

**Zones 0, 1, 2; Gas Groups IIA, IIB, IIC; Temperature Classes T1~T3****Ex ia IIC T3 IP67**

KH4S-Ex can be worn on the left or right side of your helmet. It also fits in the lamp bracket. A lamp bracket is provided as a standard accessory to attach the caplamp to the brim of any helmet. KH4S-Ex uses a high capacity battery – 4AH and so generates a very high light intensity. This makes it very suitable for applications demanding hand-free portable but very light illumination such as rescue operations.

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 Mode: The Caplamp is switched off.

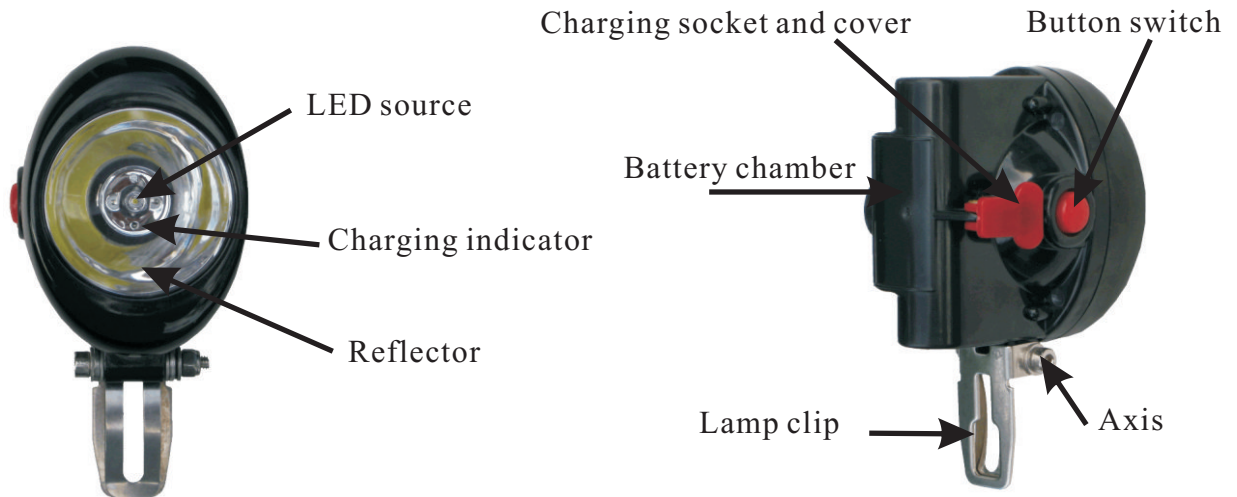
By toggling the operating button the Caplamp goes through: Auxiliary Mode > Main Mode > High-Beam Mode > Off Mode.

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.



STRUCTURE



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.

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*.

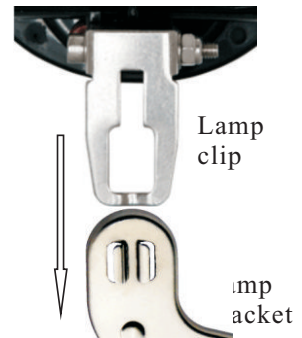




SIDE-WEARING

Fit the caplamp to a side lamp bracket

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



Fit the side lamp bracket to a helmet

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



Adjustable angle

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



SPECIFICATIONS

Operating time:	14 hours (Main Mode)
Luminous intensity:	2000 cd (Main Mode)
Charging time:	8 hours
Battery:	4 AH, 3.7V
Battery lifetime:	80%C after 500 full charging cycles
LED lifetime:	30,000 hours
Weight:	165 g
Enclosure:	IP67
Warranty:	1 year 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