

Multi-Beam Echo Sounder Market by Platform (Crewed vs. Uncrewed Vessels, Surface vs. Underwater Vessels), Application (Seabed Mapping, Route Survey), End User (Hydrographic Agencies, CPIW, Maritime Construction), Depth - Global Forecast to 2030

Market Report | 2025-08-21 | 300 pages | MarketsandMarkets

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Report description:

The multi-beam echo sounder market is expected to reach USD 3.54 billion by 2030, from USD 2.69 billion in 2025, with a CAGR of 5.7%. Rising technological advancements and evolving market conditions are the key market drivers.

<https://www.marketsandmarkets.com/Images/multibeam-echo-sounder-mbes-systems-market.webp>

"By depth, shallow is expected to be the fastest-growing segment."

The rapid growth in this segment can largely be attributed to the increasing number of near-shore infrastructural projects, including harbor construction, coastal defense structures, and offshore renewable installations, such as detailed bathymetric mapping in shallow waters. Shallow multi-beam echo sounder systems are smaller, less power-intensive, and more affordable than deepwater systems, enabling broader adoption by commercial operators, port authorities, and environmental groups. Additionally, these systems are increasingly combined with smaller survey boats, unmanned surface vehicles (USVs), and autonomous underwater vehicles (AUVs), making them more suitable for routine and quick mapping tasks. The segment also benefits from stricter safety and environmental regulations in coastal waters that require regular seabed monitoring to prevent navigational hazards and protect delicate marine ecosystems. Advances in real-time data collection and multi-sensor fusion allow shallow-water multi-beam echo sounder solutions to achieve resolution comparable to deepwater systems, making them essential in busy shipping lanes.

"By application, seabed mapping is expected to be the fastest-growing segment."

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This segment is expected to experience the fastest growth among multi-beam echo sounder applications because of its central role in enabling safe underwater navigation, marine spatial planning, and deployment of subsea assets. Global demand is increasing due to offshore wind power, oil & gas, subsea telecommunication, and major port upgrade projects. Seabed mapping supports engineering planning, precise dredging, route planning, and baseline environmental surveys, providing the high-quality data necessary for operational and regulatory decisions. Governments also fund growing seabed mapping initiatives to strengthen maritime sovereignty claims and improve disaster preparedness through better coastal and underwater topography data. Advances in multi-beam echo sounders, such as broader swaths, more advanced beam steering, and noise filtering automation, have considerably improved mapping resolution and efficiency. Additionally, the increased availability of autonomous and remotely operated survey platforms lowers operational costs, making routine and high-resolution mapping possible in remote or challenging locations.

"Europe is expected to be the leading regional market."

Europe is expected to be the largest market for multi-beam echo sounders due to its advanced maritime infrastructure, strong regulatory environment, and technological innovation. The region benefits from a robust presence of MBES manufacturers, research institutions, and service providers worldwide, especially in Norway, the UK, France, and Germany. Increasing investments are being allocated to offshore renewable energy, Arctic missions, naval upgrades, and multi-national hydrography supported by the EU. Policies like the European Maritime and Fisheries Fund (EMFF) and environmental regulations such as the Marine Strategy Framework Directive are launching large-scale seabed survey programs for environmentally sustainable ocean resource utilization. Offshore energy providers and port authorities across Europe are leading the adoption of multi-beam echo sounder systems with autonomous survey platforms, enhancing efficiency and coverage.

The break-up of the profile of primary participants in the multi-beam echo sounder market:

-□By Company Type: Tier 1 - 35%, Tier 2 - 45%, Tier 3 - 20%

-□By Designation: C-level - 25%, D-level - 35%, Others - 40%

-□By Region: North America - 30%, Europe - 20%, Asia Pacific - 40%, Rest of World-20%

Kongsberg (Norway), Teledyne Technologies Incorporated (US), NORBIT ASA (Norway), R2Sonic LLC (US), and Tritech International Limited (UK) are the top five players in the multi-beam echo sounder market. These companies offer connectivity applicable to various sectors and have well-equipped and strong distribution networks across North America, Europe, Asia Pacific, the Middle East and Africa, and Latin America.

Research coverage:

The study explores the multi-beam echo sounder market across various segments and subsegments. It aims to estimate the size and growth potential of this market in different segments based on product, application, technology, and region. It also features an in-depth competitive analysis of the key players in the market, including their company profiles, essential insights related to their solutions and offerings, recent developments, and key market strategies. The report segments the multi-beam echo sounder market into five major regions: North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America, along with their key countries. It provides detailed information on critical factors such as drivers, restraints, challenges, and opportunities influencing the market's growth. Additionally, a comprehensive analysis of leading industry players offers insights into their business profiles, solutions, and services. This analysis encompasses significant aspects like acquisitions, agreements, collaborations, expansions, partnerships, and product launches within the market.

Reasons to buy this report:

This report is a valuable resource for market leaders and newcomers in the multi-beam echo sounder market, providing data that closely estimates revenue figures for both the overall market and its subsegments. It gives stakeholders a thorough understanding of the competitive landscape, helping them make informed decisions to improve their market position and develop effective go-to-market strategies. The report offers key insights into market dynamics, including information on drivers, restraints, challenges, and opportunities, enabling stakeholders to gauge the market's pulse.

The report provides insights into the following pointers:

-□Analysis of key drivers, such as regulatory enforcement of environmental compliance in coastal and inland projects, increased

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investments in hydrographic surveys by government agencies, expansion of global maritime fleet, and rapid adoption in defense and maritime security

-□Market Penetration: Comprehensive information on multi-beam echo sounder solutions offered by the top market players

-□Product Development/Innovation: Detailed insights on upcoming technologies, R&D activities, and new product & service launches in the multi-beam echo sounder market

-□Market Development: Comprehensive information about lucrative markets - the report analyses the multi-beam echo sounder market across varied regions

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading market players

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