

Unmanned Marine Vehicles Market Report by Type (Surface Vehicle, Underwater Vehicle), Control Type (Remotely Operated, Autonomous), Application (Defense, Research, Commercial, and Others), and Region 2024-2032

<https://marketpublishers.com/r/U47289EF95B1EN.html>

Date: August 2024

Pages: 149

Price: US\$ 3,509.00 (Single User License)

ID: U47289EF95B1EN

Abstracts

The global unmanned marine vehicles market size reached US\$ 4.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 10.2 Billion by 2032, exhibiting a growth rate (CAGR) of 9.6% during 2024-2032.

Unmanned marine vehicles (UMVs) refer to robotic vessel systems that can be operated above and below the water surface remotely or automatically without any human intervention. It includes unmanned surface craft, semi-submersibles, and remotely operated and autonomous underwater vehicles as some standard vessel types. These military systems can range from small vessels to mid-sized ships, and they are equipped with several sensors that help acquire and record environment-related data of nearby areas and assess vehicle response or course. UMVs assist in improving marine animal monitoring, performing risky military-related tasks automatically, offering safety, and reducing survey duration at minimal operational costs. Apart from this, UMVs are stable and maneuverable; therefore, they are used in oceanographic or hydrographic data collection, deep-sea mining, and anti-submarine warfare (ASW) applications.

Unmanned Marine Vehicles Market Trends:

The rapid expansion in the navy and defense department of the military sector and the increasing need for autonomous underwater and remotely operated vehicles (AUVs/ROVs) for intelligence, surveillance, and reconnaissance (ISR) operations are

primarily driving the market growth. Additionally, extensive investments by governments in defense forces to deal with maritime-security threats, such as torpedo dangers, underwater mines, diesel-electric submarine attacks, and short-range anti-ship missiles, are acting as another growth-inducing factor. In line with this, the widespread uptake of autonomous marine vehicles in hydrographic surveys to produce navigational charts for safer transit of vessels and understand the freshwater environment for port and harbor development is supporting the market growth. Moreover, the large-scale integration of UMVs with underwater navigation systems, stabilized weapon solutions, and electro-optical tracking devices to monitor the aquatic environment using infrared vision is propelling the market growth. Apart from this, the development of robotic platforms by key players to neutralize potential underwater threats are positively augmenting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global unmanned marine vehicles market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, control type and application.

Breakup by Type:

Surface Vehicle

Underwater Vehicle

Breakup by Control Type:

Remotely Operated

Autonomous

Breakup by Application:

Defense

Research

Commercial

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Atlas Elektronik GmbH (ThyssenKrupp AG), Fugro, General Dynamics Mission Systems Inc. (General Dynamics Corporation), Kongsberg Gruppen, L3harris Technologies Inc., Lockheed Martin Corporation, QinetiQ, Rafael Advanced Defense Systems Ltd., Saab AB, Teledyne Technologies Inc., Textron Inc. and The Boeing Company.

Key Questions Answered in This Report:

How has the global unmanned marine vehicles market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global unmanned marine vehicles market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the control type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global unmanned marine vehicles market and who are the key players?

What is the degree of competition in the industry?

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