



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



**Ex ia IIC T3 IP67**

KH2M-Ex is a lightweight model of the Helmet Lamp and Torch series in 7-LEDs. Every LED has an individual concave reflector so a well focused beam can be achieved. It also features a longer operation and low cost suitable for various industrial applications when both focused beam and low cost are demanded.

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

## OPERATIONS

**Operating Mode 1:** All LEDs are on for normal operation.

**Operating Mode 2:** Only 1 LED in the middle is on for long operations or low illuminations. Press the switch to toggle operating mode 1, mode 2 and turning 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:	16 hours (All LEDs on)
Luminous intensity:	1000 cd
Charging time:	7 hours
Battery:	2AH, 3.7V
Battery lifetime:	80%C after 500 full charging cycles
LED lifetime:	30,000 hours
Weight:	110 g
Enclosure:	IP67
Warranty:	1year replacement

### CERTIFICATION

#### Intrinsically Safe



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