

Global Robotic Object Detection/Tracking Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robotic Object Detection/Tracking Sensors market size is expected to reach \$ 15074 million by 2032, rising at a market growth of 18.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Robotic Object Detection/Tracking Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robotic Object Detection/Tracking Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robotic Object Detection/Tracking Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robotic Object Detection/Tracking Sensors total production and demand, 2021-2032, (K Units)

Global Robotic Object Detection/Tracking Sensors total production value, 2021-2032, (USD Million)

Global Robotic Object Detection/Tracking Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Robotic Object Detection/Tracking Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Robotic Object Detection/Tracking Sensors domestic production, consumption, key domestic manufacturers and share

Global Robotic Object Detection/Tracking Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Robotic Object Detection/Tracking Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Robotic Object Detection/Tracking Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robotic Object Detection/Tracking Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robotic Object Detection/Tracking Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Robotic Object Detection/Tracking Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotic Object Detection/Tracking Sensors Market, Segmentation by Type:

Vision Sensors

Depth / 3D Sensors

LiDAR Sensors

Radar Sensors

Ultrasonic Sensors

Infrared Sensors

Global Robotic Object Detection/Tracking Sensors Market, Segmentation by Detection

Function:

Object Detection Sensors

Motion Tracking Sensors

Human Tracking Sensors

Environment Mapping Sensors

Global Robotic Object Detection/Tracking Sensors Market, Segmentation by Technology:

Optical Sensors

Laser Sensors

Radio Frequency Sensors

Acoustic Sensors

Global Robotic Object Detection/Tracking Sensors Market, Segmentation by Application:

Industrial Robots

Service Robots

Autonomous Mobile Robots (AMRs)

Warehouse & Logistics Robots

Agricultural Robots

Security & Surveillance Robots

Companies Profiled:

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 Answered:

1. How big is the global Robotic Object Detection/Tracking Sensors market?
2. What is the demand of the global Robotic Object Detection/Tracking Sensors market?
3. What is the year over year growth of the global Robotic Object Detection/Tracking Sensors market?
4. What is the production and production value of the global Robotic Object Detection/Tracking Sensors market?
5. Who are the key producers in the global Robotic Object Detection/Tracking Sensors market?
6. What are the growth factors driving the market demand?

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