

# Global Sweeping Robot Avoidance Sensor Market Growth 2025-2031

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## Abstracts

The global Sweeping Robot Avoidance Sensor market size is predicted to grow from US\$ 420 million in 2025 to US\$ 603 million in 2031; it is expected to grow at a CAGR of 6.2% 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 sweeping robot avoidance sensor is a critical component installed on a sweeping robot, designed to perceive information about obstacles in the surrounding environment. Based on various physical principles such as optics, acoustics, and electromagnetics, this sensor emits specific signals (such as infrared rays, ultrasonic waves, lasers, etc.) and receives their reflected signals to detect the presence of obstacles on the robot's travel path, as well as to determine parameters such as the distance, direction, and approximate shape of the obstacles. Its core function is to provide real-time and accurate obstacle information to the navigation system of the sweeping robot, enabling the robot to adjust its travel route in a timely manner and avoid collisions with obstacles, thereby achieving efficient and safe cleaning operations.

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

Global key Sweeping Robot Avoidance Sensor players cover Velodyne, Pepperl+Fuchs, Hokuyo, Newsight, GZ Cyndar, 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 "Sweeping Robot Avoidance Sensor Industry Forecast" looks at past sales and reviews total world Sweeping Robot Avoidance Sensor sales in 2024, providing a comprehensive analysis by region and market sector of projected Sweeping Robot Avoidance Sensor sales for 2025 through 2031. With Sweeping Robot Avoidance Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Sweeping Robot Avoidance Sensor industry.

This Insight Report provides a comprehensive analysis of the global Sweeping Robot Avoidance Sensor 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 Sweeping Robot Avoidance Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Sweeping Robot Avoidance Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sweeping Robot Avoidance Sensor 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 Sweeping Robot Avoidance Sensor.

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

Segmentation by Type:

3D TOF

Visual Obstacle Avoidance

LiDAR

Others

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.

Velodyne

Pepperl+Fuchs

Hokuyo

Newsight

GZ Cyndar

YUJIN ROBOT

SICK AG

OMRON

LG Innotek

Toppan

DOMI Sensor

Vsemi

Leopard

Shanghai Slamtec Co., Ltd.

Richbeam (Beijing) Technology Co., Ltd.

Shenzhen Suteng Innovation Technology Co., Ltd.

Ningbo Osight Photoelectric Technology Co., Ltd.

Shenzhen Litra Technology Co., Ltd.

Beijing VanJee Technology Co., Ltd.

Shenzhen FaseLase Co., Ltd.

Hangzhou OLE-SYSTEMS Co., Ltd.

Huawei TECHNOLOGIES Co., Ltd.

Benewake (Beijing) Co., Ltd.

Shanghai Siminics Optoelectronics Technology Co., Ltd.

Shenzhen EAI Technology. Co., Ltd.

Orbbec Inc.

Shenzhen Angstrong Technology Co., Ltd.

Shanghai Hesai Technology Co., Ltd.

Wuhan Lingtu Sensing Technology Co., Ltd.

Q Technology (Group) Company Limited

Luxvisions Innovation Limited

Optical Micro Information Technology (Hefei) Co., Ltd.

Ofilm Group

Zhejiang Sunny Optical Intelligent Technology Co., Ltd.

Nanjing VisionICs Microelectronics Technology Co., Ltd.

ShenZhen Xisu Technology Co., Ltd.

GoerMicroelectronics Co., Ltd.

#### Key Questions Addressed in this Report

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

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

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

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

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

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Sweeping Robot Avoidance Sensor Annual Sales 2020-2031
  - 2.1.2 World Current & Future Analysis for Sweeping Robot Avoidance Sensor by Geographic Region, 2020, 2024 & 2031
  - 2.1.3 World Current & Future Analysis for Sweeping Robot Avoidance Sensor by Country/Region, 2020, 2024 & 2031
- 2.2 Sweeping Robot Avoidance Sensor Segment by Type
  - 2.2.1 3D TOF
  - 2.2.2 Visual Obstacle Avoidance
  - 2.2.3 LiDAR
  - 2.2.4 Others
- 2.3 Sweeping Robot Avoidance Sensor Sales by Type
  - 2.3.1 Global Sweeping Robot Avoidance Sensor Sales Market Share by Type (2020-2025)
  - 2.3.2 Global Sweeping Robot Avoidance Sensor Revenue and Market Share by Type (2020-2025)
  - 2.3.3 Global Sweeping Robot Avoidance Sensor Sale Price by Type (2020-2025)
- 2.4 Sweeping Robot Avoidance Sensor Segment by Application
  - 2.4.1 Home Sweeping Robot
  - 2.4.2 Commercial Sweeping Robot
  - 2.4.3 Others
- 2.5 Sweeping Robot Avoidance Sensor Sales by Application
  - 2.5.1 Global Sweeping Robot Avoidance Sensor Sale Market Share by Application (2020-2025)

2.5.2 Global Sweeping Robot Avoidance Sensor Revenue and Market Share by Application (2020-2025)

2.5.3 Global Sweeping Robot Avoidance Sensor Sale Price by Application (2020-2025)

### **3 GLOBAL BY COMPANY**

3.1 Global Sweeping Robot Avoidance Sensor Breakdown Data by Company

3.1.1 Global Sweeping Robot Avoidance Sensor Annual Sales by Company (2020-2025)

3.1.2 Global Sweeping Robot Avoidance Sensor Sales Market Share by Company (2020-2025)

3.2 Global Sweeping Robot Avoidance Sensor Annual Revenue by Company (2020-2025)

3.2.1 Global Sweeping Robot Avoidance Sensor Revenue by Company (2020-2025)

3.2.2 Global Sweeping Robot Avoidance Sensor Revenue Market Share by Company (2020-2025)

3.3 Global Sweeping Robot Avoidance Sensor Sale Price by Company

3.4 Key Manufacturers Sweeping Robot Avoidance Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Sweeping Robot Avoidance Sensor Product Location Distribution

