



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



Ex ia IIC T3 IP67

KH3S-Ex is a high power model of the Helmet Lamp and Torch series. KH3S-Ex features a superior illumination in just 140g. It is suitable for most high demanding hand-free portable illuminations.

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

## OPERATIONS

**Main Mode:** For normal working operation, delivering good illumination in excess of 14 hours duration.

**High-Beam Mode:** Strong light beam for long distance projection, spotting, etc.

**Auxiliary Mode:** Power saving for long operation and low level illumination.

**Off:** The Caplamp is switched off.

By toggling the operating button the Caplamp goes through: Main Mode > High-Beam Mode > Auxiliary Mode > Off

## FEATURES

- ▲ High light output and long operating period in mining level;
- ▲ Adjustable angle to point wherever you see, near or far ---- to read and write, repair equipment or check the pipes, significantly reducing dead corners
- ▲ 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 discharge;
- ▲ Negligible running cost because of rechargeable battery and free of maintenance.



## HOW TO USE

**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:	14 hours (Main Mode)
Luminous intensity:	2800 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