

# Iridium + GPS + LED flasher + 11km + BT4.0 + 10 years = **APOLLO**

## SUBMERSIBLE IRIIDIUM GPS-LED FLASHER COMBO

The Apollo is an independently powered, self-contained mooring beacon with the power of an ultra-bright LED Flasher combined with satellite communications. Get notification of the Apollo's arrival at the surface from anywhere on earth via the Iridium Low Earth Orbit satellite communication system. Once you arrive on site, you will get unparalleled visibility even in the worst conditions. This beacon has been designed to meet and exceed your expectations.

Apollo is fully submersible and has been rated to 11,000 m (36,089 ft) below sea level. That includes Challenger Deep. The solid state surface sensor provides a measure of reliability unavailable in mechanical methods. The Apollo provides superior functionality and flexibility in a miniaturized package.

### Key Features

- **Combination Iridium GPS/Flasher**
- **Up to 10 year deployment lifetime** (reg. alkaline batteries)
- **Command to turn flasher ON via Iridium**
- **Full ocean depth rating (11,000 m)**
- **All titanium enclosure**
- **Flexible turn-on options**
- **Remote Head option available**
- **Configuration via BT 4.0 or Iridium**

The Apollo is designed to meet to exceed your operational requirements for an ultra deepwater submersible beacon. The LED flasher and Iridium communication provide the best in global and local retrieval options. All Xeos products are fully backed by a comprehensive warranty and excellent support.

To arrange a demo or to learn more about our products, please contact us at the numbers below.



## **Xeos** Technologies Inc **Data Telemetry Specialists**

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# APOLLO



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## TECHNICAL SPECIFICATIONS\*

### Lifetime Examples

#### 10 YEARS UNDERWATER

<i>Iridium/GPS (once per hour)</i>	322 days
<i>Flasher (once per 10 seconds)</i>	121 days
<i>Combination</i>	88 days

#### 5 YEARS UNDERWATER

<i>Iridium/GPS (once per hour)</i>	508 days
<i>Flasher (once per 10 seconds)</i>	190 days
<i>Combination</i>	138 days

#### 1 YEAR UNDERWATER

<i>Iridium/GPS (once per hour)</i>	656 days
<i>Flasher (once per 10 seconds)</i>	246 days
<i>Combination</i>	179 days

\* Technical Specifications subject to change without notice.

### Functionality

<i>Base Function</i>	2-way Iridium communication LED Flasher
<i>Programmable Intervals</i>	GPS Location & transmission of data Flash Options: 1, 2, or 3 flashes; 10 optional timer settings (1-30 sec)

### Electrical

<i>Battery Supply</i>	Standard long tube: 7 D alkaline batteries - Reed switch activation - Solid state surface detection for surface detection
<i>ON/OFF Controls</i>	- Selectable tilt sensor - Command to turn flasher ON during recovery (default one flash every 10 seconds)

### LED Technology

<i>LED</i>	3.0 watts, single emitter type
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### Communications

<i>Iridium</i>	9603 Iridium Transceiver, SBD
<i>Antenna</i>	Xeos proprietary antenna, designed to withstand extreme pressure environments
<i>Local</i>	Bluetooth Low Energy (BTLE)

### Environmental

<i>Operating Temperature</i>	- 20°C to + 60°C
<i>Storage Temperature</i>	- 40°C
<i>Depth Rating</i>	Submersible to 36,089 ft (11,000m)

### Compatible with

<i>XeosOnline™ Console</i>	Web-based control & tracking
<i>BTLE Android App</i>	Diagnostics and Commands

### Mechanical

<i>Dimensions</i>	53.02 cm L x 5.08 cm diam (20.875" L x 2" diam)
<i>Weight</i>	including batteries: 2562 g – In water, 3637 g – Out of water
<i>Material</i>	Grade 9 Titanium
<i>End Cap</i>	Screw off, O-Ring sealed
<i>Lens</i>	Glass

### Who are we?

Xeos is a leading technology firm created by visionaries with a passion for excellence. Xeos prides itself on a pioneer mentality, always striving to create superior technological solutions to tracking and monitoring problems. For more information on our COTS and custom developments please contact us at the numbers below.

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