

Global AI Vision-Based Navigation System Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global AI Vision-Based Navigation System market size was valued at US\$ 1201 million in 2024 and is forecast to a readjusted size of USD 3138 million by 2031 with a CAGR of 14.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

AI Vision-Based Navigation System is an autonomous navigation solution powered by artificial intelligence and computer vision technologies. It uses cameras to capture environmental images and employs algorithms such as deep learning, SLAM (Simultaneous Localization and Mapping), and semantic segmentation to analyze objects, depth, and motion in real time, enabling robot localization, path planning, and obstacle avoidance. Unlike LiDAR-dependent systems, it offers cost efficiency and rich environmental data (e.g., color, texture), making it suitable for logistics robots, autonomous vehicles, drones, industrial automation, and service robots. Key challenges include adaptability to lighting variations, dynamic object handling, and real-time computational efficiency.

This report is a detailed and comprehensive analysis for global AI Vision-Based Navigation System 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 AI Vision-Based Navigation System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global AI Vision-Based Navigation System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global AI Vision-Based Navigation System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global AI Vision-Based Navigation System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 AI Vision-Based Navigation System
- 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 AI Vision-Based Navigation System 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 Stereolabs, Transpoco, Hikrobot, Lips, Motive Technologies, Luxonis, Intel RealSense, Basler AG, e-con Systems, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AI Vision-Based Navigation System market is split by Type and by Application. For the period 2020-2031, 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

Software

Hardware

Market segment by Application

Logistics and Warehousing

Medical

Industrial Manufacturing

Others

Major players covered

Stereolabs

Transpoco

Hikrobot

Lips

Motive Technologies

Luxonis

Intel RealSense

Basler AG

e-con Systems

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 AI Vision-Based Navigation System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Vision-Based Navigation System, with price, sales quantity, revenue, and global market share of AI Vision-Based Navigation System from 2020 to 2025.

Chapter 3, the AI Vision-Based Navigation System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Vision-Based Navigation System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and AI Vision-Based Navigation System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 AI Vision-Based Navigation System.

Chapter 14 and 15, to describe AI Vision-Based Navigation System sales channel, distributors, customers, research findings and conclusion.

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