3.4.2 Players Sweeping Robot Avoidance Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR SWEEPING ROBOT AVOIDANCE SENSOR BY GEOGRAPHIC REGION**

4.1 World Historic Sweeping Robot Avoidance Sensor Market Size by Geographic Region (2020-2025)

4.1.1 Global Sweeping Robot Avoidance Sensor Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Sweeping Robot Avoidance Sensor Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Sweeping Robot Avoidance Sensor Market Size by Country/Region

(2020-2025)

4.2.1 Global Sweeping Robot Avoidance Sensor Annual Sales by Country/Region

(2020-2025)

4.2.2 Global Sweeping Robot Avoidance Sensor Annual Revenue by Country/Region

(2020-2025)

4.3 Americas Sweeping Robot Avoidance Sensor Sales Growth

4.4 APAC Sweeping Robot Avoidance Sensor Sales Growth

4.5 Europe Sweeping Robot Avoidance Sensor Sales Growth

4.6 Middle East & Africa Sweeping Robot Avoidance Sensor Sales Growth

## **5 AMERICAS**

5.1 Americas Sweeping Robot Avoidance Sensor Sales by Country

5.1.1 Americas Sweeping Robot Avoidance Sensor Sales by Country (2020-2025)

5.1.2 Americas Sweeping Robot Avoidance Sensor Revenue by Country (2020-2025)

5.2 Americas Sweeping Robot Avoidance Sensor Sales by Type (2020-2025)

5.3 Americas Sweeping Robot Avoidance Sensor Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Sweeping Robot Avoidance Sensor Sales by Region

6.1.1 APAC Sweeping Robot Avoidance Sensor Sales by Region (2020-2025)

6.1.2 APAC Sweeping Robot Avoidance Sensor Revenue by Region (2020-2025)

6.2 APAC Sweeping Robot Avoidance Sensor Sales by Type (2020-2025)

6.3 APAC Sweeping Robot Avoidance Sensor Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

## 7.1 Europe Sweeping Robot Avoidance Sensor by Country

7.1.1 Europe Sweeping Robot Avoidance Sensor Sales by Country (2020-2025)

7.1.2 Europe Sweeping Robot Avoidance Sensor Revenue by Country (2020-2025)

## 7.2 Europe Sweeping Robot Avoidance Sensor Sales by Type (2020-2025)

## 7.3 Europe Sweeping Robot Avoidance Sensor Sales by Application (2020-2025)

### 7.4 Germany

### 7.5 France

### 7.6 UK

### 7.7 Italy

### 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa Sweeping Robot Avoidance Sensor by Country

8.1.1 Middle East & Africa Sweeping Robot Avoidance Sensor Sales by Country (2020-2025)

8.1.2 Middle East & Africa Sweeping Robot Avoidance Sensor Revenue by Country (2020-2025)

### 8.2 Middle East & Africa Sweeping Robot Avoidance Sensor Sales by Type (2020-2025)

### 8.3 Middle East & Africa Sweeping Robot Avoidance Sensor Sales by Application (2020-2025)

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

### 10.1 Raw Material and Suppliers

### 10.2 Manufacturing Cost Structure Analysis of Sweeping Robot Avoidance Sensor

### 10.3 Manufacturing Process Analysis of Sweeping Robot Avoidance Sensor

## 10.4 Industry Chain Structure of Sweeping Robot Avoidance Sensor

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 Sweeping Robot Avoidance Sensor Distributors

