

## The MagicShine MJ-808 - 4 Mode Edition

### Operating instructions:

The light is attached by a simple but secure rubber “O-Ring”

1. Start by slipping the ring into the hook at the front of the light under the wire exit. (Choose the ring according to the diameter of your handlebars.)
2. Place the saddle of the mount onto the bar and stretch the ring around the bar, securing it on the hook at the back side. (you need a place where the bar is straight across as the light is not adjustable side to side) You may need to wrap the bar with a layer of handlebar tape, friction tape, or duct tape to prevent slipping.
3. Place the battery pack under your top tube, handlebar stem, or handlebar and pass the 2 straps over the bar, through the rings, and back across the bar, securing it to itself. It is best to position the wire so that it is uphill to the battery pack and light to avoid the possibility of water seeping in along the wire.
4. Plug the battery into the light and press the button on the back of the light to turn it on.
5. Press the button again to switch to medium, low, and back to high.
6. Press and hold the button for 1-2 seconds to turn the light off.
7. Press and hold the light for 3-4 seconds to switch to strobe. An additional push for 2 seconds will turn the light off.

A helmet mount, elastic head strap, and extension cable are available and sold separately.



### Charging instructions:

1. Plug the charger into your electrical outlet. The charger is rated for 100 – 240v, 50 – 60 Hz and needs only an adapter for different supply ratings. The light on the charger will light up green when powered.
2. Plug the battery into the charge cord. The light on the charger will turn to red. In 1 to 5 hours the light will return to green when the battery is fully charged.

Note: If the battery does not need charging the light will remain green.

Li-ion batteries do not have a “memory effect” and it is all right to charge them after every use, regardless of charge state. They do not like heat, over charging or fully discharging.

To prevent over and under voltage, the pack is protected with an internal circuit that cuts off charging at 8.4v and shuts off the pack at 5.5v.

**POI:** The LED itself needs only about 3.8v. An internal circuit cuts back the battery pack voltage to control the current supplied to the LED. This is how the light maintains full brightness for the entire run of the battery.

## **Caution:**

*Heat is the enemy of all electronics, including LEDs. Considerable heat is generated by the LED and its control circuit when operating on high. This heat is easily dissipated when moving. However, when stopped the light should be switched to medium or low to prevent overheating. The same applies when operating the light indoors. (If it's too hot to lay your bare hand on it's too hot.)*

## **The 5 Stage Fuel Gage:**

To keep you informed of the power remaining in your battery, the light is equipped with a 5 stage "fuel gage" as follows:

Green light - 100% to 75% (8.4v – 7.7v)  
Blue light – 75% to 50% (7.7v – 7.1v)  
Yellow light – 50% to 25% (7.1v – 6.4v)  
Red light – 25% to 10% (6.4v – 6.0v)  
Flashing red light – less than 10% (6.0v – 5.5v)

## **Storage:**

The light itself has no particular storage requirements though high humidity should be avoided if possible.

Li-ion batteries on the other hand are a bit picky about how they are stored. Ideal conditions are to store them with about a 40 -50% charge at about 60°F or less (15.6°C) When storing for a long period (over the summer) for best results partially discharge, place in a zip lock bag and place in your refrigerator or freezer.

## **Warranty:**

Your light and battery are covered by a 6 month warranty against defect in material and workmanship.

Thank you for purchasing your MagicShine light from UV EQUIP.  
With proper care it should provide you with years of use.

Also available from us:

- Helmet mounts
- Extension Cables
- Elastic Head Straps
- Spare/replacement batteries
- Replacement mounting O-Rings
- Replacement chargers
- Y-Cables (for attaching 2 lights to 1 battery)
- MagicShine 3 watt Tail-Lights