

LUMENCO MARINE

LM-100 | LM-100 IQ

MODULAR SOLAR
POWERED MARINE
BEACON

SMART BEACON WITH
DATA ACQUISITION & REMOTE
CONTROL CAPABILITIES



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MARINE BEACON

LM-100 | LM-100 IQ

Made in Canada, the Lumenco Marine LM-100 is an innovative marine beacon engineered with versatility in mind. Solar powered and helical pile mounted, the LM-100 is a completely autonomous navigation aid and water hazard warning system that can be mounted almost anywhere. The LM-100's configurable modular design allows it to be compliant with current national and international standards. Our systems use high power marine LED lights allowing 256 IALA flash settings and visibility up to 12 NM+. The LM-100 beacons can be configured to operate according to several parameters such as light level, water level and discharge rate only to name a few.

The LM-100 IQ SMART BEACON integrates the functionalities of the LM-100 while adding our smart controller unit which allows to track, store and broadcast data in real-time. The smart controller can also be used to control auxiliary systems remotely making it an ultra versatile tool for many different applications.

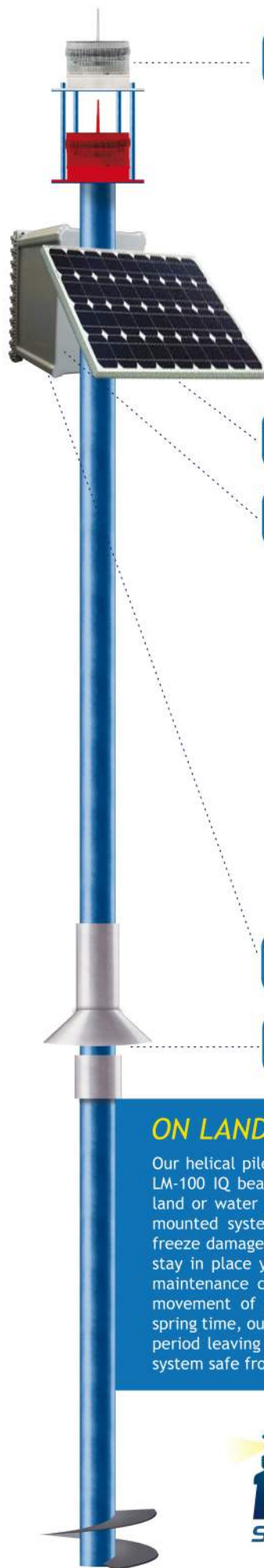
Applications

LM-100 MARINE BEACON

- Navigational aid for vessel operators and boaters to locate estuaries and facilitate port access points;
- Warning system to warn boaters of potential hazards such as shoals and rocks;
- Warning system to insure safe navigation along waterways in periods of low and high water levels.

LM-100 IQ SMART BEACON

- Real-time monitoring of hydrological parameters enabling optimal management of public infrastructure (dams, pumping stations, etc);
- Stocking & broadcasting hydrological and meteorological data in real-time;
- Automatic notification of critical events through SMS or Email;
- Remote smart activation of integrated and auxiliary systems.



High power marine LED lights with precision optics

- Visibility up to 12NM + with 256 IALA flash settings;
- Dynamic beacon activation can be configured to operate according to parameters such as light level, water level, water discharge rate etc;
- Marine light available in white, red, green, yellow, blue colors;
- Modular mounting plates allowing for various lighting configurations and installation of monitoring and communications equipment.



Completely autonomous solar powered system



Integrated smart controller (LM-100 IQ model only)

- Up to 16 analog and 16 digital ports allowing the monitoring of multiple parameters simultaneously;
- Up to 8 Digital outputs for remote control of integrated and auxiliary systems;
- Customizable operator dashboard for convenient visioning of critical parameters and control of beacon and auxiliary systems;
- Mobile application allowing users to obtain real time information through email or SMS alerts;
- Integrated GSM, HSPA or PSTM modem.



Waterproof IP68 compliant enclosure for maximum protection



Removable light mast mounted on helical pile anchoring system

ON LAND OR WATER!

Our helical pile anchoring system allows the LM-100 and LM-100 IQ beacons to be installed almost anywhere on land or water and on any terrain. Unlike concrete base mounted systems which are vulnerable to erosion and freeze damage, our anchoring systems are guaranteed to stay in place year after year thus significantly reducing maintenance cost. For in-water applications where the movement of ice is a preoccupation especially in the spring time, our system can be easily removed during that period leaving the helical pile in place and keeping the system safe from any damage.