### 11.3 Sweeping Robot Avoidance Sensor Customer

## **12 WORLD FORECAST REVIEW FOR SWEEPING ROBOT AVOIDANCE SENSOR BY GEOGRAPHIC REGION**

### 12.1 Global Sweeping Robot Avoidance Sensor Market Size Forecast by Region

#### 12.1.1 Global Sweeping Robot Avoidance Sensor Forecast by Region (2026-2031)

#### 12.1.2 Global Sweeping Robot Avoidance Sensor Annual Revenue Forecast by Region (2026-2031)

### 12.2 Americas Forecast by Country (2026-2031)

### 12.3 APAC Forecast by Region (2026-2031)

### 12.4 Europe Forecast by Country (2026-2031)

### 12.5 Middle East & Africa Forecast by Country (2026-2031)

### 12.6 Global Sweeping Robot Avoidance Sensor Forecast by Type (2026-2031)

### 12.7 Global Sweeping Robot Avoidance Sensor Forecast by Application (2026-2031)

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Velodyne

#### 13.1.1 Velodyne Company Information

#### 13.1.2 Velodyne Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

#### 13.1.3 Velodyne Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

#### 13.1.4 Velodyne Main Business Overview

#### 13.1.5 Velodyne Latest Developments

### 13.2 Pepperl+Fuchs

#### 13.2.1 Pepperl+Fuchs Company Information

#### 13.2.2 Pepperl+Fuchs Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

#### 13.2.3 Pepperl+Fuchs Sweeping Robot Avoidance Sensor Sales, Revenue, Price and

## Gross Margin (2020-2025)

### 13.2.4 Pepperl+Fuchs Main Business Overview

### 13.2.5 Pepperl+Fuchs Latest Developments

## 13.3 Hokuyo

### 13.3.1 Hokuyo Company Information

### 13.3.2 Hokuyo Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

### 13.3.3 Hokuyo Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

### 13.3.4 Hokuyo Main Business Overview

### 13.3.5 Hokuyo Latest Developments

## 13.4 Newsight

### 13.4.1 Newsight Company Information

### 13.4.2 Newsight Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

### 13.4.3 Newsight Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

### 13.4.4 Newsight Main Business Overview

### 13.4.5 Newsight Latest Developments

## 13.5 GZ Cyndar

### 13.5.1 GZ Cyndar Company Information

### 13.5.2 GZ Cyndar Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

### 13.5.3 GZ Cyndar Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

### 13.5.4 GZ Cyndar Main Business Overview

### 13.5.5 GZ Cyndar Latest Developments

## 13.6 YUJIN ROBOT

### 13.6.1 YUJIN ROBOT Company Information

### 13.6.2 YUJIN ROBOT Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

### 13.6.3 YUJIN ROBOT Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

### 13.6.4 YUJIN ROBOT Main Business Overview

### 13.6.5 YUJIN ROBOT Latest Developments

## 13.7 SICK AG

### 13.7.1 SICK AG Company Information

### 13.7.2 SICK AG Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.7.3 SICK AG Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 SICK AG Main Business Overview

13.7.5 SICK AG Latest Developments

13.8 OMRON

13.8.1 OMRON Company Information

13.8.2 OMRON Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.8.3 OMRON Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 OMRON Main Business Overview

13.8.5 OMRON Latest Developments

13.9 LG Innotek

13.9.1 LG Innotek Company Information

13.9.2 LG Innotek Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.9.3 LG Innotek Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 LG Innotek Main Business Overview

13.9.5 LG Innotek Latest Developments

13.10 Toppan

13.10.1 Toppan Company Information

13.10.2 Toppan Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.10.3 Toppan Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Toppan Main Business Overview

13.10.5 Toppan Latest Developments

13.11 DOMI Sensor

13.11.1 DOMI Sensor Company Information

13.11.2 DOMI Sensor Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.11.3 DOMI Sensor Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 DOMI Sensor Main Business Overview

13.11.5 DOMI Sensor Latest Developments

13.12 Vsemi

13.12.1 Vsemi Company Information

13.12.2 Vsemi Sweeping Robot Avoidance Sensor Product Portfolios and

## Specifications

13.12.3 Vsemi Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Vsemi Main Business Overview

13.12.5 Vsemi Latest Developments

## 13.13 Leopard

13.13.1 Leopard Company Information

13.13.2 Leopard Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.13.3 Leopard Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Leopard Main Business Overview

13.13.5 Leopard Latest Developments

## 13.14 Shanghai Slamtec Co., Ltd.

13.14.1 Shanghai Slamtec Co., Ltd. Company Information

13.14.2 Shanghai Slamtec Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.14.3 Shanghai Slamtec Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 Shanghai Slamtec Co., Ltd. Main Business Overview

13.14.5 Shanghai Slamtec Co., Ltd. Latest Developments

## 13.15 Richbeam (Beijing) Technology Co., Ltd.

13.15.1 Richbeam (Beijing) Technology Co., Ltd. Company Information

13.15.2 Richbeam (Beijing) Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.15.3 Richbeam (Beijing) Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.15.4 Richbeam (Beijing) Technology Co., Ltd. Main Business Overview

13.15.5 Richbeam (Beijing) Technology Co., Ltd. Latest Developments

## 13.16 Shenzhen Suteng Innovation Technology Co., Ltd.

13.16.1 Shenzhen Suteng Innovation Technology Co., Ltd. Company Information

13.16.2 Shenzhen Suteng Innovation Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.16.3 Shenzhen Suteng Innovation Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.16.4 Shenzhen Suteng Innovation Technology Co., Ltd. Main Business Overview

13.16.5 Shenzhen Suteng Innovation Technology Co., Ltd. Latest Developments

## 13.17 Ningbo Osight Photoelectric Technology Co., Ltd.

13.17.1 Ningbo Osight Photoelectric Technology Co., Ltd. Company Information

13.17.2 Ningbo Osight Photoelectric Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.17.3 Ningbo Osight Photoelectric Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.17.4 Ningbo Osight Photoelectric Technology Co., Ltd. Main Business Overview

13.17.5 Ningbo Osight Photoelectric Technology Co., Ltd. Latest Developments

13.18 Shenzhen Litra Technology Co., Ltd.

13.18.1 Shenzhen Litra Technology Co., Ltd. Company Information

13.18.2 Shenzhen Litra Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.18.3 Shenzhen Litra Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.18.4 Shenzhen Litra Technology Co., Ltd. Main Business Overview

13.18.5 Shenzhen Litra Technology Co., Ltd. Latest Developments

13.19 Beijing VanJee Technology Co., Ltd.

13.19.1 Beijing VanJee Technology Co., Ltd. Company Information

13.19.2 Beijing VanJee Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.19.3 Beijing VanJee Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.19.4 Beijing VanJee Technology Co., Ltd. Main Business Overview

13.19.5 Beijing VanJee Technology Co., Ltd. Latest Developments

13.20 Shenzhen FaseLase Co., Ltd.

13.20.1 Shenzhen FaseLase Co., Ltd. Company Information

13.20.2 Shenzhen FaseLase Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.20.3 Shenzhen FaseLase Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.20.4 Shenzhen FaseLase Co., Ltd. Main Business Overview

13.20.5 Shenzhen FaseLase Co., Ltd. Latest Developments

13.21 Hangzhou OLE-SYSTEMS Co., Ltd.

13.21.1 Hangzhou OLE-SYSTEMS Co., Ltd. Company Information

13.21.2 Hangzhou OLE-SYSTEMS Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.21.3 Hangzhou OLE-SYSTEMS Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.21.4 Hangzhou OLE-SYSTEMS Co., Ltd. Main Business Overview

