

Global Inertial Motion Capture (IMC) Systems 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 Inertial Motion Capture (IMC) Systems market size was valued at US\$ 154 million in 2024 and is forecast to a readjusted size of USD 297 million by 2031 with a CAGR of 10.0% 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.

Inertial motion capture system (or IMU-based motion capture) employs sensors embedded in the actor's equipment or clothing. These sensors, which include magnetometers, gyroscopes, and accelerometers, enable real-time monitoring of the body's orientation and movement. The primary advantages of inertial motion capture lie in its mobility and user-friendliness. It does not require an enclosed space with specific lighting conditions; thus, it can be utilized outdoors. However, due to sensor drift, inertial motion capture may not accurately record absolute position and orientation over extended periods.

This report is a detailed and comprehensive analysis for global Inertial Motion Capture (IMC) Systems 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 Inertial Motion Capture (IMC) Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Inertial Motion Capture (IMC) Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Inertial Motion Capture (IMC) Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Inertial Motion Capture (IMC) Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Inertial Motion Capture (IMC) Systems

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 Inertial Motion Capture (IMC) Systems 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 Noraxon, AiQ Synertial, Vicon Motion Systems Ltd, Movella Inc., Technaid SL, NANSENSE Inc., Rokoko, STT Systems Group, LP-RESEARCH, Guangzhou Virdyn Network Technology Company, etc.

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

Market Segmentation

Inertial Motion Capture (IMC) Systems 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

Wired Transmission

Wireless Transmission

Market segment by Application

Film and Television Production

Medical Rehabilitation

Sports Science

Industrial Design

Others

Major players covered

Noraxon

AiQ Synertial

Vicon Motion Systems Ltd

Movella Inc.

Technaid SL

NANSENSE Inc.

Rokoko

STT Systems Group

LP-RESEARCH

Guangzhou Virdyn Network Technology Company

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 Inertial Motion Capture (IMC) Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Inertial Motion Capture (IMC) Systems, with price, sales quantity, revenue, and global market share of Inertial Motion Capture (IMC) Systems from 2020 to 2025.

Chapter 3, the Inertial Motion Capture (IMC) Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Inertial Motion Capture (IMC) Systems 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 Inertial Motion Capture (IMC) Systems 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 Inertial Motion Capture (IMC) Systems.

Chapter 14 and 15, to describe Inertial Motion Capture (IMC) Systems sales channel, distributors, customers, research findings and conclusion.

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