

Global 3D Camera for AGV 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 Camera for AGV market size was valued at US\$ 291 million in 2025 and is forecast to a readjusted size of US\$ 475 million by 2032 with a CAGR of 7.3% during review period.

3D Camera for AGV is a device installed on an automatic guided vehicle (AGV) that uses 3D imaging technology (such as structured light, ToF, etc.) to quickly obtain the three-dimensional position information of objects in the environment. It captures 3D data of dynamic or static objects to provide AGV with accurate spatial positioning, obstacle avoidance, path planning and target recognition capabilities. Its core functions include real-time generation of high-quality point cloud data, adaptation to different lighting and material conditions (such as reflective, dark objects), support for multi-view synthesis and three-dimensional modeling, and has the characteristics of high precision, high speed, and resistance to ambient light interference. It is widely used in scenarios such as unmanned forklift pallet recognition, AGV obstacle avoidance, industrial logistics handling, and disordered workpiece grasping, which can significantly improve the automated navigation efficiency and operation accuracy of AGV.

This report is a detailed and comprehensive analysis for global 3D Camera for AGV 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 Camera for AGV market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Camera for AGV 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 Camera for AGV 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 Camera for AGV 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 Camera for AGV

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 Camera for AGV 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 RealSense??, ??Orbbec??, ??Sony??, Allied Vision, Basler, KEYENCE, Mech-Mind Robotics, MRDVS, Photoneo, Reeman, etc.

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

Market Segmentation

3D Camera for AGV 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 3D Camera

Time of Flight 3D Camera

Others

Market segment by Application

Manufacturing

Warehousing and Logistics

Aerospace

Automobile

Others

Major players covered

??Intel RealSense??

??Orbbec??

??Sony??

Allied Vision

Basler

KEYENCE

Mech-Mind Robotics

MRDVS

Photoneo

Reeman

SICK AG

Stereolabs??

Vzense

Zivid

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 Camera for AGV product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Camera for AGV, with price,

sales quantity, revenue, and global market share of 3D Camera for AGV from 2021 to 2026.

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

Chapter 4, the 3D Camera for AGV 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 Camera for AGV 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 Camera for AGV.

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

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