13.21.5 Hangzhou OLE-SYSTEMS Co., Ltd. Latest Developments

13.22 Huawei TECHNOLOGIES Co., Ltd.

- 13.22.1 Huawei TECHNOLOGIES Co., Ltd. Company Information
- 13.22.2 Huawei TECHNOLOGIES Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
- 13.22.3 Huawei TECHNOLOGIES Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.22.4 Huawei TECHNOLOGIES Co., Ltd. Main Business Overview
- 13.22.5 Huawei TECHNOLOGIES Co., Ltd. Latest Developments
- 13.23 Benewake (Beijing) Co., Ltd.
- 13.23.1 Benewake (Beijing) Co., Ltd. Company Information
- 13.23.2 Benewake (Beijing) Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
- 13.23.3 Benewake (Beijing) Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.23.4 Benewake (Beijing) Co., Ltd. Main Business Overview
- 13.23.5 Benewake (Beijing) Co., Ltd. Latest Developments
- 13.24 Shanghai Siminics Optoelectronics Technology Co., Ltd.
- 13.24.1 Shanghai Siminics Optoelectronics Technology Co., Ltd. Company Information
- 13.24.2 Shanghai Siminics Optoelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
- 13.24.3 Shanghai Siminics Optoelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.24.4 Shanghai Siminics Optoelectronics Technology Co., Ltd. Main Business Overview
- 13.24.5 Shanghai Siminics Optoelectronics Technology Co., Ltd. Latest Developments
- 13.25 Shenzhen EAI Technology. Co., Ltd.
- 13.25.1 Shenzhen EAI Technology. Co., Ltd. Company Information
- 13.25.2 Shenzhen EAI Technology. Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
- 13.25.3 Shenzhen EAI Technology. Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.25.4 Shenzhen EAI Technology. Co., Ltd. Main Business Overview
- 13.25.5 Shenzhen EAI Technology. Co., Ltd. Latest Developments
- 13.26 Orbbec Inc.
- 13.26.1 Orbbec Inc. Company Information
- 13.26.2 Orbbec Inc. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
- 13.26.3 Orbbec Inc. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.26.4 Orbbec Inc. Main Business Overview

- 13.26.5 Orbbec Inc. Latest Developments
- 13.27 Shenzhen Angstrong Technology Co., Ltd.
  - 13.27.1 Shenzhen Angstrong Technology Co., Ltd. Company Information
  - 13.27.2 Shenzhen Angstrong Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.27.3 Shenzhen Angstrong Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.27.4 Shenzhen Angstrong Technology Co., Ltd. Main Business Overview
  - 13.27.5 Shenzhen Angstrong Technology Co., Ltd. Latest Developments
- 13.28 Shanghai Hesai Technology Co., Ltd.
  - 13.28.1 Shanghai Hesai Technology Co., Ltd. Company Information
  - 13.28.2 Shanghai Hesai Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.28.3 Shanghai Hesai Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.28.4 Shanghai Hesai Technology Co., Ltd. Main Business Overview
  - 13.28.5 Shanghai Hesai Technology Co., Ltd. Latest Developments
- 13.29 Wuhan Lingtu Sensing Technology Co., Ltd.
  - 13.29.1 Wuhan Lingtu Sensing Technology Co., Ltd. Company Information
  - 13.29.2 Wuhan Lingtu Sensing Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.29.3 Wuhan Lingtu Sensing Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.29.4 Wuhan Lingtu Sensing Technology Co., Ltd. Main Business Overview
  - 13.29.5 Wuhan Lingtu Sensing Technology Co., Ltd. Latest Developments
- 13.30 Q Technology (Group) Company Limited
  - 13.30.1 Q Technology (Group) Company Limited Company Information
  - 13.30.2 Q Technology (Group) Company Limited Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.30.3 Q Technology (Group) Company Limited Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.30.4 Q Technology (Group) Company Limited Main Business Overview
  - 13.30.5 Q Technology (Group) Company Limited Latest Developments
- 13.31 Luxvisions Innovation Limited
  - 13.31.1 Luxvisions Innovation Limited Company Information
  - 13.31.2 Luxvisions Innovation Limited Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.31.3 Luxvisions Innovation Limited Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.31.4 Luxvisions Innovation Limited Main Business Overview
- 13.31.5 Luxvisions Innovation Limited Latest Developments
- 13.32 Optical Micro Information Technology (Hefei) Co., Ltd.
  - 13.32.1 Optical Micro Information Technology (Hefei) Co., Ltd. Company Information
  - 13.32.2 Optical Micro Information Technology (Hefei) Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.32.3 Optical Micro Information Technology (Hefei) Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.32.4 Optical Micro Information Technology (Hefei) Co., Ltd. Main Business Overview
  - 13.32.5 Optical Micro Information Technology (Hefei) Co., Ltd. Latest Developments
- 13.33 Ofilm Group
  - 13.33.1 Ofilm Group Company Information
  - 13.33.2 Ofilm Group Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.33.3 Ofilm Group Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.33.4 Ofilm Group Main Business Overview
  - 13.33.5 Ofilm Group Latest Developments
- 13.34 Zhejiang Sunny Optical Intelligent Technology Co., Ltd.
  - 13.34.1 Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Company Information
  - 13.34.2 Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.34.3 Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.34.4 Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Main Business Overview
  - 13.34.5 Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Latest Developments
- 13.35 Nanjing VisionICs Microelectronics Technology Co., Ltd.
  - 13.35.1 Nanjing VisionICs Microelectronics Technology Co., Ltd. Company Information
  - 13.35.2 Nanjing VisionICs Microelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications
  - 13.35.3 Nanjing VisionICs Microelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  - 13.35.4 Nanjing VisionICs Microelectronics Technology Co., Ltd. Main Business Overview
  - 13.35.5 Nanjing VisionICs Microelectronics Technology Co., Ltd. Latest Developments
- 13.36 ShenZhen Xisu Technology Co., Ltd.
  - 13.36.1 ShenZhen Xisu Technology Co., Ltd. Company Information

