outdoor applications;
- ▲ IP67 housing for submersible water-protection and the highest dust-protection;
- ▲ Separate light and Cap Strap to use the lamp as not only a helmet lamp and head lamp, but also a mini-torch and portable lamp;
- ▲ Various accessories available for different ways to wear, mount or attach;
- ▲ Various single chargers and charging banks available in different power input and charging units;
- ▲ Easy to charge. Strong protection from over voltage, over current, over charge and over



STRUCTURE



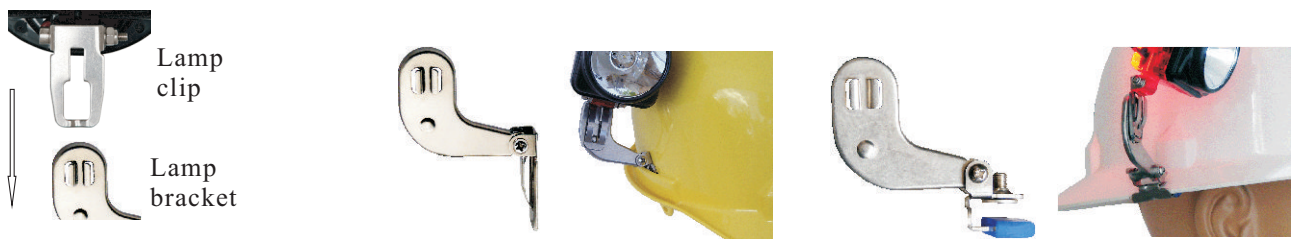
SIDE-WEARING

Fit the lamp to a side lamp bracket

There are two ways to mount the lamp on a helmet and there are two side caplamp brackets in every package. The lamp is fitted in either side lamp bracket in the same way. Simply align the slot of the caplamp clip to the bracket bar and slide the lamp in.

Fit the side lamp bracket to a helmet

Insert model of bracket, SLBI, can be inserted in the slot of a helmet. It is suitable for a miner's helmet. Screw model of bracket, SLBS, can be screwed onto the brim of the helmet. It is suitable for any other helmets.



Adjustable angle

The bracket is adjustable in the left-right direction to set a distance from the helmet so other attachments such as a visor will not block the light. The lamp is also angle adjustable in the forward-back direction to set the light projecting direction. Using the both bracket and lamp adjustments, an all-around angle is achieved.





HOW TO USE

Apart from wearing on a side of the helmet, KH3RC-Ex also can be used in various ways for illumination or signaling.

Helmet Lamp: Worn on any helmet using our *Cap Strap*, or fitted in the lamp bracket on a miner's helmet.

Head Lamp: Worn on the head directly by removing 4 *Cap Hooks* on the *Cap Strap*.

Mini-Torch: Just used as a torch or signal light, easily carried in your pocket or on your belt.

Portable Lamp: Clamped to an object or magnetically attached to a metal using our *Magnetic Lamp Bracket Clamp*, worn on the belt using our *Belt Worn Lamp Bracket*, or fixed to a location using our *Lamp Bracket*.

Others: Various accessories available for other ways to wear or mount the lamp, such as *Bar Bracket*, *Strap Bracket*, *Handle & Pocket Bracket*, *Tripod Bracket*, *Wrist Strap* and *Lamp Cluster*.



CHARGING FACILITIES

Mains Charger: Charge the lamp from a Mains outlet (*standard accessory in every package*)

Vehicle Charger: Charge the lamp from the cigarette lighter in a car or truck (*12/24VDC*).

Charging Banks: Three models available to charge 8, 36 or 52 lamps together from different powers.

SPECIFICATIONS

Operating time:	7 hours (Main Mode)
Luminous intensity:	3000 cd (Main Mode)
Charging time:	8 hours
Battery:	2.8 AH, 3.7V
Battery lifetime:	80%C after 500 full charging cycles
LED lifetime:	30,000 hours
Weight:	140 g
Enclosure:	IP67
Warranty:	1year replacement

CERTIFICATION

Intrinsically Safe



IP67

Ex Code:	Ex ia IIC T3
Certificate #:	IECEX TSA 10.0006X ANZEx 10.3012X
Standards:	General Ex Standard: IEC66079-0 Intrinsically Safe Standard: IEC66079-11 Ingress Protection Standard: AS60529