

# OPTOLAMP®

New technology in signalization

## TRICOLOR NAVIGATION LED LAMP "NAV XXI - PLUS"

ULTRA LOW CONSUMPTION ELECTRONIC LED LAMP - UBC®  
PAT.DEF.

Thank you for choosing **OPTOLAMP®**. The development of the new compact model "*NAV XXI Plus*" is the result of 12 years experience in LED signalization. The **OPTOLAMP®** can achieve an excellent luminosity and penetration intensity even in the most adverse weather conditions. Due to its ultra-low energy consumption the **OPTOLAMP®** can work 40 nights with a 12V/75A battery without being recharged – approximate time in ideal conditions without calculating the normal battery auto-discharge. The **OPTOLAMP®** can work even with low battery tension on the boat. Ex.: with an 10,6V voltage the "*NAV XXI Plus*" continues with its maximum light intensity.

**Lamp with UBC® System:** ULTRA-LOW CONSUMPTION.

*Do not open the lamp. The OPTOLAMP® is a sealed unit, its led's can be misaligned missing its precise illuminating effect and the correct reference colors angle.*

**INSTALLATION:** (**OBS.:** Automatic light sensor: to test, cover it with a dark cloth, the unit will take some seconds to switch on).

- 1) Install with the lens upwards.
  - 2) Install **OPTOLAMP®** PERPENDICULARLY to the water line.
  - 3) The red sticker must be aligned with the boat's prow.
  - 4) It is advisable to install a 500 mA (0,5 A) fuse.
- (!) **DISCONNECT** the **OPTOLAMP®** when working on the boat's electric system to avoid tension peaks on the automatic switch on-off circuit (always in stand-by).

**POWER SUPPLY WIRES:** (Protected against polarity inversion).

RED WIRE \_\_\_\_\_ POSITIVE.  
BLACK WIRE \_\_\_\_\_ NEGATIVE.

For power supply use 0,75mm to 1,5mm wires.

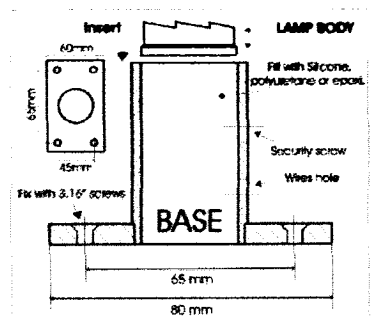
**CHARACTERISTICS:** (IP 56)

Weight _____	235gr.	Height: 135mm - ø: 60mm.
Power Consumption in 12V- UBC® _____	0,155A (155mA).	Maintenance _____ Free.
Power Supply (OPTION: 24V) _____	10,6V to 14,4V.	Light Source _____ Electronic.
Range _____	2,0 miles.	Leds B-life _____ 100000 h.

(HE Naval Systems reserves its rights to modify the characteristics of its products).

**OBS:** HE Naval Systems is not responsible for the misuse of the **OPTOLAMP®** and/or possible accidents. Please read the conditions of the "**HE Warranty**".

### BASE INSTALLATION



**Pioneer in Ultra Low Consumption (UBC®) Signalization and Illumination since 1998**  
**HE Naval Systems, www.optolamp.com // E-mail: optolamp@optolamp.com.br**