13.36.2 ShenZhen Xisu Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.36.3 ShenZhen Xisu Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.36.4 ShenZhen Xisu Technology Co., Ltd. Main Business Overview

13.36.5 ShenZhen Xisu Technology Co., Ltd. Latest Developments

13.37 GoerMicroelectronics Co., Ltd.

13.37.1 GoerMicroelectronics Co., Ltd. Company Information

13.37.2 GoerMicroelectronics Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

13.37.3 GoerMicroelectronics Co., Ltd. Sweeping Robot Avoidance Sensor Sales, Revenue, Price and Gross Margin (2020-2025)

13.37.4 GoerMicroelectronics Co., Ltd. Main Business Overview

13.37.5 GoerMicroelectronics Co., Ltd. Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Sweeping Robot Avoidance Sensor Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Sweeping Robot Avoidance Sensor Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of 3D TOF
- Table 4. Major Players of Visual Obstacle Avoidance
- Table 5. Major Players of LiDAR
- Table 6. Major Players of Others
- Table 7. Global Sweeping Robot Avoidance Sensor Sales by Type (2020-2025) & (K Units)
- Table 8. Global Sweeping Robot Avoidance Sensor Sales Market Share by Type (2020-2025)
- Table 9. Global Sweeping Robot Avoidance Sensor Revenue by Type (2020-2025) & (\$ million)
- Table 10. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Type (2020-2025)
- Table 11. Global Sweeping Robot Avoidance Sensor Sale Price by Type (2020-2025) & (US\$/Unit)
- Table 12. Global Sweeping Robot Avoidance Sensor Sale by Application (2020-2025) & (K Units)
- Table 13. Global Sweeping Robot Avoidance Sensor Sale Market Share by Application (2020-2025)
- Table 14. Global Sweeping Robot Avoidance Sensor Revenue by Application (2020-2025) & (\$ million)
- Table 15. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Application (2020-2025)
- Table 16. Global Sweeping Robot Avoidance Sensor Sale Price by Application (2020-2025) & (US\$/Unit)
- Table 17. Global Sweeping Robot Avoidance Sensor Sales by Company (2020-2025) & (K Units)
- Table 18. Global Sweeping Robot Avoidance Sensor Sales Market Share by Company (2020-2025)
- Table 19. Global Sweeping Robot Avoidance Sensor Revenue by Company (2020-2025) & (\$ millions)
- Table 20. Global Sweeping Robot Avoidance Sensor Revenue Market Share by

Company (2020-2025)

Table 21. Global Sweeping Robot Avoidance Sensor Sale Price by Company (2020-2025) & (US\$/Unit)

Table 22. Key Manufacturers Sweeping Robot Avoidance Sensor Producing Area Distribution and Sales Area

Table 23. Players Sweeping Robot Avoidance Sensor Products Offered

Table 24. Sweeping Robot Avoidance Sensor Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global Sweeping Robot Avoidance Sensor Sales by Geographic Region (2020-2025) & (K Units)

Table 28. Global Sweeping Robot Avoidance Sensor Sales Market Share Geographic Region (2020-2025)

Table 29. Global Sweeping Robot Avoidance Sensor Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 30. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Geographic Region (2020-2025)

Table 31. Global Sweeping Robot Avoidance Sensor Sales by Country/Region (2020-2025) & (K Units)

Table 32. Global Sweeping Robot Avoidance Sensor Sales Market Share by Country/Region (2020-2025)

Table 33. Global Sweeping Robot Avoidance Sensor Revenue by Country/Region (2020-2025) & (\$ millions)

Table 34. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Country/Region (2020-2025)

Table 35. Americas Sweeping Robot Avoidance Sensor Sales by Country (2020-2025) & (K Units)

Table 36. Americas Sweeping Robot Avoidance Sensor Sales Market Share by Country (2020-2025)

Table 37. Americas Sweeping Robot Avoidance Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 38. Americas Sweeping Robot Avoidance Sensor Sales by Type (2020-2025) & (K Units)

Table 39. Americas Sweeping Robot Avoidance Sensor Sales by Application (2020-2025) & (K Units)

Table 40. APAC Sweeping Robot Avoidance Sensor Sales by Region (2020-2025) & (K Units)

Table 41. APAC Sweeping Robot Avoidance Sensor Sales Market Share by Region

(2020-2025)

Table 42. APAC Sweeping Robot Avoidance Sensor Revenue by Region (2020-2025) & (\$ millions)

Table 43. APAC Sweeping Robot Avoidance Sensor Sales by Type (2020-2025) & (K Units)

Table 44. APAC Sweeping Robot Avoidance Sensor Sales by Application (2020-2025) & (K Units)

Table 45. Europe Sweeping Robot Avoidance Sensor Sales by Country (2020-2025) & (K Units)

Table 46. Europe Sweeping Robot Avoidance Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 47. Europe Sweeping Robot Avoidance Sensor Sales by Type (2020-2025) & (K Units)

Table 48. Europe Sweeping Robot Avoidance Sensor Sales by Application (2020-2025) & (K Units)

Table 49. Middle East & Africa Sweeping Robot Avoidance Sensor Sales by Country (2020-2025) & (K Units)

