

### **Limited Warranty:**

The Combination Masthead with Deck Light LED Navigation Light is warranted for five years against any defects in material or workmanship. Any light that develops such defect within this period from date of purchase will be repaired or replaced at Signal Mate's option. The light should be returned to Signal Mate with an RMA (Return Merchandise Authorization) number, and the sales receipt. Also, please include a written statement of the failure, including when, and how it occurred. Warranty is void if the light is opened or otherwise tampered with. This warranty does not cover any shipping costs.

This limited warranty does not cover damage to this product due to misuse, accident or improper installation, nor does it cover any incidental or consequential expenses to the user resulting from malfunction, non-function or misuse of this product. It does not cover damage from lightning, or other natural disasters.

Signal Mate, LLC  
113 N. Collington Ave Baltimore, Maryland 21231  
Phone 410-777-5550 Fax 410-675-4927  
info@signalmate.com  
www.signalmate.com



Owner's Manual

Combination 3NM LED Masthead (Steaming)  
With White or Red LED Deck Light

Signal Mate Models:

3NMMHDKW  
3NMMHDKR



USCG 3 Nautical Mile Approval 33CFR 183.810  
Meets ABYC A-16 & 72 COLREGS  
Tested by IMANNA Laboratory Inc., Masthead June 7<sup>th</sup>, 2010

### ***Introduction:***

The 3NM Masthead (Steaming) light uses two white LEDs to obtain 225 degrees. The light is used for both power and sailboats while being propelled by machinery. The fixture also houses a LED foredeck light.

The lights provide constant brightness over the full operating range of 10 to 30 volts. This insures the light will meet or exceed the visibility requirements as the battery voltage drops from use.

### ***Wiring:***

Protect circuits with 1 amp. fuses or circuit breakers to both red wires.

Red wire 1 = battery positive (+) = masthead (225 degrees) light.

Red wire 2 = battery positive (+) = Deck Light

Black wires = battery negative (-).

### ***Specifications:***

**Visibility:** USCG 3 Nautical Mile Approval 33CFR 183.810

Meets ABYC A-16 & 72 COLREGS

**Voltage Range:** 10-30VDC

**LED Driver:** Constant Current

**LED:** Two Seoul Semiconductor P4

**Masthead (Steaming) Current Draw:** 0.160 amps at 12VDC

**Construction:** Hard anodized aluminum, polycarbonate lens.

**Wiring:** 2 1/2 feet UV outdoor 20 AWG wire.

**Weight:** 6.4 oz

**Height:** 3.25 inches

**Diameter:** 1.5 inches

### **LED DECK LIGHT**

**LED:** Three Seoul Semiconductor P4

**LUX Output:** 10 degree directional LED lens provides 3300 lux @ 3'.

Lights up a 8' diameter at 20' (90 lux) & 10' diameter at 30' (40 lux).

**Voltage Range:** 10 - 30 V DC.

**LED Driver:** Constant Current,

**Energy Efficient:** 0.300 amps at 12 VDC

**Construction:** Hard anodized aluminum, polycarbonate lens.

**Wiring:** 2 1/2 feet UV outdoor 20 AWG wire.

### **LIGHT FIXTURE -UV HDPE**

**Dimensions:** 2 x 7.75 inches

**Total Weight:** Fixture and lights 1lb 1 oz.

### ***Mounting Instructions:***

Always check your lights using a good 12v battery for operation and color before installing.

When mounting the fixture to a flat surface (Power boat) use two ¼ x 20" machine screws after wiring the two separate circuits.

For mounting the fixture to a curved surface (Sailboat mast) it may be desirable to curve the back of the light fixture at the top and bottom surfaces to the desired curve using the front roller of a belt sander or rasp file.

Note: Wrap the wires out of the way, and apply painter's tape to the front of the light fixture to protect the lights while shaping the curve.