

Global 3D ToF Sensor for Robots Market Growth 2025-2031

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Abstracts

The global 3D ToF Sensor for Robots market size is predicted to grow from US\$ 107 million in 2025 to US\$ 216 million in 2031; it is expected to grow at a CAGR of 12.4% 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 3D ToF Sensor for Robots is a spatial perception device specifically designed for robot systems. Based on the Time of Flight (ToF) principle, it emits modulated light signals of a specific wavelength towards the target scene and accurately measures the time taken for the light signals to travel from emission to reflection back to the sensor by objects in the scene, thereby calculating the distance information between the objects and the sensor. The sensor can rapidly acquire three-dimensional depth data of the target scene and construct a high-precision three-dimensional point cloud model, providing the robot with crucial information about the spatial structure and object position distribution in the surrounding environment. With its high real-time performance, high accuracy, and adaptability to complex environments, it enables robots to achieve various functions such as precise navigation, target recognition, obstacle avoidance, and human-robot interaction, and holds significant application value in fields like industrial automation and service robotics.

United States market for 3D ToF Sensor for Robots 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 3D ToF Sensor for Robots 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 3D ToF Sensor for Robots is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key 3D ToF Sensor for Robots players cover OMRON, LG Innotek, Infineon, Toppan, Broadcom, 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 "3D ToF Sensor for Robots Industry Forecast" looks at past sales and reviews total world 3D ToF Sensor for Robots sales in 2024, providing a comprehensive analysis by region and market sector of projected 3D ToF Sensor for Robots sales for 2025 through 2031. With 3D ToF Sensor for Robots sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 3D ToF Sensor for Robots industry.

This Insight Report provides a comprehensive analysis of the global 3D ToF Sensor for Robots 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 3D ToF Sensor for Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 3D ToF Sensor for Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D ToF Sensor for Robots 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 3D ToF Sensor for Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D ToF Sensor for Robots market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Measurement Range Below 3m

Measurement Range 3-5m

Measurement Range Above 5m

Segmentation by Application:

Mobile Robots

Sweeping Robots

Humanoid Robots

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.

OMRON

LG Innotek

Infineon

Toppan

Broadcom

DOMI Sensor

Nuvoton

ADI

Vsemi

Leopard

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.

Orbbec Inc.

ShenZhen Xisu Technology Co., Ltd.

GoerMicroelectronics Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D ToF Sensor for Robots market?

What factors are driving 3D ToF Sensor for Robots market growth, globally and by region?

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

How do 3D ToF Sensor for Robots market opportunities vary by end market size?

How does 3D ToF Sensor for Robots break out by Type, by Application?

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