Table 50. Middle East & Africa Sweeping Robot Avoidance Sensor Revenue Market Share by Country (2020-2025)

Table 51. Middle East & Africa Sweeping Robot Avoidance Sensor Sales by Type (2020-2025) & (K Units)

Table 52. Middle East & Africa Sweeping Robot Avoidance Sensor Sales by Application (2020-2025) & (K Units)

Table 53. Key Market Drivers & Growth Opportunities of Sweeping Robot Avoidance Sensor

Table 54. Key Market Challenges & Risks of Sweeping Robot Avoidance Sensor

Table 55. Key Industry Trends of Sweeping Robot Avoidance Sensor

Table 56. Sweeping Robot Avoidance Sensor Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. Sweeping Robot Avoidance Sensor Distributors List

Table 59. Sweeping Robot Avoidance Sensor Customer List

Table 60. Global Sweeping Robot Avoidance Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 61. Global Sweeping Robot Avoidance Sensor Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 62. Americas Sweeping Robot Avoidance Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 63. Americas Sweeping Robot Avoidance Sensor Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 64. APAC Sweeping Robot Avoidance Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 65. APAC Sweeping Robot Avoidance Sensor Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 66. Europe Sweeping Robot Avoidance Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 67. Europe Sweeping Robot Avoidance Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Middle East & Africa Sweeping Robot Avoidance Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 69. Middle East & Africa Sweeping Robot Avoidance Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 70. Global Sweeping Robot Avoidance Sensor Sales Forecast by Type (2026-2031) & (K Units)

Table 71. Global Sweeping Robot Avoidance Sensor Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 72. Global Sweeping Robot Avoidance Sensor Sales Forecast by Application (2026-2031) & (K Units)

Table 73. Global Sweeping Robot Avoidance Sensor Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 74. Velodyne Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 75. Velodyne Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 76. Velodyne Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 77. Velodyne Main Business

Table 78. Velodyne Latest Developments

Table 79. Pepperl+Fuchs Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 80. Pepperl+Fuchs Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 81. Pepperl+Fuchs Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 82. Pepperl+Fuchs Main Business

Table 83. Pepperl+Fuchs Latest Developments

Table 84. Hokuyo Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 85. Hokuyo Sweeping Robot Avoidance Sensor Product Portfolios and

## Specifications

Table 86. Hokuyo Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 87. Hokuyo Main Business

Table 88. Hokuyo Latest Developments

Table 89. Newsight Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 90. Newsight Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 91. Newsight Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 92. Newsight Main Business

Table 93. Newsight Latest Developments

Table 94. GZ Cyndar Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 95. GZ Cyndar Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 96. GZ Cyndar Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 97. GZ Cyndar Main Business

Table 98. GZ Cyndar Latest Developments

Table 99. YUJIN ROBOT Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 100. YUJIN ROBOT Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 101. YUJIN ROBOT Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 102. YUJIN ROBOT Main Business

Table 103. YUJIN ROBOT Latest Developments

Table 104. SICK AG Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 105. SICK AG Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 106. SICK AG Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 107. SICK AG Main Business

Table 108. SICK AG Latest Developments

Table 109. OMRON Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 110. OMRON Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 111. OMRON Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 112. OMRON Main Business

Table 113. OMRON Latest Developments

Table 114. LG Innotek Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 115. LG Innotek Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 116. LG Innotek Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 117. LG Innotek Main Business

Table 118. LG Innotek Latest Developments

Table 119. Toppan Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 120. Toppan Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 121. Toppan Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 122. Toppan Main Business

Table 123. Toppan Latest Developments

Table 124. DOMI Sensor Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 125. DOMI Sensor Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 126. DOMI Sensor Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 127. DOMI Sensor Main Business

Table 128. DOMI Sensor Latest Developments

Table 129. Vsemi Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 130. Vsemi Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 131. Vsemi Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 132. Vsemi Main Business

Table 133. Vsemi Latest Developments

Table 134. Leopard Basic Information, Sweeping Robot Avoidance Sensor

Manufacturing Base, Sales Area and Its Competitors

Table 135. Leopard Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 136. Leopard Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 137. Leopard Main Business

Table 138. Leopard Latest Developments

Table 139. Shanghai Slamtec Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 140. Shanghai Slamtec Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 141. Shanghai Slamtec Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 142. Shanghai Slamtec Co., Ltd. Main Business

Table 143. Shanghai Slamtec Co., Ltd. Latest Developments

Table 144. Richbeam (Beijing) Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 145. Richbeam (Beijing) Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 146. Richbeam (Beijing) Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 147. Richbeam (Beijing) Technology Co., Ltd. Main Business

Table 148. Richbeam (Beijing) Technology Co., Ltd. Latest Developments

Table 149. Shenzhen Suteng Innovation Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 150. Shenzhen Suteng Innovation Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 151. Shenzhen Suteng Innovation Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 152. Shenzhen Suteng Innovation Technology Co., Ltd. Main Business

Table 153. Shenzhen Suteng Innovation Technology Co., Ltd. Latest Developments

Table 154. Ningbo Osight Photoelectric Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 155. Ningbo Osight Photoelectric Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 156. Ningbo Osight Photoelectric Technology Co., Ltd. Sweeping Robot

Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 157. Ningbo Osight Photoelectric Technology Co., Ltd. Main Business

Table 158. Ningbo Osight Photoelectric Technology Co., Ltd. Latest Developments

Table 159. Shenzhen Litra Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 160. Shenzhen Litra Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 161. Shenzhen Litra Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 162. Shenzhen Litra Technology Co., Ltd. Main Business

Table 163. Shenzhen Litra Technology Co., Ltd. Latest Developments

Table 164. Beijing VanJee Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 165. Beijing VanJee Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 166. Beijing VanJee Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 167. Beijing VanJee Technology Co., Ltd. Main Business

