

# Totally Deep, Totally Global

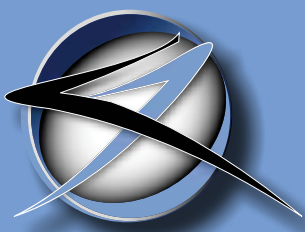
## SELF-CONTAINED SUBMERSIBLE ARGOS BEACON

The XMA-7500 is an independently powered, self-contained Argos beacon that is fully submersible to 7,500m (24,606 ft). This beacon has been designed to protect your valuable assets and make their recovery even easier. The use of Argos makes your assets trackable from anywhere in the world and is packaged in an all titanium enclosure with a solid state surface sensor and optional remote head.

### Key Features

- Miniaturized design in an all titanium enclosure
- User settable transmit frequencies
- Available remote head on 6' tether
- Solid state surface sensor
- Low power consumption for extended deployments
- Global coverage through the Argos system

The XMA-7500 is designed to meet or exceed your operational requirements for an ultra deepwater submersible beacon. 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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# XMA-7500

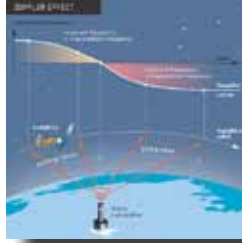
# XMA-7500



## TECHNICAL SPECIFICATIONS\*

### How Argos Works

The Argos system calculates locations by measuring the Doppler Effect. The Doppler Effect is the change in frequency of a sound wave or electromagnetic wave that occurs when the source of vibration and observer are moving relative to each other.



The classic case is when an observer notices a change in the sound when a train approaches and moves away. Similarly, when the satellite approaches a transmitter, the frequency of the transmitted signal measured by the onboard receiver is higher than the actual transmitted frequency, and lower when it moves away. Each time the satellite instrument receives a message from a transmitter, it measures the frequency and time-tags the arrival. The Argos processing centers compute the locus of possible positions for the transmitter.

Courtesy [www.argos-system.org](http://www.argos-system.org)

### Who are we?

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

### XMA-7500 Specifications

#### Functionality

**Base Function:** Fully compliant Argos PTT  
**User Programmable Functions:** User ID, Repetition Period, Transmit Frequency, Data Message

#### Electrical

**Supply Voltage:** 7 x CR123A lithium batteries  
**Sleep Current:** <30uA  
**Transmit Current:** 325mA @ 800mW Output

#### RF

**Output Power:** From 500mW to 1 watt (voltage dependant)  
**Antenna Output Impedance:** 50 ohms nominal  
**Channels:** User Selectable, 401.63 to 401.656 MHz.

#### Programming Interface

**Serial Interface:** TTL level 9600 baud  
(Firmware bootloader standard)

#### Mechanical\*

**Dimensions:** 38.2 cm L x 2.86 cm diam. (15.04" L x 1.12")  
**Weight:** 431g - in water  
644g - out of water  
**Material:** All Titanium

#### Environmental

**Operating Temperature:** - 40°C to + 60°C  
**Depth Rating:** Submersible to 24,606ft (7,500m)

\* Technical Specifications subject to change without notice.

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