

# **Disinfectant Robot Market Report by Type (Ultraviolet Light Disinfectant Robots, Disinfectant Spraying Robots, Combined System Disinfection Robots), Technology (Fully Autonomous Disinfection Robots, Semi-autonomous Disinfection Robots), End User (Hospitals, Transportation, Industries, Hospitality, and Others), and Region 2023-2028**

<https://marketpublishers.com/r/D4DF14A0338AEN.html>

Date: September 2023

Pages: 147

Price: US\$ 2,499.00 (Single User License)

ID: D4DF14A0338AEN

## **Abstracts**

### Market Overview:

The global disinfectant market size reached US\$ 707.5 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3,752.40 Million by 2028, exhibiting a growth rate (CAGR) of 32.16% during 2023-2028. The global increase in the frequency and severity of infectious diseases, growing emphasis on public health and hygiene, advancement in technology and robotics, and rising emphasis on the importance of robust cleaning and disinfection protocols represent some of the key factors driving the market.

A disinfectant robot is an automated device designed to sanitize and disinfect various environments, such as hospitals, offices, public spaces, and vehicles. It utilizes advanced technologies and mechanisms to efficiently and effectively eliminate harmful pathogens, bacteria, and viruses from surfaces. Disinfectant robots often incorporate features such as ultraviolet (UV) light, aerosol-based disinfection, or electrostatic spraying systems. UV light disinfection robots emit high-intensity ultraviolet light to target and destroy microorganisms on surfaces. These robots move autonomously and use sensors to navigate the area, ensuring thorough coverage and precise disinfection. Aerosol-based or electrostatic spraying robots employ a liquid disinfectant solution that

is sprayed onto surfaces. The solution is dispersed in fine droplets, allowing it to effectively reach and coat all exposed areas. Some disinfectant robots also use advanced algorithms and artificial intelligence to map the environment, identify high-risk areas, and optimize the disinfection process. Disinfectant robots offer several advantages over manual disinfection methods. They minimize human exposure to potentially hazardous chemicals, reduce labor costs, and ensure consistent and thorough disinfection coverage. By automating the disinfection process, these robots can save time, enhance efficiency, and provide a higher level of sanitization.

#### Disinfectant Robot Market Trends:

One of the primary factors driving the market is the global increase in the frequency and severity of infectious disease outbreaks, such as the coronavirus disease (COVID-19) pandemic. Disinfectant robots offer a reliable and automated approach to sanitize and disinfect various environments, addressing the need for comprehensive and regular cleaning protocols. Additionally, the growing emphasis on public health and hygiene standards across different sectors, including healthcare, hospitality, transportation, and commercial spaces, has driven the adoption of disinfectant robots. These robots provide an additional layer of protection and peace of mind by ensuring thorough disinfection, reducing the risk of surface transmission, and creating safer environments for employees, customers, and the public. Other than this, disinfectant robots leverage innovative technologies such as ultraviolet (UV) light, aerosol-based disinfection, or electrostatic spraying systems. These technologies enhance the efficiency and effectiveness of the disinfection process, allowing for precise targeting and coverage of surfaces. The integration of artificial intelligence and advanced algorithms enables robots to autonomously navigate environments, optimize cleaning routes, and adapt to different spaces. Besides this, regulatory bodies and health organizations emphasize the importance of robust cleaning and disinfection protocols, creating a favorable environment for the adoption of disinfectant robots. Compliance with these regulations motivates businesses and institutions to invest in advanced disinfection technologies to meet the required standards. In line with this, the cost-effectiveness and long-term savings associated with disinfectant robots contribute to market growth. While the initial investment may be higher, the use of robots reduces the need for manual labor and minimizes the potential for human error. This translates into cost savings over time, making disinfectant robots an attractive solution for businesses and organizations seeking efficient and reliable disinfection methods.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global disinfectant robot market, along with forecasts at the global, regional, and country levels

from 2023-2028. Our report has categorized the market based on type, technology, and end user.

#### Type Insights:

- Ultraviolet Light Disinfectant Robots
- Disinfectant Spraying Robots
- Combined System Disinfection Robots

The report has provided a detailed breakup and analysis of the disinfectant robot market based on the type. This includes ultraviolet light disinfectant robots, disinfectant spraying robots, and combined system disinfection robots. According to the report, ultraviolet light disinfection robots represented the largest segment.

#### Technology Insights:

- Fully Autonomous Disinfection Robots
- Semi-autonomous Disinfection Robots

A detailed breakup and analysis of the disinfectant robot market based on technology has also been provided in the report. This includes fully autonomous disinfection robots and semi-autonomous disinfection robots. According to the report, fully autonomous disinfection robots accounted for the largest market share.

#### End User Insights:

- Hospitals
- Transportation
- Industries
- Hospitality
- Others

A detailed breakup and analysis of the disinfectant robot market based on end user has also been provided in the report. This includes hospitals, transportation, industries, hospitality, and others. According to the report, hospitals accounted for the largest market share.

#### Regional Insights:

North America  
United States  
Canada  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
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); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, 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 disinfectant robot. Some of the factors driving the North America disinfectant robot market included increased emphasis on hygiene and cleanliness, advancements in robotics and automation, and scalability and cost-efficiency.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global disinfectant robot market. Detailed profiles of all major companies have been provided. Some of the companies covered include Akara Robotics Ltd., Badger

Technologies LLC (Jabil Inc.), Blue Ocean Robotics, Fetch Robotics Inc. (Zebra Technologies Corporation), Finsen Technologies Ltd., Mediland Enterprise Corporation, Nevoa Inc., Omron Corporation, SESTO Robotics Pte. Ltd., Skytron LLC (Kawasaki Midwest Motorcycles Inc.), TMI Robotics Technology Co.Ltd., Tru-d Smartuvc, Xenex Disinfection Services Inc, 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 disinfectant robot market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global disinfectant robot market?

What is the impact of each driver, restraint, and opportunity on the global disinfectant robot market?

What are the key regional markets?

Which countries represent the most attractive disinfectant robot market?

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

Which is the most attractive type in the disinfectant robot market?

What is the breakup of the market based on technology?

Which is the most attractive technology in the disinfectant robot market?

What is the breakup of the market based on the end user?

Which is the most attractive end user in the market?

What is the competitive structure of the global disinfectant robot market?

Who are the key players/companies in the global disinfectant robot market?

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