



# NITECORE Intrinsically Safe LED Headlamp Instruction Manual

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# NITECORE®

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HA23-Ex

Intrinsically Safe Explosion-Proof AA Headlamp

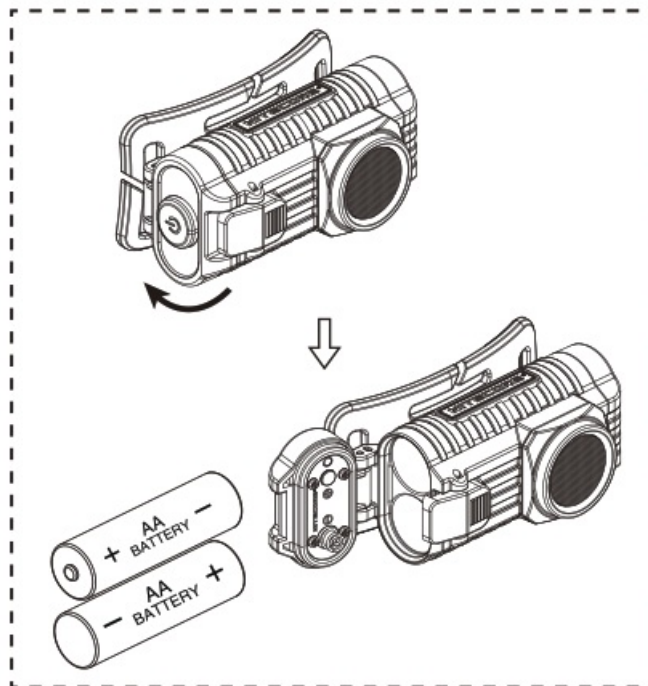
- Ultra Compact and Lightweight
- One-Hand Operable
- 70° Tilt Angle



## Contents [ [hide](#)

- [1 Battery Installation](#)
- [2 Features](#)
- [3 Specifications](#)
- [4 Accessories](#)
- [5 Battery Options](#)
- [6 Technical Data](#)
- [7 HA23-Ex User Manual](#)
- [8 Warranty Service](#)
- [9 Documents / Resources](#)
  - [9.1 References](#)
- [10 Related Posts](#)

## Battery Installation



## Features

- Intrinsically safe explosion-proof headlamp specially designed for petrochemical, chemical industries and downhole operations
- Explosion protection marking: Ex ia IIC T6 Ga
- Utilizes a CREE XP-G LED with a max output of 100 lumens
- Utilizes a bead-surface total reflective optic lens to emit a uniform and soft light
- Powered by 2 x AA batteries with a max runtime of 130 hours
- Max peak beam intensity of 350cd and max throw of 37 meters
- Reverse polarity protection
- Highly efficient constant current circuit provides stable output
- Flood beam system with 70° tilt angle
- Made from durable PC materials
- Ultralight and portable design

- Waterproof and dustproof rating in accordance with IP67
- Impact-resistant to 1 meter

Specifications

Dimensions

70.8mm×42.3mm×38mm  
(2.79"×1.67"×1.5") (Bracket Included)

Weight

80g (2.82oz) (Bracket and Headband Included, Batteries Not Included)  
42.5g (1.5oz) (Bracket Included, Headband and Batteries Not Included)

Accessories







Headband, 2 x AA Batteries

Battery Options

		Type	Nominal Vol tage	Compatibility
√	Rechargeable AA Batteries	AA	1.2V	Y (Recommended)
√	Primary AA Batteries	AA	1.5V	Y (Recommended)
×	Rechargeable Li-ion Batteries	14500	3.7V	N (Incompatible)







Technical Data

Using 2 x AA Ni-MH Rechargeable Batteries:

FL1 STANDARD	HIGH	MID	LOW
	100 Lumens	40 Lumens	2 Lumens
	4h	24h	130h
	37m	23m	4m
	350cd	130cd	4cd
	1m (Impact Resistance)		
	IP67		

**Note:** The stated data is measured in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019, using 2 x 1.2V 2,450mAh AA Ni-MH rechargeable batteries under laboratory conditions. The data may vary in real world use due to different battery usage or environmental conditions.

#### Using 2 x AA Alkaline Batteries:

FL1 STANDARD	HIGH	MID	LOW
	100 Lumens	40 Lumens	2 Lumens
	2h 45min	16h	110h
	37m	23m	4m
	350cd	130cd	4cd
	1m (Impact Resistance)		
	IP67		

**Note:** The stated data is measured in accordance with the international flashlight testing standards ANSI/PLATO FL 1-2019, using 2 x 1.5V AA high-quality Alkaline batteries under laboratory conditions. The data may vary in real-world use due to different battery usage or environmental conditions.

## HA23-Ex User Manual

### Operating Instructions

#### Battery Installation

Open the battery holder by holding the lock of its cover and insert 2 x AA batteries as illustrated.

**Warning:** Ensure the batteries are inserted according to the polarity label. The product will not work if the batteries are incorrectly inserted.

#### On / Off

On: When the light is off, press the switch until a click sound is heard to turn on the light.

Off: When the light is on, press the switch until a click sound is heard to turn off the light.

#### Brightness Levels

When the light is on, half-press the switch to cycle through the following brightness levels: LOW – MID – HIGH.

When shut down and reactivated in over 5 seconds, it will automatically access the LOW Level.

### Warnings

1. Only use batteries as recommended in the user manual.
2. When the product is kept in a backpack or left unused for a prolonged time, please remove all batteries to prevent accidental activation or battery leakage.
3. DO NOT open the battery holder when explosive gas is present.
4. CAUTION! Possible dangerous radiation! Don't look into the light! May be dangerous for your eyes.

5. Please store the product in dry and well-ventilated environments. Ambient Temperature of Storage: 0°C~40°C (32°F~104°F). Relative Humidity: No more than 85%.
6. The product can be used in hazardous environments when an explosive gas or vapor is present or as emergency lighting for various indoor/outdoor operations (electric power industry, metallurgical industry, railway, port, municipal engineering, and other industries) as well as factories, sites, facilities, railway tunnels, bridges, culverts and more. Ambient Temperature of Usage: -20°C≤Ta≤40°C (-4°F≤Ta≤104°F)
7. DO NOT disassemble, modify or reconstruct the product, otherwise, the warranty will be nullified, and the product might be damaged.

### Changing Batteries

The batteries should be replaced when the output appears to be dim or the headlamp becomes unresponsive due to low power. DO NOT open the battery holder when explosive gas is present.

### Warranty Service

All NITECORE ® products are warranted for quality. Any DOA / defective product can be exchanged for a replacement through a local distributor/dealer within 15 days of purchase. After that, all defective/malfunctioning NITECORE ® products can be repaired free of charge within 60 months from the date of purchase. Beyond 60 months, a limited warranty applies, covering the cost of labor and maintenance, but not the cost of accessories or replacement parts.

The warranty will be nullified if

1. the product(s) is/are broken down, reconstructed, and/or modified by unauthorized parties;
2. the product(s) is/are damaged due to improper use; (e.g. reversed polarity installation)
3. the product(s) is/are damaged due to battery leakage.

For the latest information on NITECORE ® products and services, please contact a local NITECORE ® distributor or send an email to [service@nitecore.com](mailto:service@nitecore.com)

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## Documents / Resources



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## References

- [NITECORE](#)
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