



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



Ex ia IIC T3 IP67

KH3VS-Ex is a headlamp and warning lamp for vehicle emergency signaling and hand-free illumination. During an emergency, it can be attached to the vehicle or to the rail on the freeway. It also can be mounted on the tripod away from the vehicle. The flashing red lamp faces incoming vehicles and the lighting faces your accident vehicle. In this setup, even during the night, in heavy raining or dense fog, incoming vehicle drivers can still see the signal and notice the outline of the car. This active safety warning can effectively avoid further problems or accidents. These headlamps/portable lamp function and emergency signaling function make it a very powerful handy tool for drivers, especially in hazardous material transportation.



OPERATIONS

Auxiliary illumination: for long operations or low illuminations

Main illumination: for general illumination.

Warning: flashing lamp in red on the back for warning.

Main illumination + Warning: combination of Main illumination and Warning.

- ▲ By toggling the operating button the lamp goes through four operating states.
- ▲ Press and hold the button for two seconds to turn off.
- ▲ The lamp starts from the last operating state when turned on.

FEATURES

- ▲ Multiple applications for portable illumination and signaling;
- ▲ 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;
- ▲ IP67 housing for submersible water-protection and the highest dust-protection;
- ▲ 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.

CHARGING FACILITIES

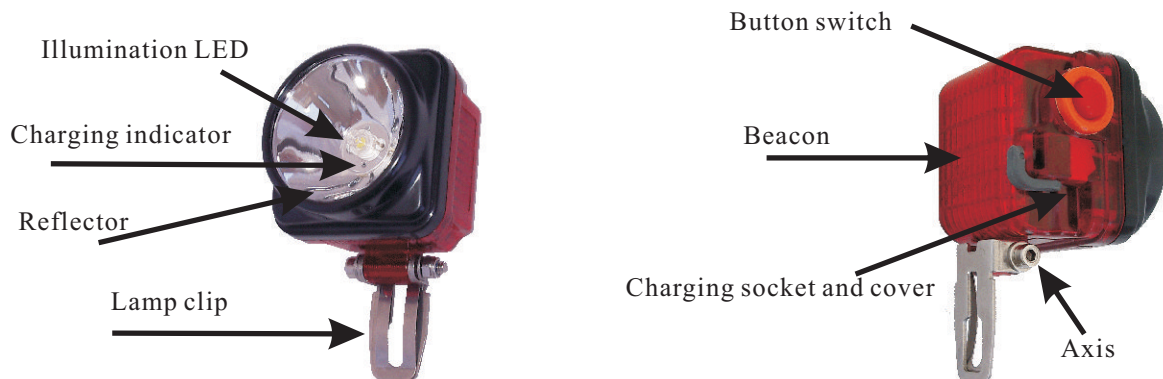
Mains Charger: Charge the lamp from a Mains outlet (*standard accessory in every package*).

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.



STRUCTURE



APPLICATIONS

Emergency safety lamp

Using the tripod to place the lamp away from the vehicle, set the illumination lights toward your vehicle for illumination and the beacon toward incoming vehicles on the road for safety warning. In this setup, even during the night, in heavy raining or dense fog, incoming vehicle drivers still can see the signal and notice the outline of the car. This active warning can effectively avoid further problems or accidents.

Portable work lamp

Worn on helmet: Worn on a plain hard cap using our *Cap Strap*, or worn on the head directly by removing 4 *Cap Hooks* on the *Cap Strap*.

Hold in hand: 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*, *Lanyard* and *Wrist Strap*.



SPECIFICATIONS

Operating time:	14 hours (Main+Warning)
Luminous intensity:	1500 cd (Main)
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