

# **Smart Cleaning and Hygiene Market Report by Product (Robotic Vacuum Cleaner, Pool Cleaning Robot, Window Cleaning Robot, and Others), Application (Commercial, Industrial, Residential, Healthcare), and Region 2024-2032**

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## **Abstracts**

The global smart cleaning and hygiene market size reached US\$ 4.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 14.4 Billion by 2032, exhibiting a growth rate (CAGR) of 13.7% during 2024-2032. The increasing emphasis on health and safety standards, the growing investments by businesses and organizations of all scale in advanced technologies to reduce the risk of infections, and numerous product innovations, such as efficient scheduling, route optimization, and smart dispensing systems represent some of the key factors driving the market.

Smart cleaning and hygiene refer to the integration of advanced technologies and intelligent solutions into cleaning and hygiene practices to optimize efficiency, effectiveness, and sustainability. It involves the use of connected devices, sensors, data analytics, and automation to enhance cleaning processes, monitor hygiene levels, and improve overall cleanliness in various environments. Some of the most common devices include robotic cleaners, sensor-based monitoring systems, connected cleaning equipment, and data-driven cleaning management platforms. By leveraging cutting-edge technologies, smart cleaning and hygiene aims to replace traditional cleaning methods to reduce manual labor and ensure optimal cleanliness according to hygiene standards. Facility managers can access real-time data, track cleaning performance, and receive alerts or notifications for timely intervention. This centralized approach streamlines workflow, enhances communication, and facilitates proactive decision-making. As a result, it is extensively utilized in numerous applications, including commercial buildings, healthcare facilities, hospitality venues, educational institutions,

and manufacturing plants.

#### Smart Cleaning and Hygiene Market Trends:

The global market is primarily driven by the heightened emphasis on health and safety standards across the globe. This can be attributed to the breakout of COVID-19 pandemic as well as numerous viral diseases. In line with this, the growing investments by businesses and organizations of all scales in advanced cleaning solutions to reduce the risk of contamination and infections among employees is fueling the market.

Moreover, numerous product innovations, such as efficient scheduling, route optimization, and smart dispensing systems to help reduce water and chemical consumption are providing an impetus to the market. Additionally, the augmenting demand sectors such as hospitality and retail to uphold consistent cleanliness standards and minimize disruptions during business hours is resulting in a higher product uptake. The growing preference for touchless technologies, driven by hygiene concerns and the need to minimize the spread of germs and pathogens, is also fueling widespread product adoption. The market is further driven by the growing integration of smart cleaning and hygiene solutions with building management systems (BMS) for synchronized scheduling and centralized control. Furthermore, the increasing importance of indoor air quality (IAQ) on health and productivity among the masses is creating a positive market outlook. Some of the other factors contributing to the market include increasing awareness of the impact of IAQ on health and productivity, rapid urbanization, an enhanced focus on sustainable development, and inflating disposable income levels.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global smart cleaning and hygiene market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on product and application.

#### Product Insights:

- Robotic Vacuum Cleaner
- Pool Cleaning Robot
- Window Cleaning Robot
- Others

The report has provided a detailed breakup and analysis of the smart cleaning and hygiene market based on the product. This includes robotic vacuum cleaner, pool cleaning robot, window cleaning robot, and others. According to the report, robotic

vacuum cleaner represented the largest segment.

#### Application Insights:

Commercial  
Industrial  
Residential  
Healthcare

A detailed breakup and analysis of the smart cleaning and hygiene market based on the application has also been provided in the report. This includes commercial, industrial, residential and healthcare. According to the report, healthcare accounted for the largest market share.

#### Regional Insights:

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

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for smart cleaning and hygiene. Some of the factors driving the North America smart cleaning and hygiene market included increasing awareness of the impact of IAQ on health and productivity, growing investments by businesses and organizations of all scale in advanced cleaning solutions to reduce the risk of contamination, an enhanced focus on sustainable development, etc.

### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global smart cleaning and hygiene market. The detailed profiles of all major companies have been provided. Some of the companies covered include Cecotec Innovaciones SL, Ecovacs Robotics Co. Ltd., Haier Group Corporation, iRobot Corporation, Hitachi Ltd., LG Electronics Inc., Maytronics Ltd., Panasonic Holdings Corporation, Roborock Technology Co., Samsung Electronics Co. Ltd., SharkNinja Operating LLC, Vorwerk SE & Co. KG, Xiaomi Corporation, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

### Key Questions Answered in This Report:

How has the global smart cleaning and hygiene market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global smart cleaning and hygiene market?

What is the impact of each driver, restraint, and opportunity on the global smart cleaning and hygiene market?

What are the key regional markets?

Which countries represent the most attractive smart cleaning and hygiene market?

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

Which is the most attractive product in the smart cleaning and hygiene market?

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

Which is the most attractive application in the smart cleaning and hygiene market?

What is the competitive structure of the global smart cleaning and hygiene market?

Who are the key players/companies in the global smart cleaning and hygiene market?

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