

Global 3D Cameras for Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 3D Cameras for Robots market size was valued at US\$ 1680 million in 2025 and is forecast to a readjusted size of US\$ 5305 million by 2032 with a CAGR of 18.1% during review period.

3D Cameras for Robots are specialized vision sensors equipped with 3D imaging capabilities, allowing robots and automated systems to perceive the three-dimensional world around them. These cameras use depth-sensing technology to create detailed 3D maps of their surroundings, enabling robots to navigate, manipulate objects, and interact with their environment more effectively.

As an important force driving a new round of scientific and technological revolution, artificial intelligence has been of national strategic importance. Many governments introduces polices and increase capital investment to support AI companies. The Digital Europe plan adopted by the European Union will allocate ?9.2 billion on high-tech investments, such as supercomputing, artificial intelligence, and network security. In order to maintain its leading position, the United States will increase its investment in artificial intelligence research and development in non-defense fields, from US\$1.6 billion to US\$1.7 billion in 2022. According to the latest data released by IDC, global artificial intelligence revenue was US\$432.8 billion in 2022, a year-on-year increase of 19.6%, including software, hardware and services.

This report is a detailed and comprehensive analysis for global 3D Cameras for Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that

contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 3D Cameras for Robots market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Cameras for Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Cameras for Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Cameras for Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D Cameras for Robots

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D Cameras for Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel, Basler AG, TKH Group, Cognex, Sick, e-con Systems, Stereolabs, Keyence, Nikon, Faro Technologies, etc.

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

Market Segmentation

3D Cameras for Robots market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Stereo Vision

Time of Flight

Others

Market segment by Application

Articulated Robots

Autonomous Mobile Robots

Humanoid Robots

Others

Major players covered

Intel

Basler AG

TKH Group

Cognex

Sick

e-con Systems

Stereolabs

Keyence

Nikon

Faro Technologies

Omron

National Instruments

Teledyne

Baumer Holding AG

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 3D Cameras for Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Cameras for Robots, with price, sales quantity, revenue, and global market share of 3D Cameras for Robots from 2021 to 2026.

Chapter 3, the 3D Cameras for Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Cameras for Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 3D Cameras for Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D Cameras for Robots.

Chapter 14 and 15, to describe 3D Cameras for Robots sales channel, distributors, customers, research findings and conclusion.

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