

Digital Headlight Instruction Manual

1: Overview

WIN10 digital headlamp is a portable mining light that use LED as the light source and lithium manganese oxide battery as the power source. Widely used in underground coal mines, tunnel engineering, power, railway and highway construction, ships, and emergency rescue lighting fields.

2: Product features

2.1 Safety: This product has explosion-proof performance, short circuit protection, overcharge and over discharge protection circuit, and a 100000 hour LED service life

2.2 Reliability: It is made of high-strength ABS engineering plastic, with a compact structure and good impact resistance, explosion-proof performance, and waterproof performance. The optimized structural design and MCU control make the product more reliable

2.3 Product features: The product has the advantages and characteristics of high illumination, intelligent digital display of worker ID, year, month, day, time, power display, voltage display. It is small size, light weight, maintenance free, high safety performance, and large capacity.

4. Environmental Protection: Lithium ion batteries are maintenance free, have environmentally friendly material properties, use 3W high-power LED, and have energy-saving and environmental protection characteristics.

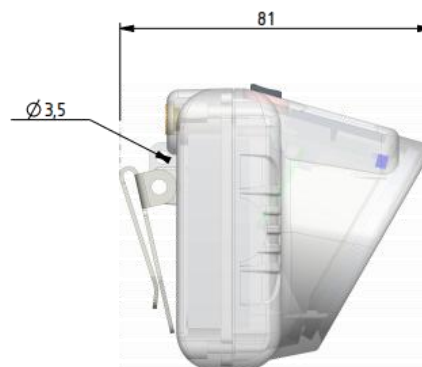
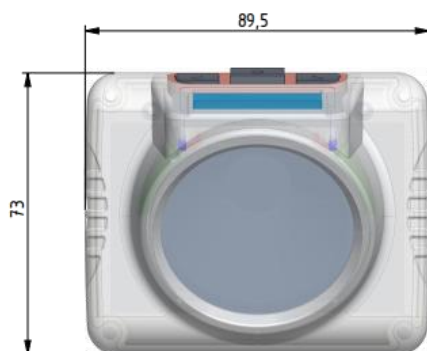
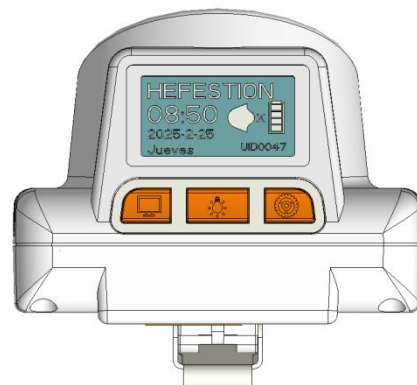
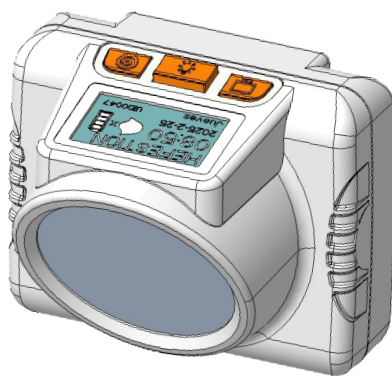
5:Environmental conditions for use:0~+40°C

3: Technical Parameters

No.	Parameters	Value
1	Rated Voltage	3.7V
2	Light Source	LED Light, Main/Auxiliary change
3	Rated Capacity	6.6AH
4	LED main light source luminous intensity	≥1cd
5	Working current	350MA
6	Luminous lumens	150-180LM
7	Charging protection voltage	4.2v
8	Discharge protection voltage	3.2±0.1v
9	Battery Type	Lithium Battery
10	Effective working time	≥16H


No.	Parameters	Value
11	Color temperature	12000K
12	illumination	15000-18000lux
13	Charging voltage	5V
14	Charging current	1000ma
15	Protection Grade	IP67
16	Charging Time	7-9H
17	Product color	Matte transparent
18	life Time	> 100000h
19	Charging type	Specialized charger
20	weight	240g
21	Specialized charger	5V/1A


4: Product schematic diagram



5: Operating instructions

5.1 Lighting switch:

-Short press the middle  to switch on the light, and realize: the main light is on, the auxiliary light is on, and the main light is on, and the auxiliary light is off. Long press the main light switch for 3s to turn on the alarm strobe, and often press 3s again to turn off the strobe.

-Press the switch on the left  side to light up the OLED screen, and the screen will automatically black out after 10s without any other operation.

5.2 Function Settings

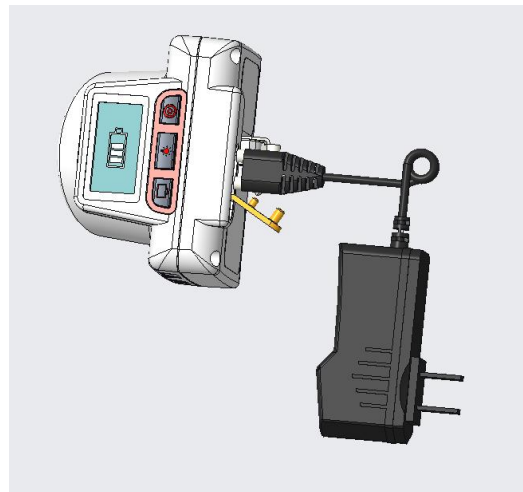
5.2.1 Long press the left and right buttons at the same time to enter the screen setting mode, the number blinks, enter the number setting, click the left button to jump to the number, the right button to scroll the number to set, click the left button again to confirm and jump to the next position to continue setting.

5.2.2 Hold down the left and right buttons at the same time, scroll the right button on a single machine to select the setting item, turn to the setting of the year/month/day, and set it in the same way as above. After the successful setting of the year/month/day, the week will be automatically calibrated without separate setting.

5.2.3 After the Settings are complete, the Settings are automatically confirmed when the screen is lit up again 10 seconds after the screen disappears.

6: Battery management

When charging, the display screen shows that the battery level is jumping, indicating that it is charging. After being fully charged, the battery level is full.



7: Trouble shooting

If any abnormalities occur during the use of the lamp, please check and eliminate the fault first:

No.	Description of fault symptoms	Analysis	Inspection and Solution
1	Insufficient lighting time	Undercharge	Firstly, check each contact point, and then charge according to the prescribed method
		The new lamp was put into use without being cycled charging	Perform cyclic charging according to regulations
		The battery has reached its lifespan	Replace with a new mining lamp
2	The light source is not on	Poor switch contact or damaged LED light source	Check if the switch has poor contact. If the contact is good, check the voltage at both ends of the LED, check the circuit, or contact the manufacturer
3	The mining lamp cannot be charged or the charging time is too long	Charger malfunction or battery damage, or charging manager malfunction	Check the output voltage and current of the charger. If everything is normal, check the battery and measure its resistance and capacity. If it does not meet the technical requirements, replace the charger or contact the manufacturer

8: Precautions

- 8.1 It is strictly prohibited to dismantle mining lamps or replace parts during work
- 8.2 Strictly follow the charging equipment and charging method specified in the instruction manual for charging
- 8.3 It is strictly prohibited to violently impact or expose mining lamps to direct sunlight and rain