

Global Robotic Object Detection/Tracking Sensors Market Growth 2026-2032

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Abstracts

The global Robotic Object Detection/Tracking Sensors market size is predicted to grow from US\$ 4363 million in 2025 to US\$ 15186 million in 2032; it is expected to grow at a CAGR of 19.6% from 2026 to 2032.

In 2025, global Robotic Object Detection/Tracking Sensors production reached approximately 15 million units, with an average global market price of around US\$ 300 per unit. Annual production capacity is 18 million units. Gross Profit Margin: 39%. Robotic Object Detection and Tracking Sensors are sensing devices that enable robots to identify, locate, and continuously track objects, people, or obstacles within their environment. The industry chain begins with semiconductor manufacturers producing sensing chips, photonic components, and MEMS devices. These components are integrated by sensor module manufacturers and robotics perception solution providers, and then incorporated into robots used in manufacturing, logistics, healthcare, agriculture, and autonomous mobility systems. Robotic object detection and tracking sensors form the perception layer of modern robotics.

United States market for Robotic Object Detection/Tracking Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Robotic Object Detection/Tracking Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Robotic Object Detection/Tracking Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

Global key Robotic Object Detection/Tracking Sensors players cover Sony Group Corporation (TYO: 6758, Japan), Intel (NASDAQ: INTC, USA), NVIDIA (NASDAQ: NVDA, USA), STMicroelectronics (NYSE: STM, Switzerland/France), Texas Instruments (NASDAQ: TXN, USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Robotic Object Detection/Tracking Sensors Industry Forecast? looks at past sales and reviews total world Robotic Object Detection/Tracking Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Robotic Object Detection/Tracking Sensors sales for 2026 through 2032. With Robotic Object Detection/Tracking Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Robotic Object Detection/Tracking Sensors industry.

This Insight Report provides a comprehensive analysis of the global Robotic Object Detection/Tracking Sensors 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 Robotic Object Detection/Tracking Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Robotic Object Detection/Tracking Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robotic Object Detection/Tracking Sensors 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 Robotic Object Detection/Tracking Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Robotic Object Detection/Tracking Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vision Sensors

Depth / 3D Sensors

LiDAR Sensors

Radar Sensors

Ultrasonic Sensors

Infrared Sensors

Segmentation by Detection Function:

Object Detection Sensors

Motion Tracking Sensors

Human Tracking Sensors

Environment Mapping Sensors

Segmentation by Technology:

Optical Sensors

Laser Sensors

Radio Frequency Sensors

Acoustic Sensors

Segmentation by Application:

Industrial Robots

Service Robots

Autonomous Mobile Robots (AMRs)

Warehouse & Logistics Robots

Agricultural Robots

Security & Surveillance Robots

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.

Sony Group Corporation (TYO: 6758, Japan)

Intel (NASDAQ: INTC, USA)

NVIDIA (NASDAQ: NVDA, USA)

STMicroelectronics (NYSE: STM, Switzerland/France)

Texas Instruments (NASDAQ: TXN, USA)

Analog Devices (NASDAQ: ADI, USA)

Infineon Technologies (ETR: IFX, Germany)

OmniVision Technologies (Private, USA/China)

Velodyne Lidar (NASDAQ: VLDR, USA)

Ouster (NYSE: OUST, USA)

Luminar Technologies (NASDAQ: LAZR, USA)

Teledyne FLIR (NYSE: TDY, USA)

Basler AG (ETR: BSL, Germany)

Allied Vision Technologies (Private, Germany)

Hesai Technology (NASDAQ: HSAI, China)

RoboSense (HKG: 2498, China)

Hikvision (SHE: 002415, China)

Dahua Technology (SHE: 002236, China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robotic Object Detection/Tracking Sensors market?

What factors are driving Robotic Object Detection/Tracking Sensors market growth, globally and by region?

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

How do Robotic Object Detection/Tracking Sensors market opportunities vary by end market size?

How does Robotic Object Detection/Tracking Sensors break out by Type, by

Application?

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