

Global SONAR System Market to Reach USD 7.16 Billion by 2032

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Abstracts

The Global SONAR System Market is valued at approximately USD 6.1 billion in 2023 and is projected to expand at a compound annual growth rate (CAGR) of 1.80% over the forecast period 2024-2032. The rising demand for advanced underwater surveillance and navigation systems has fueled the rapid evolution of SONAR (Sound Navigation and Ranging) technology across defense and commercial sectors. Governments and naval forces worldwide are heavily investing in SONAR technology to strengthen maritime security and defense capabilities. Additionally, the commercial shipping and offshore oil and gas industries are leveraging high-frequency SONAR solutions for underwater mapping, seabed exploration, and collision avoidance.

As maritime threats and geopolitical tensions escalate, countries are deploying SONAR-based systems to enhance anti-submarine warfare (ASW) operations and coastal surveillance. The integration of AI-driven signal processing and machine learning algorithms is revolutionizing SONAR capabilities, enabling enhanced target detection, classification, and real-time data analytics. Moreover, technological advancements in synthetic aperture SONAR (SAS) and multibeam echo sounders (MBES) are significantly improving resolution and coverage in deep-sea exploration and naval operations. However, challenges such as high system costs, operational complexity, and interference in shallow waters may hinder market expansion.

The global push for autonomous and unmanned underwater systems has also spurred the development of next-generation SONAR solutions designed for unmanned underwater vehicles (UUVs) and autonomous surface vessels (ASVs). The increasing adoption of underwater drones equipped with advanced SONAR payloads is enabling real-time oceanographic studies, underwater infrastructure inspection, and maritime border surveillance. Furthermore, the incorporation of lightweight and energy-efficient

SONAR systems is gaining traction among commercial and defense end users, further driving market growth.

Regionally, North America dominates the SONAR system market, led by the U.S., which invests heavily in naval modernization programs and defense R&D initiatives. The Asia-Pacific region is expected to witness the fastest growth due to rising maritime disputes, increasing naval budgets, and strategic collaborations among nations like China, India, and Japan. Europe is also a key player, with countries such as the UK, France, and Germany emphasizing enhanced underwater surveillance and anti-submarine capabilities. Meanwhile, Latin America and the Middle East & Africa are exploring SONAR-based solutions for offshore resource exploration and naval security modernization.

Major Market Players Included in This Report Are:

Lockheed Martin Corporation

Thales Group

L3Harris Technologies, Inc.

Raytheon Technologies Corporation

Northrop Grumman Corporation

Atlas Elektronik GmbH

Ultra Electronics Holdings plc

Teledyne Technologies Incorporated

Kongsberg Gruppen ASA

Saab AB

Furuno Electric Co., Ltd.

Navico Group

Japan Radio Co., Ltd. (JRC)

DSIT Solutions Ltd.

General Dynamics Corporation

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Application:

Defense & Security

Commercial Fishing

Scientific Research & Exploration

Oil & Gas Exploration

Others

By Platform:

Commercial Vessels

Defense Vessels

Unmanned Underwater Vehicles (UUVs)

Aircraft

Ports

By Type:

Active SONAR

Passive SONAR

Multi-Beam SONAR

Synthetic Aperture SONAR

Side Scan SONAR

By Material:

Piezoelectric Ceramics

Polymers

Composites

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years Considered for the Study:

Global SONAR System Market to Reach USD 7.16 Billion by 2032

Historical Year – 2022, 2023

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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