

IRIS

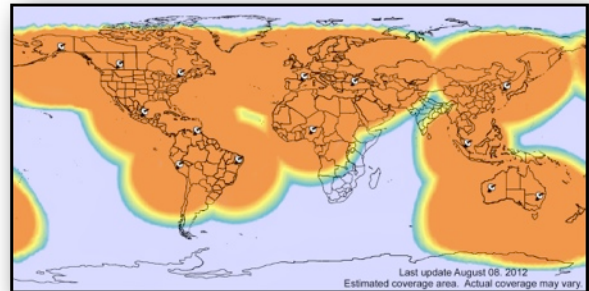
Deep Sea Satellite Locator/Telemetry Beacon with Integrated Strobe and Solar Battery Charger



Summary: IRIS is a low-cost, deep-sea satellite locator beacon with an integrated GPS receiver, strobe, and solar battery charger. It can serve as a remote locator for deep sea equipment which may surface unexpectedly, or become lost at sea during a recovery operation. It can also be used as a simple short-burst geo-referenced satellite data modem for remote instrumentation. The system is powered by a Lithium Ion battery pack which is constantly recharged during daylight hours via integrated solar cells. An integrated strobe light with day/night sensor helps aid nighttime recoveries, and a seawater switch puts the beacon to sleep while underwater.

System Specifications (Standard Version)

- Dimensions: 3.25" dia. x 6"L (w/solar)
- In-Air Weight: 2 lbs (standard battery)
- Rated Depth: 6,500ft (2,000m)
- Housing: Anodized Aluminum & Urethane
- Satellite System: Globalstar/SPOT Satellite Network (see coverage map on right)
- Location Method: Integrated GPS receiver.
- Message Content: Date, Time, Latitude, Longitude, Optional user defined data (42 bytes per message).
- Message Delivery: Email and SMS.
- Message Frequency: Adjustable from twice per hour, to once every 4 hours.
- Service Fees: \$100 USD Annual subscription, including unlimited GPS position messages. Optional data telemetry \$0.10 per message. Fees subject to change. Consult SPOT/Globalstar for more information.
- Strobe: 2W Daylight White Side-Emitting LED, visible at 3-5nmi, double burst every 2 secs.
- Standard Battery: 5200mAh Lithium Ion with charge/discharge protection
- Endurance: Unlimited at 1 message every 2 hours with normal solar recharging. In total darkness, 1 week at one message per hour (170 messages). 2 years in sleep mode.



Configuration Options

- Extended depth housing
- Extended Battery (2-4x dark endurance)
- No Battery (externally powered via integrated connector)
- Other custom housing, potting, battery, and configuration options available upon request.