

## **Global Unmanned Sea System Market Report and Forecast 2024-2032**

Market Report | 2024-04-09 | 162 pages | EMR Inc.

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### **Report description:**

Global Unmanned Sea System Market Report and Forecast 2024-2032

#### Market Outlook

According to the report by Expert Market Research (EMR), the global unmanned sea system market size reached a value of USD 10.12 billion in 2023. Aided by the increasing demand for maritime security, environmental monitoring, and the exploration of untapped underwater resources, the market is projected to further grow at a CAGR of 6.10% between 2024 and 2032 to reach a value of USD 16.81 billion by 2032.

Unmanned sea systems, which include unmanned surface vehicles (USVs) and unmanned underwater vehicles (UUVs), play a crucial role in modern maritime operations. These systems are employed for a variety of tasks such as oceanographic data collection, seabed mapping, surveillance, anti-submarine warfare, and equipment inspection without requiring onboard human presence. The technological advancements in automation, robotics, and sensory technologies have significantly enhanced the capabilities and reliability of these systems.

The unmanned sea system market growth is primarily driven by the increasing need for maritime security amidst rising geopolitical tensions and piracy threats. Additionally, the exploration and exploitation of offshore oil, gas, and mineral resources necessitate extensive and prolonged maritime missions, which are cost-effectively accomplished using unmanned systems.

The market has seen substantial technological advancements and strategic expansions. As per the unmanned sea system market analysis, manufacturers are focusing on enhancing the endurance, autonomy, and data processing capabilities of these systems to meet the diverse demands of military, scientific, and commercial applications. Recent developments include the integration of artificial intelligence (AI) to improve navigation and operational capabilities, and the use of hybrid propulsion systems to extend the range and duration of missions.

Partnerships between defence contractors and technology companies are becoming more common as they seek to leverage each other's expertise in areas such as machine learning, encryption, and advanced materials. These collaborations aim to innovate and deliver more sophisticated and secure systems to the unmanned sea system market.

In addition, there is an increasing trend towards the modular design of unmanned sea systems, allowing for customisable configurations based on mission requirements. This flexibility has made unmanned sea systems more appealing across various industries.

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North America currently holds a substantial unmanned sea system market share due to its advanced technological base and substantial defense spending. However, the Asia-Pacific region is expected to experience significant growth, driven by increasing maritime security concerns and investments in maritime resources.

As unmanned sea systems become more connected and autonomous, cybersecurity becomes increasingly critical. The threat of cyber-attacks on these systems, which could potentially disrupt navigation or data integrity, is prompting manufacturers and operators to invest in robust cybersecurity measures to protect against such vulnerabilities.

As per the unmanned sea system market outlook, continued advancements in AI and machine learning are expected to increase the autonomy of unmanned sea systems, enabling more complex decision-making and operations without human intervention.

There is a growing emphasis on the use of renewable energy sources, such as solar and wind, to power unmanned sea systems, reducing the carbon footprint and operational costs.

The use of satellite communications for enhancing the command, control, communication, and information-sharing capabilities of unmanned sea systems is a growing trend boosting the unmanned sea system market share. This integration allows for extended-range operations and improved data collection capabilities, especially in remote or deep-water areas where traditional communication systems are less effective.

The development and integration of advanced sensors, including multispectral imaging, sonar systems, and chemical sensors, are enhancing the operational capabilities of unmanned sea systems. These technologies allow for better environmental monitoring, resource identification, and hazard detection, which are crucial for both commercial and defense-related missions.

#### Market Segmentation □

The market can be divided based on vehicle type, operation mode, application, and region.

##### Market Breakup by Vehicle Type

- Unmanned Underwater Vehicle (UUV)
- Unmanned Surface Vehicle (USV)

##### Market Breakup by Operation Mode

- Autonomous Vehicle
- Remotely Operated Vehicle

##### Market Breakup by Application

- Defence
- Research
- Commercial
- Others

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global unmanned sea system market. Some of the major players explored in the report by Expert Market Research are as follows:

- BAE Systems PLC
- General Dynamics Corporation
- Lockheed Martin Corporation
- The Boeing Company
- Saab AB
- L3Harris Technologies Inc.

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- Elbit Systems Ltd.
- Thyssenkrupp AG
- Teledyne Technologies Incorporated
- Maritime Robotics AS
- Exail SAS
- Others

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\*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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