Table 168. Beijing VanJee Technology Co., Ltd. Latest Developments

Table 169. Shenzhen FaseLase Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 170. Shenzhen FaseLase Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 171. Shenzhen FaseLase Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 172. Shenzhen FaseLase Co., Ltd. Main Business

Table 173. Shenzhen FaseLase Co., Ltd. Latest Developments

Table 174. Hangzhou OLE-SYSTEMS Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 175. Hangzhou OLE-SYSTEMS Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 176. Hangzhou OLE-SYSTEMS Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 177. Hangzhou OLE-SYSTEMS Co., Ltd. Main Business

Table 178. Hangzhou OLE-SYSTEMS Co., Ltd. Latest Developments

Table 179. Huawei TECHNOLOGIES Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 180. Huawei TECHNOLOGIES Co., Ltd. Sweeping Robot Avoidance Sensor

## Product Portfolios and Specifications

Table 181. Huawei TECHNOLOGIES Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 182. Huawei TECHNOLOGIES Co., Ltd. Main Business

Table 183. Huawei TECHNOLOGIES Co., Ltd. Latest Developments

Table 184. Benewake (Beijing) Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 185. Benewake (Beijing) Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 186. Benewake (Beijing) Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 187. Benewake (Beijing) Co., Ltd. Main Business

Table 188. Benewake (Beijing) Co., Ltd. Latest Developments

Table 189. Shanghai Siminics Optoelectronics Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 190. Shanghai Siminics Optoelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 191. Shanghai Siminics Optoelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 192. Shanghai Siminics Optoelectronics Technology Co., Ltd. Main Business

Table 193. Shanghai Siminics Optoelectronics Technology Co., Ltd. Latest Developments

Table 194. Shenzhen EAI Technology. Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 195. Shenzhen EAI Technology. Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 196. Shenzhen EAI Technology. Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 197. Shenzhen EAI Technology. Co., Ltd. Main Business

Table 198. Shenzhen EAI Technology. Co., Ltd. Latest Developments

Table 199. Orbbec Inc. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 200. Orbbec Inc. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 201. Orbbec Inc. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 202. Orbbec Inc. Main Business

Table 203. Orbbec Inc. Latest Developments

Table 204. Shenzhen Angstrong Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 205. Shenzhen Angstrong Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 206. Shenzhen Angstrong Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 207. Shenzhen Angstrong Technology Co., Ltd. Main Business

Table 208. Shenzhen Angstrong Technology Co., Ltd. Latest Developments

Table 209. Shanghai Hesai Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 210. Shanghai Hesai Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 211. Shanghai Hesai Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 212. Shanghai Hesai Technology Co., Ltd. Main Business

Table 213. Shanghai Hesai Technology Co., Ltd. Latest Developments

Table 214. Wuhan Lingtu Sensing Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 215. Wuhan Lingtu Sensing Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 216. Wuhan Lingtu Sensing Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 217. Wuhan Lingtu Sensing Technology Co., Ltd. Main Business

Table 218. Wuhan Lingtu Sensing Technology Co., Ltd. Latest Developments

Table 219. Q Technology (Group) Company Limited Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 220. Q Technology (Group) Company Limited Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 221. Q Technology (Group) Company Limited Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 222. Q Technology (Group) Company Limited Main Business

Table 223. Q Technology (Group) Company Limited Latest Developments

Table 224. Luxvisions Innovation Limited Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 225. Luxvisions Innovation Limited Sweeping Robot Avoidance Sensor Product

## Portfolios and Specifications

Table 226. Luxvisions Innovation Limited Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 227. Luxvisions Innovation Limited Main Business

Table 228. Luxvisions Innovation Limited Latest Developments

Table 229. Optical Micro Information Technology (Hefei) Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 230. Optical Micro Information Technology (Hefei) Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 231. Optical Micro Information Technology (Hefei) Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 232. Optical Micro Information Technology (Hefei) Co., Ltd. Main Business

Table 233. Optical Micro Information Technology (Hefei) Co., Ltd. Latest Developments

Table 234. Ofilm Group Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 235. Ofilm Group Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 236. Ofilm Group Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 237. Ofilm Group Main Business

Table 238. Ofilm Group Latest Developments

Table 239. Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 240. Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 241. Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 242. Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Main Business

Table 243. Zhejiang Sunny Optical Intelligent Technology Co., Ltd. Latest Developments

Table 244. Nanjing VisionICs Microelectronics Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 245. Nanjing VisionICs Microelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 246. Nanjing VisionICs Microelectronics Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 247. Nanjing VisionICs Microelectronics Technology Co., Ltd. Main Business

Table 248. Nanjing VisionICs Microelectronics Technology Co., Ltd. Latest Developments

Table 249. ShenZhen Xisu Technology Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 250. ShenZhen Xisu Technology Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 251. ShenZhen Xisu Technology Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 252. ShenZhen Xisu Technology Co., Ltd. Main Business

Table 253. ShenZhen Xisu Technology Co., Ltd. Latest Developments

Table 254. GoerMicroelectronics Co., Ltd. Basic Information, Sweeping Robot Avoidance Sensor Manufacturing Base, Sales Area and Its Competitors

Table 255. GoerMicroelectronics Co., Ltd. Sweeping Robot Avoidance Sensor Product Portfolios and Specifications

Table 256. GoerMicroelectronics Co., Ltd. Sweeping Robot Avoidance Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 257. GoerMicroelectronics Co., Ltd. Main Business

