

Global Water Surface Cleaning Unmanned Vessel Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Water Surface Cleaning Unmanned Vessel competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Water surface cleaning unmanned vessel is an intelligent cleaning product for water surfaces, designed as an autonomous vessel for environmental maintenance and cleaning tasks. These ships are equipped with advanced sensors, navigation systems, and cleaning mechanisms, and can operate autonomously without human intervention. With the development of unmanned driving technology, replacing manual operations with unmanned ships has become a trend in the field of water surface cleaning in China. Compared with manual operations, unmanned ships can significantly improve operational efficiency, reduce maintenance costs, and eliminate potential safety hazards to personnel. Unmanned boat for cleaning water surface is an intelligent water equipment with integrated autonomous navigation, environmental perception, garbage identification and collection functions.

Analysis of market drivers

- Policy support and environmental protection needs**
Promotion of "River Chief System": China has fully implemented the river and lake chief system, requiring that the proportion of black and odorous water bodies in cities at prefecture level and above be eliminated by 90% by 2025, which will drive the demand for unmanned boat procurement.
Environmental protection regulations: The EU Water Framework Directive (WFD) requires member states to improve water quality and promote the popularization of unmanned boats in the European market.
Financial subsidies: Local environmental protection special funds support the purchase of unmanned boats (such as Suzhou's 10 million yuan subsidy for Yunzhou Intelligent Project).
- Urbanization and water resource pressure**
Intensified water pollution: The proportion of sections with good surface water quality in China is only 84.9%, and the eutrophication problem of urban rivers and lakes

is prominent. Rising labor costs: Traditional salvage boats require 3-5 people to operate, while unmanned boats can reduce labor costs by 70% and annual operating costs by 50%. Scenic spot demand: Hangzhou West Lake, Nanjing Xuanwu Lake and other scenic spots have introduced unmanned boats to improve water quality while reducing interference with tourists.

3. Technological progress and cost optimization

AI empowerment: The accuracy of garbage recognition exceeds 95%, reducing invalid salvage and improving operation efficiency by 30%. Modular design: The same hull can switch between cleaning, monitoring, and emergency modules to reduce user procurement costs. Domestic substitution: The core components such as laser radar and chips are domestically produced, and the cost of unmanned boats is 40% lower than that of imported products.

4. Industrial chain collaboration and ecological construction

Upstream integration: Yunzhou Intelligent binds laser radar suppliers (such as RoboSense) and battery companies (CATL) to ensure the stability of the supply chain. System integration: Oka Zhibo provides an "unmanned boat + smart terminal + cloud platform" solution to achieve fully automatic operation and data analysis. Data service: China Aerospace Science and Industry Corporation has developed a water big data platform to optimize water conservancy scheduling through unmanned boat data.

IV. Future trends and challenges

Trends: Intelligent upgrade: 5G+AIoT technology enables multi-ship collaborative operations and improves the efficiency of large-scale water management. Energy innovation: Hydrogen fuel cells and solar hybrid power extend the endurance to more than 24 hours. Application expansion: Extending from cleaning to monitoring, emergency rescue, underwater archaeology and other fields.

Challenges: Technical bottleneck: Autonomous obstacle avoidance in complex water flow environments still needs to be optimized, and operations in rainstorms and foggy weather are limited. Lack of standards: Unmanned ship performance testing and safety certification standards are not yet perfect, which restricts the industrialization process. International competition: Norwegian Kongsberg, French ECA Group and other companies are accelerating the layout of the high-end market, and Chinese companies still need to make breakthroughs in brands and patents.

The market for surface cleaning unmanned ships is experiencing explosive growth driven by policies, technological breakthroughs and cost optimization. International giants occupy the high-end market with their technological accumulation and brand advantages, domestic companies seize market share through domestic substitution and scene innovation, and scientific research institutions promote industrial upgrading through technology transformation. In the future, with the acceleration of urbanization and the improvement of awareness of water resource protection, the market demand for unmanned boats will continue to expand, and technological iteration and industrial chain coordination will become the key to competition.

The global Water Surface Cleaning Unmanned Vessel market size was estimated at USD 321.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Water Surface Cleaning Unmanned Vessel market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Water Surface Cleaning Unmanned Vessel market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Water Surface Cleaning Unmanned Vessel market.

Global Water Surface Cleaning Unmanned Vessel Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse

customer groups.

Key Company

OceanAlpha
RanMarine
Clearbot
Relong Technology
Orcaubot
Yunzhou Intelligence Technology
Xuedou Intelligent Manufacturing
Feichi Environmental Protection
ECA Group
Kongsberg

Market Segmentation (by Type)

Maximum Garbage Loading Capacity:

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