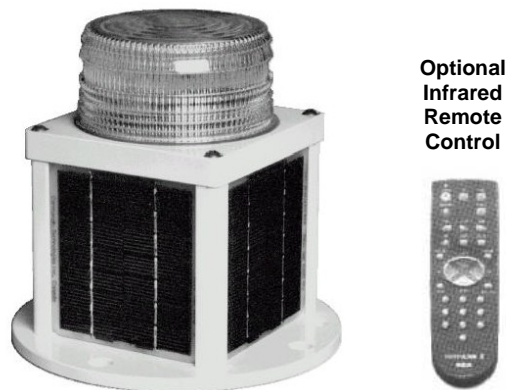

Solar-Powered Navigation Light



**Optional
Infrared
Remote
Control**

SOLAR-POWERED NAVIGATION LIGHT – MODEL 701 ITEM NO. 12-XX

Typical Applications:

- 3 Nm Aids to Navigation
- Private Aids to Navigation
- Port and Marina Entrances
- Offshore Structures
- Research Buoys

Features and Benefits:

- Range of 3 nautical miles (5.4 km)
- Extremely rugged, vandal resistant and waterproof
- Provides 5 years of maintenance free operation
- Replaces traditional T155 0.25 amp navigation lights
- Autonomy: runs for 15 days without any solar charging at 12.5% duty cycle
- User selection of 194 flash patterns with IR remote control
- Adjustable light intensity and on/off light levels
- Electronics are hermetically sealed in a unitized housing
- Battery compartment can be accessed for servicing if required
- Designed for U.S. Coast Guard
- Manufactured under ISO 9001 quality controls
- Three year pro-rated warranty
- Microprocessor provides intelligent charging of battery to extend life span
- Solar panels face in all directions collecting maximum solar energy
- Conforms to USCG regulations (88.15, 22 and 24)

The Model 701 is the world's most advanced, fully integrated solar-powered LED three-nautical-mile (5.4km) navigation light. It installs in minutes, is completely self-contained and requires no maintenance or servicing for the life of its power storage pack (up to 5 years). The 701 is the smaller and lighter version of the two models available in the 700 Series; it is intended for use in regions where solar illumination is greater than 1.5 hours of winter sunlight.

Originally designed and built under contract with the U.S. Coast Guard, the 700 Series are the first lanterns using light emitting diodes (LEDs) as the light source to enter the U.S. Navigational Aid System. Solar-powered, self-contained and completely sealed, the Model 701 has been used around the world for marking navigation buoys, port and harbor entrances, breakwaters -- any marine application requiring a marker light of three nautical miles of visibility.

The Technology:

Utilizing an innovative combination of solar and LED technology, the 701 charges during the day, even under cloudy conditions, and turns on automatically at night. Instead of traditional incandescent bulbs, the 701 uses an array of durable, high-intensity light emitting diodes (LEDs), which last approximately 100,000 hours. Other than replacing the 701's battery pack approximately every five years, the unit is designed to will operate flawlessly with no additional servicing or maintenance.

Due to its proprietary, unitized design, the 701 will withstand many years of harsh environmental conditions including submersion, vibration and intense sunlight.

The 701 is available in five colors that meet international chromaticity requirements for marine lighting: green, red, amber, white and blue. The unit can be ordered with any flash pattern required in the world today.



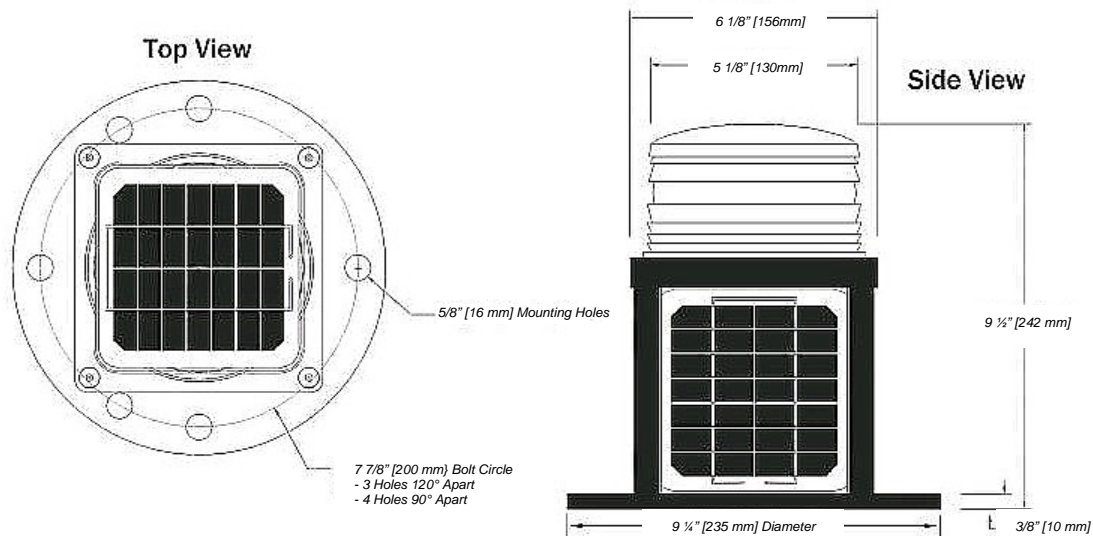
HENDERSON MARINE SUPPLY, INC.

800-523-1586 www.hendersonmarine.com

Specifications subject to change without notice. Not responsible for rust.

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Last Updated: 3/21/2003 12:28:00 PM

Solar-Powered Navigation Light



Specifications:

Specification	Parameter	Value
Range		3 Nautical Miles
Light Source	16 to 24 LEDs, depending on color	100,000 Hours of Life
Equivalent Peak Intensity	Green, Max. Intensity Setting	30 Candela
Battery Capacity		15 amp-hour
Uniformity of Output	Horizontal Plane, 360°	+/- 15%
Vertical Divergence	Vertical Plane, FWHM	7.5 degrees
Signal Color	Green, Red, Amber, White, Blue	Meets IALA Standards
Daylight Control	On/Off (adjustable)	70/120 Lux
Autonomy	100% Intensity 25% Intensity	150 Hours 600 Hours
Flash Timing Accuracy	Over Full Temperature Range	+/- 5%
Life Expectancy	4800 Hours/Year Operation, 12.5% Duty Cycle	>5 years
Ambient Temperature Range		-22° to 122° F (-30° to +50° C)
Waterproof		NEMA 6
EMI Immunity	VHF, Radar, and Static Discharge Protection	CE Approved
Mass		17.5 lbs. (6 kg.)
Solar Panel	4 Solar Panels	4.8 Watts
Latitude	Recommended Range of Latitudes for Effective Winter Performance	55° South to 55° North
Min. Daily Hrs of Winter Sunlight Required	100% Intensity 25% Intensity	3.0 Hours 0.75 Hours
Patents	U.S. Patents: 5,782,552 & 6,013,985 European Patent Application: 96925627.0	U.S. Patent Approved Other Patents Pending
Testing and Certification	Quality Assurance Electrical Certification	ISO 9001 CE Approved

