























MCL360

High energy efficiency

The new MCL360 LED compact lantern is one of the latest innovations developed by MSM to provide the highest energy efficiency with the most advanced technology. This lantern is the ideal equipment for on- and off-shore beaconing applications with the most energy demanding conditions thanks to the high power of its solar array and the large battery capacity.

Modular design

The MCL360 has a **modular design** available in 3 sizes. The range has different battery and solar charge capacities as well as different light ranges to adapt to the user's requirements. The enhanced optics gives greater light efficiency, covering a wide spectrum of ranges: from 4 to **11 real NM**, depending on the model.

Multiple remote control options

This lantern can integrate different monitoring and remote control options such as communication via GSM, UHF, satellite and AIS. The Global Netcom software developed by MSM is the ideal complement to monitor and remotely control the operating status of the lantern.





FFATURES

- High-efficiency luminous system. Up to 11 real nm (T=0.74).
- Vertical divergence up to 10° (50%l_o).
- · 360° horizontal output.
- Average operation lifetime over 10 years.
- Ideal self-contained lantern for energy demanding applications.
- · IP 68 watertightness degree (immersion resistant).
- Programming, configuration and operating status via PC, Bluetooth or IR programmer.
- Ready to integrate remote monitoring via GSM, UHF, satellite, or AIS AtoN.
- · GPS synchronization module included as standard.
- Autonomy without solar charging up to 700 hours (depending on the model).
- RS-232 serial port for setting adjustments by PC.
- · Designed according to IALA Recommendations.

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Display

An integrated OLED screen displays information about the operating status of the lantern

Double on/off control

The lantern can be switched on and off via the photocell integrated in the optic assembly and with an internal astronomical clock, increasing the reliability.

Smartcom360

Configuration software available for PC or mobile devices.



LED colour indicator

The corner pieces of the structure indicate the color of the light.

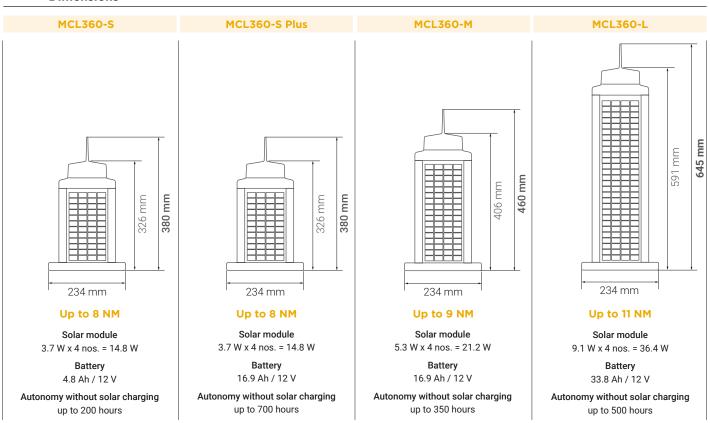
Easily removable transport handle

The transport handle is removable, preventing shades' projection on the solar modules.

Solar modules

Four high-performance monocrystalline solar modules cover the entire lateral surface of the lantern to optimize energy collection.

Dimensions















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Technical features

Light source: Ultra-bright LED diodes, with high-precision acrylic lenses.

LED average life: More than 100,000 hours.

Flash rhythms: 256 rhythms (6 nos. user selectable).

5°, 8° and 10°. Vertical divergence:

Batterv: Lead Crystal®, or Lithium as an option. Maintenance-free.

On/Off Switch: External battery switch

Lens cover: UV stabilised Polycarbonate. Integrated bird spike.

Anodised marine aluminium. Chasis:

Base: Polycarbonate.

Fixings: Standard (4 - 3 bolts in a 200 mm diameter).

Watertightness degree: IP 68.

Options

Remote control: GSM, Radio, satellite and/or AIS.

AIS Type 1 or Type 3.

RS-232, RS-422, RS-485 additional serial port or Modbus.

Redundant remote control system.

Charging port.

Vertical divergence up to 15°.

Impact sensor.

Tool kit.

Spare parts kit.

Fixing screws kit.

Other fixings available.

Other bird deterrent systems.

Other specifications available under request.

Possibility of incorporating a Powerbank.

SMARTCOM360: Configuration software

SMARTCOM360 is a software designed to facilitate the lantern configuration process, analysing the optical and energy performance.

This software automatically performs feasibility calculations, considering the features of the lantern (colour, divergence, energy capacity ...) and the user-editable parameters (range, flash characteristic, solar radiation ...). This not only validates the user configuration, but also proposes the best solution for each case.

An improvement which makes SMARTCOM360 an excellent solution to set the maximum number of parameters for ensuring optimal performance.

Main user-configurable parameters:

- Light/intensity range in nautical miles/candelas.
- Flash characteristics.
- Operating mode (night, night and day or emergency lantern).
- Switch on control and hibernation control by calendar.
- GPS synchronization and positioning.
- Communications system, remote monitoring and control.
- Test mode.

Software available for PC and mobile devices.



Specifications subject to change without previous notice. Luminous ranges will be affected depending on latitude, flash rhythms and chosen options.











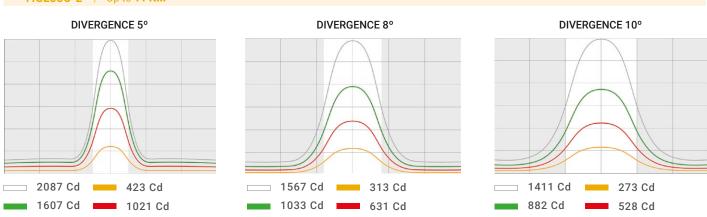


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Peak intensities (Cd)

MCL360-L | Up to 11 NM

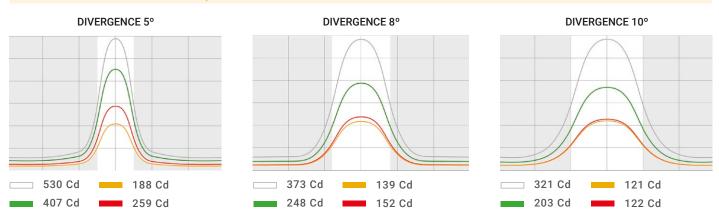


MCL360-M | Up to 9 NM

DIVERGENCE 5° DIVERGENCE 8° DIVERGENCE 10°

1060 Cd 376 Cd 747 Cd 278 Cd 643 Cd 242 Cd
815 Cd 517 Cd 496 Cd 303 Cd 406 Cd 243 Cd

MCL360-S & MCL360-Plus | Up to 8 NM



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