



MODEL

M550

SOLAR LED MARINE LANTERN

15 TIMES BRIGHTER, THREE TIMES THE RANGE, HALF THE SIZE

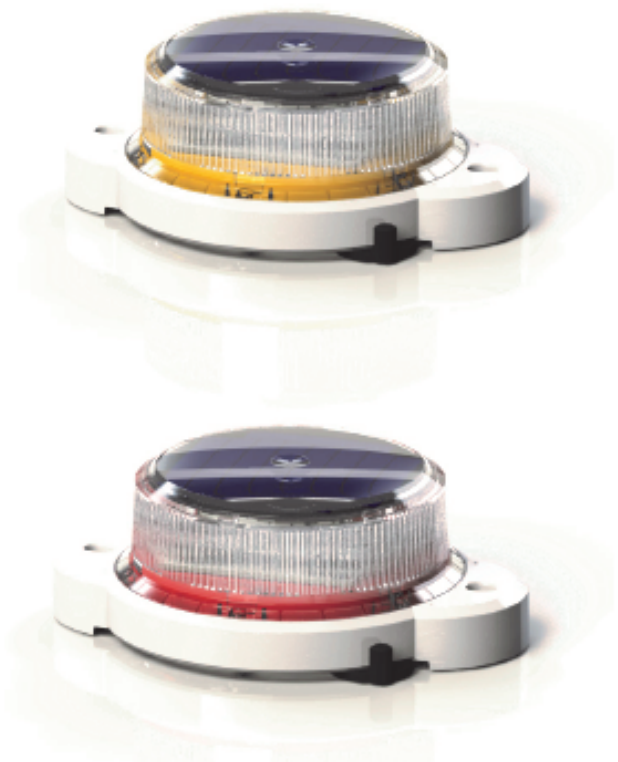
The M550 lantern offers excellent value and reliable operation for over five years. Ideal for marine aids-to-navigation (ATON), private aids-to-navigation (PATON), marina lighting, dock lighting, port lighting and more. To view performance in your installation location visit www.carmanahmarine.com/selector

- Installs in minutes; automatic "out of box" activation
- Up to 26 cd (IALA peak, white)
- Vertical divergence 8° (FWHM)
- Up to 40 user-adjustable flash patterns with ability to direct enter effective intensity. Automatic adjustment for Schmidt Clausen
- Operates on three high-temperature-rated NiMH AA batteries
- Next generation, energy-saving Automatic Light Control; five-day data trending regulates intensities for optimal performance throughout the calendar year and longer battery life
- Premium grade, UV resistant polycarbonate body and lens material
- Waterproof design; IP 68 immersion
- Ventilated battery compartment
- Life expectancy over 15 years; 3 year warranty
- USCG Paton 33 FR67 Class C
- With thousands of installations worldwide, Carmanah/Sabik solar LED lights operate year-round and are trusted by:

- | | |
|--|---|
| <ul style="list-style-type: none">• Australian Maritime Systems• Brazilian Naval Commission• Canadian Coast Guard• CETMEF, France• Port of Kandla, India• Maritime and Port Authority of Singapore• SERBA, Uruguay• Petrobras, Brazil | <ul style="list-style-type: none">• PDVSA, Venezuela• NOAA – National Data Buoy Centre• Panama Canal• Suez Canal, Egypt• Trinity House Light House Service, UK• United States Coast Guard• Vancouver Port Authority |
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LEVERAGING CUSTOM OPTICS, HIGH-EFFICIENCY SOLAR PANELS AND PREMIUM MATERIALS, THIS MINIATURE SOLAR LED MARINE LANTERN WEIGHS LESS THAN ONE POUND WHILE STILL PROVIDING UP TO THREE TIMES THE RANGE OF ITS POPULAR M502 PREDECESSOR. NOW ALSO WITH REPLACEABLE, RECYCLABLE BATTERIES.