Table 258. GoerMicroelectronics Co., Ltd. Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Sweeping Robot Avoidance Sensor
- Figure 2. Sweeping Robot Avoidance Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Sweeping Robot Avoidance Sensor Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Sweeping Robot Avoidance Sensor Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Sweeping Robot Avoidance Sensor Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Sweeping Robot Avoidance Sensor Sales Market Share by Country/Region (2024)
- Figure 10. Sweeping Robot Avoidance Sensor Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of 3D TOF
- Figure 12. Product Picture of Visual Obstacle Avoidance
- Figure 13. Product Picture of LiDAR
- Figure 14. Product Picture of Others
- Figure 15. Global Sweeping Robot Avoidance Sensor Sales Market Share by Type in 2025
- Figure 16. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Type (2020-2025)
- Figure 17. Sweeping Robot Avoidance Sensor Consumed in Home Sweeping Robot
- Figure 18. Global Sweeping Robot Avoidance Sensor Market: Home Sweeping Robot (2020-2025) & (K Units)
- Figure 19. Sweeping Robot Avoidance Sensor Consumed in Commercial Sweeping Robot
- Figure 20. Global Sweeping Robot Avoidance Sensor Market: Commercial Sweeping Robot (2020-2025) & (K Units)
- Figure 21. Sweeping Robot Avoidance Sensor Consumed in Others
- Figure 22. Global Sweeping Robot Avoidance Sensor Market: Others (2020-2025) & (K Units)
- Figure 23. Global Sweeping Robot Avoidance Sensor Sale Market Share by Application (2024)

Figure 24. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Application in 2025

Figure 25. Sweeping Robot Avoidance Sensor Sales by Company in 2025 (K Units)

Figure 26. Global Sweeping Robot Avoidance Sensor Sales Market Share by Company in 2025

Figure 27. Sweeping Robot Avoidance Sensor Revenue by Company in 2025 (\$ millions)

Figure 28. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Company in 2025

Figure 29. Global Sweeping Robot Avoidance Sensor Sales Market Share by Geographic Region (2020-2025)

Figure 30. Global Sweeping Robot Avoidance Sensor Revenue Market Share by Geographic Region in 2025

Figure 31. Americas Sweeping Robot Avoidance Sensor Sales 2020-2025 (K Units)

Figure 32. Americas Sweeping Robot Avoidance Sensor Revenue 2020-2025 (\$ millions)

Figure 33. APAC Sweeping Robot Avoidance Sensor Sales 2020-2025 (K Units)

Figure 34. APAC Sweeping Robot Avoidance Sensor Revenue 2020-2025 (\$ millions)

Figure 35. Europe Sweeping Robot Avoidance Sensor Sales 2020-2025 (K Units)

Figure 36. Europe Sweeping Robot Avoidance Sensor Revenue 2020-2025 (\$ millions)

Figure 37. Middle East & Africa Sweeping Robot Avoidance Sensor Sales 2020-2025 (K Units)

Figure 38. Middle East & Africa Sweeping Robot Avoidance Sensor Revenue 2020-2025 (\$ millions)

Figure 39. Americas Sweeping Robot Avoidance Sensor Sales Market Share by Country in 2025

Figure 40. Americas Sweeping Robot Avoidance Sensor Revenue Market Share by Country (2020-2025)

Figure 41. Americas Sweeping Robot Avoidance Sensor Sales Market Share by Type (2020-2025)

Figure 42. Americas Sweeping Robot Avoidance Sensor Sales Market Share by Application (2020-2025)

Figure 43. United States Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 44. Canada Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 45. Mexico Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 46. Brazil Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$

millions)

Figure 47. APAC Sweeping Robot Avoidance Sensor Sales Market Share by Region in 2025

Figure 48. APAC Sweeping Robot Avoidance Sensor Revenue Market Share by Region (2020-2025)

Figure 49. APAC Sweeping Robot Avoidance Sensor Sales Market Share by Type (2020-2025)

Figure 50. APAC Sweeping Robot Avoidance Sensor Sales Market Share by Application (2020-2025)

Figure 51. China Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 52. Japan Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 53. South Korea Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 54. Southeast Asia Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 55. India Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 56. Australia Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 57. China Taiwan Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 58. Europe Sweeping Robot Avoidance Sensor Sales Market Share by Country in 2025

Figure 59. Europe Sweeping Robot Avoidance Sensor Revenue Market Share by Country (2020-2025)

Figure 60. Europe Sweeping Robot Avoidance Sensor Sales Market Share by Type (2020-2025)

Figure 61. Europe Sweeping Robot Avoidance Sensor Sales Market Share by Application (2020-2025)

Figure 62. Germany Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 63. France Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 64. UK Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 65. Italy Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 66. Russia Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 67. Middle East & Africa Sweeping Robot Avoidance Sensor Sales Market Share by Country (2020-2025)

Figure 68. Middle East & Africa Sweeping Robot Avoidance Sensor Sales Market Share by Type (2020-2025)

Figure 69. Middle East & Africa Sweeping Robot Avoidance Sensor Sales Market Share by Application (2020-2025)

Figure 70. Egypt Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 71. South Africa Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 72. Israel Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 73. Turkey Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 74. GCC Countries Sweeping Robot Avoidance Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 75. Manufacturing Cost Structure Analysis of Sweeping Robot Avoidance Sensor in 2025

Figure 76. Manufacturing Process Analysis of Sweeping Robot Avoidance Sensor

Figure 77. Industry Chain Structure of Sweeping Robot Avoidance Sensor

Figure 78. Channels of Distribution

Figure 79. Global Sweeping Robot Avoidance Sensor Sales Market Forecast by Region (2026-2031)

Figure 80. Global Sweeping Robot Avoidance Sensor Revenue Market Share Forecast by Region (2026-2031)

Figure 81. Global Sweeping Robot Avoidance Sensor Sales Market Share Forecast by Type (2026-2031)

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