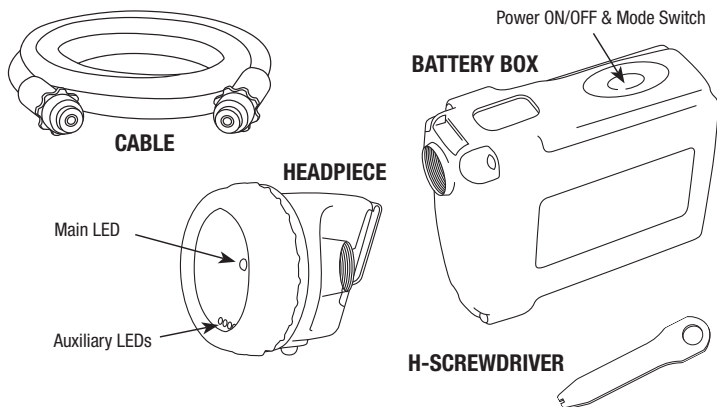






# HaloLite H3

## Cap Lamp

### USER INSTRUCTIONS



#### 1. Assembling the HaloLite H3

-  Fit the cable to the headpiece and turn the cable clockwise until it is fastened.
-  Use an H-screwdriver to tighten the locking screw on the headpiece.
-  Fit the cable to the battery box and turn the cable clockwise until it is fastened.
-  Use an H-screwdriver to tighten the locking screw on the battery box.

#### 2. Using the HaloLite H3 for the first time

The HaloLite H3 is delivered with the battery in the 'shorted out' condition. What this means is that the battery is disconnected inside the battery box to make the lamp safe for shipping. The batteries also contain only 50% charge as this is the safest battery condition for shipping.

To activate the battery of the HaloLite H3, the HaloLite H3 needs to be connected to a charger. The HaloLite H3 is charged through the headpiece. To charge the HaloLite H3, connect the charge pin on the charger to the back of the headpiece in the upside down position and turn clockwise to activate charging.



The auxiliary LEDs on the headpiece should flash twice to indicate that charging has been detected and the red LED inside the battery box should flash to indicate that charging is in progress. This is indicated by an approximate 500ms on & off cycle of the red LED inside the battery box.

Leave the lamp on charge for 10 hours to fully charge the battery. The 'battery full' condition is indicated by a short flash of the red LED.

When the battery is fully charged, the HaloLite H3 is ready for use. The headpiece and battery box now need to be synchronized with each other. To do this, the following steps need to be taken.

- Press the button on the battery box to switch on the HaloLite H3. The Main LED should now be ON.
- Press the button again to switch to the AUX LEDs. At this time the AUX LED might just flash ON & OFF once.
- Press the button again to cycle to the next mode.

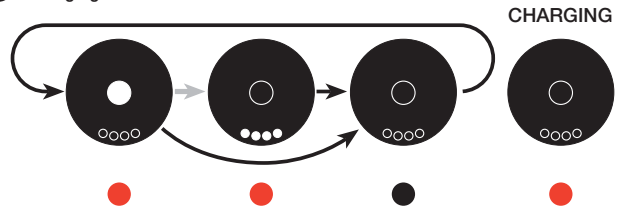
- Repeat this procedure until you see a complete cycle of the lamp modes which are
  - Main LED ON, AUX LED OFF
  - Main LED OFF, AUX LED ON
  - Main LED OFF, AUX LED OFF

The HaloLite H3 is now ready for general use.

#### 3. Operation of the HaloLite H3

There are basically 4 modes for the HaloLite H3

- 1 Main LED ON, AUX LED OFF The red LED is ON
- 2 Main LED OFF, AUX LED ON The red LED is ON
- 3 Main LED OFF, AUX LED OFF The lamp is switched off
- 4 Charging The red LED is ON



- Press switch hard (you will hear a mechanical click) to switch main LED on.
- Touch the switch lightly to move to auxiliary mode.
- Press switch hard to switch off.
- If lamp is off press switch hard to go to next phase etc.
- The lamp can only be switched on/off by pressing the switch hard.
- To enter charging mode, connect the HaloLite H3 to a charger.

#### 4. Troubleshooting the HaloLite H3

##### The HaloLite H3 is not charging

Check the charger output voltage. The charger output voltage should be approximately 5V. If the charger output voltage is fine, proceed to the next step, otherwise change the charger.

Connect the HaloLite H3 to a charger through the headpiece.

Did the AUX LED's on the headpiece flash twice? If yes, proceed to the next step, otherwise change the headpiece and repeat the test.

Does the red LED on the battery box flash? If yes, proceed to the next step, otherwise change the battery box and repeat the test.

Did the LED on the charger change from GREEN to RED? If yes, the HaloLite H3 is now charging, otherwise change the cable.

If the HaloLite H3 is still not charging, return the HaloLite H3 to Optimac for further analysis.

##### The Main LED starts flashing after a while

This indicates a fault on the Main LED. Change the headpiece and return the faulty headpiece to Optimac for further analysis.

##### The battery does not last a full shift of 8 hours

This indicates a battery fault. Change the battery and return the faulty battery box to Optimac for further analysis.

##### The lamp does not cycle through its modes properly

Replace the cable.

Does the lamp cycle through its modes? If yes, send the old cable back to Optimac for further analysis, otherwise proceed to the next step.

Open the battery box using an 'H-screwdriver' as supplied to loosen the 4 screws.

Disconnect the Main PCB.

Remove the Main PCB and replace it with a new one.

Reconnect the Main PCB.

Does the lamp cycle through its modes? If yes, close the battery box and send the faulty PCB to Optimac for analysis, otherwise change the headpiece and repeat the test.

If the lamp still does not operate correctly, send the complete lamp back to Optimac for further analysis.

#### HaloLite H3 Technical Specifications

- The HaloLite H3 is very robust and designed to work in the toughest mining conditions
- It is 100% waterproof and each lamp is fully water tested before shipping
- Designed as a Plug-and-Play replacement system
- Bright light output of >4200 lux
- Total weight is only 625g (0.625kg)
- 80x longer lamp life because of the approximate 50000 hour life span of the LED
- Only 10 hours of charging time required to fully charge the battery
- Battery life of 1000+ cycles
- Optional RFID tracking and communications with extensive diagnostics and statistical feedback for lamp and lamproom management

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