

# World's Most Capable Oceanographic Beacon

SUBMERSIBLE IRIIDIUM GPS LED FLASHER BEACON

The Apollo X is an independently powered, self-contained GPS and Iridium communications recovery beacon with the power of an ultra-bright LED Flasher. Get notification of the Apollo X's arrival at the surface from anywhere on Earth via the Iridium Low Earth Orbit satellite communication system. Once you arrive on site, the LED flasher will provide unparalleled visibility, even in the worst conditions.

The Apollo X is fully submersible and has been rated to 11,000 m (36,089 ft) below sea level. During surfacing events, the water sense detection circuit provides a measure of reliability unavailable in mechanical methods. Simply put, the Apollo X provides superior functionality and flexibility in a miniaturized package.

## Key Features

- Iridium transceiver to send accurate GPS locations
- 2-way command & control
- Three sizes: Apollo X7, Apollo X3, and Apollo X1
- Long lasting operational life
- Pressure tolerant antenna made of titanium and glass
- Configuration & setup via smartphone with Bluetooth
- Flexible activation options: Reed switch, tilt switch, and conductivity water sense

The Apollo X's LED flasher and Iridium communication provide the best combination in global and local retrieval options for a deepwater submersible beacon. All Xeos products are fully backed by a comprehensive warranty and excellent support.



36 Topple Drive  
Dartmouth, NS, Canada  
B3B 1L6

Tel: 902.444.7650  
sales@xeostech.com  
www.xeostech.com



# APOLLO X

# APOLLO X

## TECHNICAL SPECIFICATIONS<sup>1</sup>

### Apollo X Models

#### APOLLO X7

*Battery Supply* 7 D cell alkaline batteries

*Length* 52.91 cm (20.83")

*Weight* 3685 g - in air  
2620 g - in water

*Depth Rating* 11,000 m

*Iridium Tx Power* 800 mW (avg. 30 sec)

*Underwater Power* 270 µW

#### APOLLO X3

*Battery Supply* 3 SAFT LSH20 D-cell batteries

*Length* 28.32 cm (11.15")

*Weight* 1825 g - in air  
1255 g - in water

*Depth Rating* 11,000 m

*Iridium Tx Power* 800 mW (avg. 30 sec)

*Underwater Power* 270 µW

#### APOLLO X1

*Battery Supply* 1 SAFT LSH20 D-cell battery

*Length* 14.66 cm (5.77")

*Weight* 590 g - in air  
280 g - in water

*Depth Rating* 6,000 m

*Iridium Tx Power* 1200 mW (avg. 30 sec)

*Underwater Power* 270 µW

### Apollo X Deployment Example

#### Subsurface Deployment of 1 year

Lifetime at surface:

Apollo X7: **144 days**

Apollo X3: **138 days**

Apollo X1: **45 days**

GPS position interval of 1 hour

Iridium message interval of 1 hour

Flasher setting of 1 flash every 10 seconds

### Functionality

*Base Function* 2-way Iridium communication

GPS Location & transmission of data

Ultra Bright LED Flasher

### LED Technology

*LED* 3 watts, single emitter type

Flash Options: 1 to 4 flashes; adjustable intervals (1-60 sec)

### Communications

*Iridium* 9603 Iridium Transceiver, SBD

*Antenna* Xeos proprietary antenna, designed to withstand extreme pressure environments

*Local* Bluetooth Low Energy (BTLE)

### Environmental

*Operating Temperature* -40°C to +60°C

### Compatible with

*XeosOnline* Web-based platform for tracking & monitoring

*XeosBeacon App* Bluetooth app for setup, diagnostics, and commands

### Mechanical

*Diameter* 5.08 cm (2.00")

*Material* Titanium with a glass dielectric antenna component

*End Cap* Screw off, O-Ring sealed

### Apollo X Remote Head Option Available:<sup>2</sup>



*Power Supply* 6-28 VDC, External power supply required

*Dimensions* 13.05 cm L x 5.08 cm D (5.14" L x 2.00" D)

*Weight* 557 g - in air  
390 g - in water

*Depth Rating* 7500 m

<sup>1</sup> Technical Specifications subject to change without notice.

<sup>2</sup> Cables and submersible battery packs also available.