> RANGE: 1 TO 3 NAUTICAL MILES



Pole-mount option also available

Carmanah/Sabik is backed by a worldwide network of distributors. To find yours visit carmanahmarine.com or call +1.250.380.0052 (toll-free US & Canada 1.877.722.8877)

REPRESENTED BY:



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OPTIONAL INFRARED PROGRAMMER



TOP VIEW: SWITCHED, FLANGE MOUNT



BOTTOM VIEW: SWITCHED, FLANGE MOUNT

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SPECIFICATIONS

	29 cd peak intensity (as per IALA rating); see table
	High Flux Surface Mount LED
Optical	IALA compliant chromaticities; Red, Green, White, Yellow, Blue
	Proprietary optical design
	40 flash patterns
Energy Collection	Best-in-class high-efficiency solar cells, 0.6 W panel
Battery	Three high-temperature NiMH AA batteries rated for -40 to 185 °F (-40 to 85 °C)
	Designed for 5 year battery life; Replaceable and recyclable
Energy Management System (EMS)	Intelligent, microprocessor EMS
Automatic Light Control 2.0 (ALC 2.0)	When enabled, ALC adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation
Programming	Programmable with optional infrared programmer
	Premium grade UV resistant, polycarbonate body and lens
Construction	Waterproof battery compartment with GORE® vent
	Colour indicator matches LED colour
Temperature	-22 to 122 °F (-30 to 50 °C) operating
	-40 to 176 °F (-40 to 80 °C) storage
Weight	Flange Mount: 0.8 lbs (0.37 kg), Pole Mount: 0.9 lbs (0.40 kg)
Mounting	Flange or pole-mount options. Refer to dimensional diagram for details
Wind Loading	140 knots (72 m/s)
Ice Loading	0.03 psi (22 kg/m ²)
Shock & Vibration	MIL-STD-202G (for Shock and Vibration)
	IP 68 Immersion, 24 hrs at 1 m (3 ft)
Ingress	MIL-STD-202G Immersion & damp heat cycling
	MIL-STD-810G rain & salt fog
Compliance	USCG PATON 33CFR66, 33CFR67 Class C
	RoHS; WEEE
	IEC 60945, FCC

ORDER KEY

MODEL	OUTPUT ▼	MOUNT ▼
M550	RED GREEN WHITE YELLOW BLUE	FLANGE-MOUNT FLANGE-MOUNT WITH SWITCH POLE-MOUNT*

Originally designed and built under contract with the U.S. Coast Guard, Carmanah Marine lanterns were the first solar-powered lanterns using light emitting diodes (LEDs) to enter the U.S. Navigational Aid System.

Today, thousands of Carmanah Marine lanterns are in use by Coast Guards, Navies, and Ports Authorities around the world.

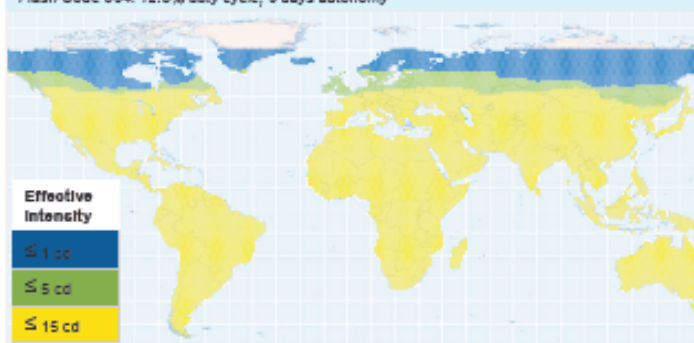
PEAK INTENSITY (IALA)

COLOUR	INTENSITY
Red	13 cd
Green	23 cd
White	29 cd
Yellow	25 cd
Blue	8 cd

Note: Peak IALA intensity dependent on location. To view performance in your installation location visit www.carmanahmarine.com/selector

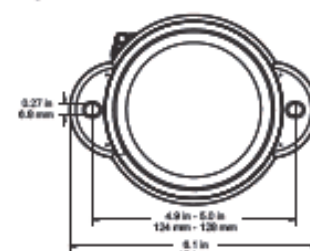
M550 RED: TYPICAL PERFORMANCE

Flash Code 064: 12.5% duty cycle, 5 days autonomy

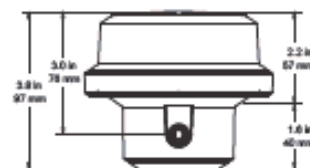
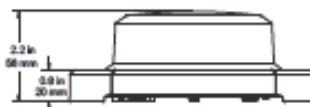


DIMENSIONS

Flange Mount



Pole Mount



With sleeve: 1.9 in (48 mm) pole ID
Without sleeve: 2.4 in (61 mm) pole ID
Overlap mount: 2.8 in (71 mm) pole OD



The management system governing the manufacture of this product is ISO 9001:2008 certified.

Specifications subject to local environmental conditions. Specifications may be subject to change.

Document: MARL_M550_Spec_RevF

US Patent Number 6573659. International patents apply.

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