

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.



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APOLLO X

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TECHNICAL SPECIFICATIONS¹

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:²



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

¹ Technical Specifications subject to change without notice.

² Cables and submersible battery packs also available.

