

Global Hydroacoustic Positioning Systems Market Growth 2026-2032

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Abstracts

The global Hydroacoustic Positioning Systems market size is predicted to grow from US\$ 1480 million in 2025 to US\$ 2426 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

The global production of Hydroacoustic Positioning Systems was reached 33,000 units in 2025, with an average price of US\$48,000 per unit.

Hydroacoustic Positioning Systems is a specialized technology used for tracking and locating underwater targets. It is widely used in marine scientific research, seabed topography mapping, ROV/AUV operation, and underwater construction. The system typically incorporates acoustic positioning methods such as ultra-short baseline (USBL), short baseline (SBL), or long baseline (LBL), calculating the target's relative position in the water through sound wave transmission between an underwater transponder and a receiver on board. These systems can integrate depth, tilt, and GPS sensor information to improve positioning accuracy and real-time response capabilities, making them an indispensable tool for high-precision underwater operations.

Currently, commonly used underwater positioning methods include acoustic navigation and inertial navigation. Acoustic positioning (such as LBL/USBL) relies on underwater acoustic beacon ranging and can provide meter-level accuracy; inertial navigation (INS) can estimate the track in real time, but drift increases over time. Multi-sensor-assisted positioning technologies such as geomagnetism, imagery, and topology are also under research. Research literature indicates that using DVL (Doppler velocimeter) to assist INS or introducing rasterized Bayesian estimation can improve accuracy.

In acoustic positioning, digital spread spectrum and broadband signal time difference

estimation techniques improve ranging accuracy; real-time sound velocity profile compensation technology can correct sound ray bending errors. Meanwhile, Ultra-short baseline (USBL) systems combining inertial and satellite positioning (buoys or surface vessels with GPS) can reduce surface drift errors. Advances in micro-inertial navigation chip technology have also led to low-cost, high-precision INS (such as FOG and MEMS).

Acoustic positioning systems are commercially mature, with Sonardyne, Kongsberg, and IXBLUE providing LBL/USBL equipment. Domestic marine equipment companies and research institutes have also launched underwater acoustic positioning instruments. Inertial navigation and acoustic fusion navigation systems (such as INS+DVL+USBL) are gradually becoming commercialized. Integrated navigation systems are already available on the market from companies such as Teledyne Gavia and SAAB Sweden. Long-term positioning algorithms (such as particle filtering and tightly coupled GNSS/INS) are being adopted by military and civilian aviation and unmanned systems. The sound velocity profile in the deep-sea environment is complex and variable, requiring precise calibration; otherwise, errors accumulate. Underwater sensors are susceptible to contamination and have a high probability of failure. Expensive inertial and acoustic equipment drives up costs, limiting their widespread adoption. The application of artificial intelligence technology in decision-making and navigation during autonomous navigation missions still requires extensive validation.

Underwater platforms are becoming increasingly intelligent, making the formation of underwater wireless sensor networks (UWSNs) a trend. Combining AUV swarms, UUVs, fixed sensor nodes, and the Internet of Things (IoT) concept to build an 'Underwater Internet of Things' (IoUT). Machine learning (ML) algorithms are being applied to channel estimation and adaptive scheduling. Research on multi-agent cooperation and formation control is active.

AI technology is bringing about a revolution in signal processing and network management. For example, deep learning can be used for equalization and identification of complex underwater acoustic channels, improving communication reliability; reinforcement learning is used to optimize resource allocation and routing decisions. Self-organizing network technology in multi-AUV swarms enables dynamic topology communication, and some research has already achieved multi-node mesh network experiments. Other innovative areas such as biomimetic sonar (mimicking dolphin echolocation) and underwater acoustic reference station clusters are also under exploration.

The military and research institutions have taken the lead in deployment, such as the US Navy and DARPA investing in multiple automated underwater systems (MANTA program). Smart ocean companies in Shenzhen, China, are exploring AUV IoT applications. Commercially, seabed sensor networks and autonomous vessels (such as seabed mining vehicles) are beginning to adopt integrated communication and positioning modules. Intelligent algorithm platforms (some open-source, such as the UWsim simulation environment) and commercial AI chips are also providing technical support to the industry.

Currently, the manufacturing cost and complexity of underwater acoustic equipment remain high, and some key components in the industry chain (such as deep-sea piezoelectric ceramics and low-noise amplifiers) are heavily reliant on international technology. Product homogenization is severe in the market, making it difficult to scale up niche applications; at the same time, the harsh marine environment leads to high equipment maintenance and upgrade costs. In terms of policy risks, it is necessary to consider environmental regulations (noise pollution) and restrictions on cross-border communication deployments due to maritime sovereignty.

LP Information, Inc. (LPI) ' newest research report, the "Hydroacoustic Positioning Systems Industry Forecast" looks at past sales and reviews total world Hydroacoustic Positioning Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydroacoustic Positioning Systems sales for 2026 through 2032. With Hydroacoustic Positioning Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydroacoustic Positioning Systems industry.

This Insight Report provides a comprehensive analysis of the global Hydroacoustic Positioning Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydroacoustic Positioning Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydroacoustic Positioning Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydroacoustic Positioning Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydroacoustic Positioning Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydroacoustic Positioning Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ultra Short Baseline Positioning

Short Baseline Positioning

Long Baseline Positioning

Segmentation by Deployment Method:

Underwater Engineering Equipment

Underwater Robots

Seabed Observation Network

Others

Segmentation by Product:

Underwater Acoustic Positioning Beacon

Underwater Acoustic Positioning Base Station

Segmentation by Application:

Military

Industrial

Consumer

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

EvoLogics

Konsberg

LinkQuest

Sonardyne

Exail

Teledyne Benthos

Blueprint Design

The 715th Research Institute of China State Shipbuilding Corporation Limited

Harbin Engineering University

The Institute of Acoustics of the Chinese Academy of Sciences

Northwestern Polytechnical University

Jiaxing Acoustics Technology

Shenzhen Smart Ocean Technology

Whale Wave Technology

Shenzhen Zhilan Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydroacoustic Positioning Systems market?

What factors are driving Hydroacoustic Positioning Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hydroacoustic Positioning Systems market opportunities vary by end market size?

How does Hydroacoustic Positioning Systems break out by Type, by Application?

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