



MBL360

Excellent optical efficiency

The MBL360 is a LED marine flashing lantern of short and medium range, with a great optical efficiency and low consumption, fitted with LED diodes of high intensity, reaching a maximum range of 9 nautical miles.

Low consumption

Ideal for on- and off-shore beaconing applications requiring a low consumption, such as channels, harbour entrances, jetties, piers, buoys, structures, fish farms, etc.

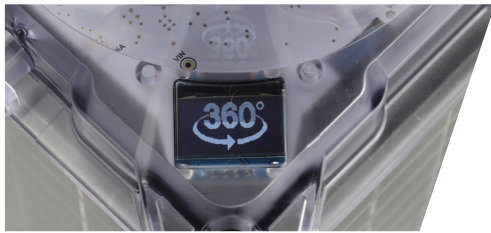
Integrated AIS

Its luminous source consists of an innovating lens system especially designed to take the maximum profit of LED diodes. Manufactured with high-quality and resistant materials, the MBL360 provides a long service life under harsh marine conditions.



FEATURES

- High-efficiency luminous system.
Up to 9 real nm ($T=0.74$).
- Vertical divergence up to 10° ($50\%I_0$).
- 360° horizontal output.
- Average operation lifetime over 10 years.
- IP 68 watertightness degree (immersion resistant).
- Programming, configuration and operating status via PC or IR programmer (as an option).
- Ready to integrate remote monitoring via GSM, UHF, satellite, or AIS AtoN.
- GPS synchronization module included as standard.
- RS-232 serial port for setting adjustments by PC.
- Designed according to IALA Recommendations.



Display

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



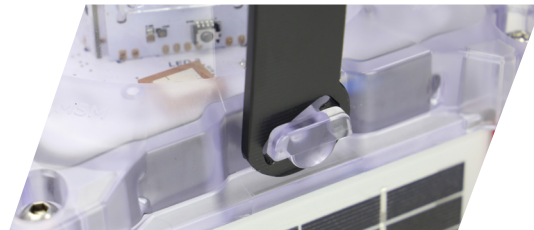
Smartcom360

Configuration software available for PC or mobile devices (as an option).



LED colour indicator

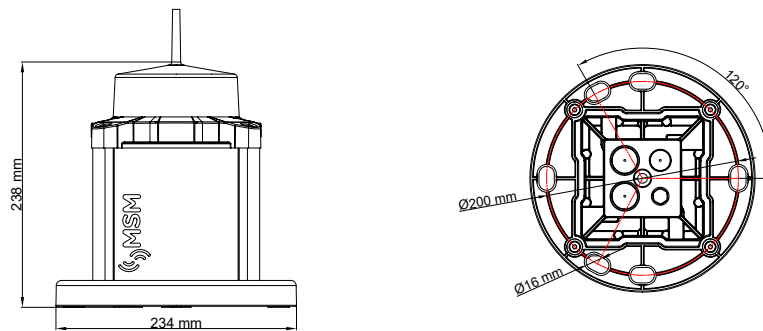
The corner pieces of the structure indicate the color of the light.



Easily removable transport handle

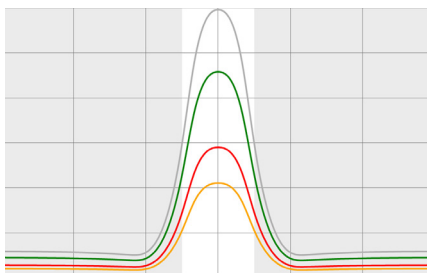
The transport handle is removable, preventing shades' projection on the solar modules.

■ Dimensions



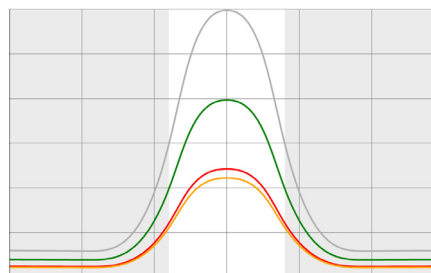
MBL360 | Up to 9 NM

DIVERGENCE 5°



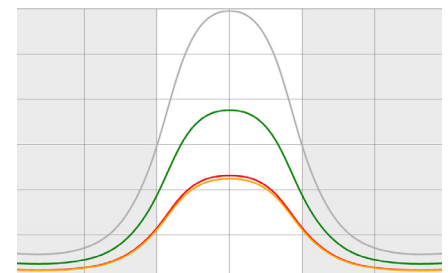
1060 Cd 376 Cd
815 Cd 517 Cd

DIVERGENCE 8°



747 Cd 278 Cd
496 Cd 303 Cd

DIVERGENCE 10°



643 Cd 242 Cd
406 Cd 243 Cd



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).
Vertical divergence:	5°, 8° and 10°.
Lens cover:	UV stabilised Polycarbonate. Integrated bird spike.
Chasis:	Anodised marine aluminium.
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.
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.

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.