

Global Infrared Sensor for Sweeping Robot Market Growth 2025-2031

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Abstracts

The global Infrared Sensor for Sweeping Robot market size is predicted to grow from US\$ 202 million in 2025 to US\$ 301 million in 2031; it is expected to grow at a CAGR of 6.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The Infrared Sensor for Sweeping Robot converts infrared radiation (0.75–1000 ?m) into electrical signals for non-contact distance or object recognition. By analyzing reflected infrared intensity or active signal emission/reception, it enables collision avoidance, wall-following, or cleaning boundary identification with fast response and low power consumption, maintaining stability in low-light conditions through frequency-modulated signals to mitigate ambient light interference.

United States market for Infrared Sensor for Sweeping Robot is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Infrared Sensor for Sweeping Robot is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Infrared Sensor for Sweeping Robot is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Infrared Sensor for Sweeping Robot players cover Hamamatsu Photonics

K.K., Excelitas Technologies Corp., Texas Instruments, Analog Devices, Inc, SICK AG, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Infrared Sensor for Sweeping Robot Industry Forecast” looks at past sales and reviews total world Infrared Sensor for Sweeping Robot sales in 2024, providing a comprehensive analysis by region and market sector of projected Infrared Sensor for Sweeping Robot sales for 2025 through 2031. With Infrared Sensor for Sweeping Robot sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Infrared Sensor for Sweeping Robot industry.

This Insight Report provides a comprehensive analysis of the global Infrared Sensor for Sweeping Robot landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Infrared Sensor for Sweeping Robot portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Infrared Sensor for Sweeping Robot market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Sensor for Sweeping Robot and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Infrared Sensor for Sweeping Robot.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Sensor for Sweeping Robot market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Photon Detection

Thermal Detection

Segmentation by Application:

Home Sweeping Robot

Commercial Sweeping Robot

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hamamatsu Photonics K.K.

Excelitas Technologies Corp.

Texas Instruments

Analog Devices, Inc

SICK AG

ams-OSRAM AG

Murata Manufacturing Co., Ltd.

STMicroelectronics

Vishay Intertechnology, Inc.

Sharp

Pepperl+Fuchs

Shenzhen Highlight Optics Co., Ltd.

EVERLIGHT ELECTRONICS CO., LTD.

Guangzhou Boyue Electronic Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Sensor for Sweeping Robot market?

What factors are driving Infrared Sensor for Sweeping Robot market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Infrared Sensor for Sweeping Robot market opportunities vary by end market size?

How does Infrared Sensor for Sweeping Robot break out by Type, by Application?

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