

Global 3D Position Tracking Device 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 3D Position Tracking Device market size was valued at US\$ 638 million in 2024 and is forecast to a readjusted size of USD 1187 million by 2031 with a CAGR of 9.4% during review period.

3D tracking technology digitizes, formats and visualizes measurement data to provide the detailed view needed. The positional motion of optical navigation markers or EM sensors can be tracked in the X, Y, and Z axes of a 3D coordinate system. Rotations on these axes (roll, pitch, and yaw) are calculated as orientation data. Motion in all directions is known from any angle/viewpoint. The motion is reported relative to a fixed object or frame of reference; the 'home' position. Multiple objects and their respective relative positions can be dynamically tracked simultaneously.

The development of 3D Position Tracking Device is still in the middle and early stages. The market penetration rate in developing countries is low, the potential market demand is large, and the demand for high-quality products is relatively strong.

This report is a detailed and comprehensive analysis for global 3D Position Tracking Device 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 Position Tracking Device market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 3D Position Tracking Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 3D Position Tracking Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 3D Position Tracking Device market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 3D Position Tracking Device

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 Position Tracking Device 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 AKM(Asahi Kasei Microdevices Corporation), AmfiTrack, Bosch, Eztrack, IndoTraq, loopbio, Movella, Northern Digital, Ommo, OptiTrack, etc.

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

Market Segmentation

3D Position Tracking Device 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

Optical Tracking

Electromagnetic Tracking

Market segment by Application

Education

Industrial

Entertainment

Military

Medical

Others

Major players covered

AKM(Asahi Kasei Microdevices Corporation)

AmfiTrack

Bosch

Eztrack

IndoTraq

loopbio

Movella

Northern Digital

Ommo

OptiTrack

Polhemus

Xsens

PS-Tech

PTI Phoenix Technologies

Sony

Vicon

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 Position Tracking Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Position Tracking Device, with price, sales quantity, revenue, and global market share of 3D Position Tracking Device from 2020 to 2025.

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

Chapter 4, the 3D Position Tracking Device 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 3D Position Tracking Device 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 3D Position Tracking Device.

Chapter 14 and 15, to describe 3D Position Tracking Device sales channel, distributors, customers, research findings and conclusion.

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