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Global Underwater Acoustic Positioning and Communicating Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Underwater Acoustic Positioning and Communicating Systems market size is expected to reach $ 3680 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Underwater Acoustic Positioning and Communicating Systems refer to integrated systems that use acoustic waves—rather than GNSS or electromagnetic signals—to enable underwater positioning (USBL/SBL/LBL) and data communication between submerged assets and surface or subsea nodes. A typical system comprises acoustic modems, transponders/transceivers, beacons or release/recovery devices, and topside software for synchronization, navigation fusion, and network management. In 2024, depending on whether positioning and communication are counted separately or as a combined system market, the addressable global market is generally assessed at USD 2 billion, reflecting sustained demand from offshore energy, subsea engineering, and ocean observing programs, with growth driven by AUV/ROV deployment and long-term subsea monitoring.

Representative international suppliers include Sonardyne (USBL/LBL positioning and transponders), EvoLogics and LinkQuest (acoustic modems), Blueprint Subsea (USBL and beacon-based systems), and Teledyne Benthos (modems, beacons, releases). In China, system-level capabilities are represented by organizations such as CSSC 715, Institute of Acoustics, Chinese Academy of Sciences, and engineering-oriented firms including Hi-Target Surveying Instrument. Upstream supply chains center on piezoelectric ceramics (PZT) for transducers, underwater connectors, pressure-resistant housings (titanium or high-grade alloys), and industrial electronics; midstream players integrate these into modems, transponders, and positioning systems, while downstream

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integrators deliver turnkey subsea solutions.

Downstream applications span offshore oil and gas (subsea equipment control, ROV/AUV navigation, pipeline and field monitoring), offshore wind (foundation installation, cable laying and inspection), marine minerals (deep-sea survey and pre-mining investigation), marine communications and observation networks (long-term seabed monitoring), scientific research and environmental monitoring, and marine fisheries (smart aquaculture and asset tracking). Typical customers include oil and gas operators, offshore wind developers, marine engineering contractors, oceanographic institutes, government monitoring agencies, and increasingly operators of autonomous underwater platforms. Across these sectors, procurement is usually system-oriented, emphasizing reliability, positioning accuracy, lifecycle support, and proven offshore deployment capability rather than standalone device performance.

This report studies the global Underwater Acoustic Positioning and Communicating Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Underwater Acoustic Positioning and Communicating Systems, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Underwater Acoustic Positioning and Communicating Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Underwater Acoustic Positioning and Communicating Systems total market, 2021-2032, (USD Million)

Global Underwater Acoustic Positioning and Communicating Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Underwater Acoustic Positioning and Communicating Systems total market, key domestic companies, and share, (USD Million)

Global Underwater Acoustic Positioning and Communicating Systems revenue by player, revenue and market share 2021-2026, (USD Million)

Global Underwater Acoustic Positioning and Communicating Systems total market by

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Type, CAGR, 2021-2032, (USD Million)

Global Underwater Acoustic Positioning and Communicating Systems total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Underwater Acoustic Positioning and Communicating Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include China Shipbuilding Industry Corporation 715 Research Institute, Institute of Acoustics, Chinese Academy of Sciences, Jiaxing Zhongke Acoustics Technology, Shenzhen Smart Ocean Technology, Aohai Technology, Zhilan Technology, Hi-Target Surveying Instrument, Sea Eagle, Xingtian Ocean, Beijing United Sound Ocean Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Underwater Acoustic Positioning and Communicating Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Underwater Acoustic Positioning and Communicating Systems Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Underwater Acoustic Positioning and Communicating Systems Market, Segmentation by Type:

Acoustic Communication System

Acoustic Positioning Systems

Acoustic Recovery

Global Underwater Acoustic Positioning and Communicating Systems Market, Segmentation by Service:

Hardware

Software

Service

Global Underwater Acoustic Positioning and Communicating Systems Market, Segmentation by Application:

Offshore Oil and Gas

Offshore Wind Power

Marine Minerals

Marine Communications

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Scientific Research and Environmental Monitoring

Marine Fisheries

Other

Companies Profiled:

China Shipbuilding Industry Corporation 715 Research Institute

Institute of Acoustics, Chinese Academy of Sciences

Jiaxing Zhongke Acoustics Technology

Shenzhen Smart Ocean Technology

Aohai Technology

Zhilan Technology

Hi-Target Surveying Instrument

Sea Eagle

Xingtian Ocean

Beijing United Sound Ocean Technology

Huihai

Blueprint Design

LinkQuest

Sonardyne

Teledyne Benthos

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Key Questions Answered

1. How big is the global Underwater Acoustic Positioning and Communicating Systems market?
2. What is the demand of the global Underwater Acoustic Positioning and Communicating Systems market?
3. What is the year over year growth of the global Underwater Acoustic Positioning and Communicating Systems market?

4. What is the total value of the global Underwater Acoustic Positioning and Communicating Systems market?

5. Who are the Major Players in the global Underwater Acoustic Positioning and Communicating Systems market?
6. What are the growth factors driving the market demand?

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