

1-3 NM WITH INTEGRATED SOLAR PANELS

SMART MARINE LANTERN LN13-MRS

With its sturdy construction and high corrosion-resistant aluminum alloy body, the **LN13-MRS** demonstrates resilience to even the most challenging meteorological conditions. The smart marine lantern operates independently with its built-in solar panels and battery, visible from a distance of 1-3 nautical miles, with LEDs compliant with IALA Recommendation E200-2 and a lifespan of over 100,000 hours. The smart marine lantern is available in yellow, red, green or white, in accordance with the color space defined by IALA Recommendation E200-1. It can be configured via IR remote such as flashing rate, flashing mode and intensity and synchronize its flashing pattern via its high-quality built-in optional GPS receiver.

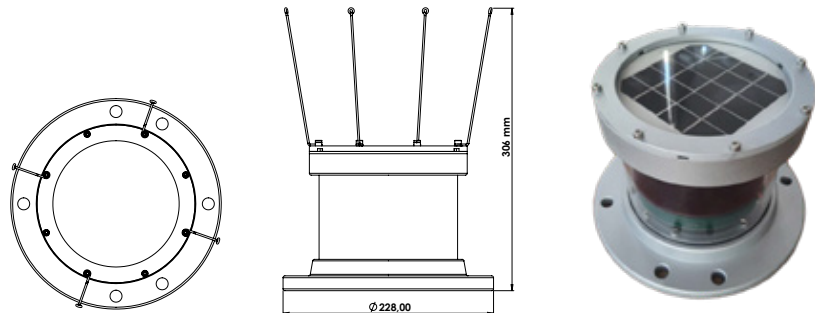
HIGH-QUALITY LENS GROUP

The **LN13-MRS** is equipped with precisely developed optical components to ensure accurate light distribution. Due to the optical components that are compliant with IALA Recommendation E200-1, E200-2 and E200-3, the light's vertical divergence angle is greater than 8 degrees, ensuring smooth visibility from all directions with its 360° lens.



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LN13-MRS

GPS SYNC



INTERNAL GPS (OPTIONAL)

The LN series smart marine lantern can flash synchronously using the built-in high-quality GPS receiver. Additionally, the **LN13-MRS** can calculate sunrise and sunset times for its current location every day, due to its Sync Start and Stop feature. It begins flashing at sunset time and stops at sunrise eliminating timing errors across various locations, slopes, angles, or light conditions, ensuring consistent flashing between sunset and sunrise. Multiple LN series smart marine lanterns in the same location can start and stop flashing simultaneously.





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HIGH EFFICIENCY SOLAR PANELS & MAINTENANCE FREE BATTERY

Equipped with high-efficiency solar panels, the smart marine lantern can generate up to 1.9W, enabling the internal battery to be fully charged without an external power source. The Li-Ion battery can reach up to 3.6V 5.8Ah and operates safely over extended periods without requiring maintenance.

LIGHT FEATURES

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| LIGHT SOURCE | LED |
| COLOR OPTIONS | Yellow, Red, Green, White |
| MAXIMUM LIGHT INTENSITY (CD) | Yellow 18.1 Cd, Red 14 Cd, Green 38.7 Cd, White 31.5 Cd |
| VISUAL RANGE (NM) | 1-3 NM @ 0.74 |
| HORIZONTAL LIGHT DISTRIBUTION (DEGREE) | 360° |
| VERTICAL LIGHT DISTRIBUTION (DEGREE) | >8° |
| FLASHING RATE | Up to 251 IALA compliant, User programmable (Optional) |
| FLASHING MODE | Light detection, automatic sunrise and sunset times (Optional) |
| INTENSITY | %25, %50, %75, %100, multiple intensity setting |
| CONTROL | IR remote, device control switch |
| LED LIFESPAN (HOURS) | >100000 |
| LED | High Quality Power LED |
| LENS | Single LED Side Emitting 360° Clear Polycarbonate |

ELECTRICAL FEATURES

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|--------------------------|--|
| NOMINAL VOLTAGE (12V) | 3.6 V |
| BATTERY CAPACITY | 5.8 Ah |
| BATTERY TYPE | Li-ion |
| CIRCUIT PROTECTIONS | Under and Over voltage, short circuit and temperature protection |
| AUTONOMY | >25 Days (16 hours Night - 8 hours Daytime / Flash Period 0.5 Sec On 3.5 Sec Off) |
| SOLAR PANEL TECHNOLOGY | Monocrystalline |
| SOLAR PANEL POWER (WATT) | 1.9 W |
| CHARGER | MPPT |
| BATTERY PROTECTION | Surge Current, Voltage and Short Circuit Protection |

PHYSICAL FEATURES

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|-------------------|--|
| BODY MATERIAL | High-Quality Acrylic Paint Coated Marine Grade Aluminum Base and top |
| SOLAR PANEL | Tempered Glass Protected |
| OPTICAL COVER | UV Resistant Acrylic PMMA |
| WATER RESISTANCE | IP 68 |
| TEMPERATURE RANGE | -30 + 60°C |
| FIXING | Standard 200mm Bolt Pattern |
| HEIGHT (MM) | 160mm |
| WIDTH (MM) | 225mm |
| WEIGHT (KG) | 3 kg |

OPTIONS AND STANDARDS

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|--------------------|---|
| STANDARDS | EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019 ETSI EN 301-489-1 V2.2.3, ETSI EN 301-489-52 V1.2.1, EN IEC 61000-6-2:2019, EN IEC 61000-6-1:2019 |
| QUALITY MANAGEMENT | ISO 9001:2015 |
| IALA COMPLIANCE | E200-1, E200-2, E200-3, G1065 |
| OPTIONS | GPS Sync, user programmable flashing period, 50 mm Pole Mount |