

Global AI Glasses IMU 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 AI Glasses IMU market size was valued at US\$ 23.27 million in 2025 and is forecast to a readjusted size of US\$ 85.82 million by 2032 with a CAGR of 20.3% during review period.

The IMU (Inertial Measurement Unit) in AI glasses is a core sensing module used to perceive the device's own motion state and spatial attitude.

The AI ??glasses IMU is a miniature multi-axis inertial sensor assembly integrated inside the AI ??glasses. By collecting motion data such as acceleration, angular velocity, and attitude angles (pitch/roll/yaw) in real time, it provides the core sensing module for spatial positioning, attitude perception, head tracking, interactive control, and environmental understanding. It is a key hardware foundation for achieving AR display stabilization, gesture interaction, SLAM mapping, and spatial computing.

The IMU's roles in AI glasses include head posture tracking, spatial positioning assistance, gesture/action recognition, stabilization, and image stabilization.

The upstream core component of the AI ??glasses IMU is the MEMS chip. Upstream technologies include MEMS manufacturing processes, packaging and calibration technologies, low-power design, and high-precision gyroscope algorithms. Midstream core links include IMU module integration, algorithm fusion, SIP packaging, and ODM/OEM for the entire device.

In 2025, global sales of AI glasses IMUs will reach 8.7 million units, with a production capacity of approximately 105 million units. The average selling price is \$2.6 per unit, and the average gross profit margin is 30%-40%.

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

Global AI Glasses IMU market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Glasses IMU market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Glasses IMU market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 AI Glasses IMU

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 Glasses IMU 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 Bosch Sensortec, STMicroelectronics, InvenSense, Murata, ADI, Xdk Microsystem, MiraMEMS, SWT Inc, Senodia, Silan, etc.

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

Market Segmentation

AI Glasses IMU 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

6-Axis

9-Axis

10-Axis and Above

Market segment by Features

Normal Posture

AI Enhancement

High Refresh Rate

Ultra-Low Power Consumption

Market segment by Integration Level

Bare Die

System-in-Package

Modularization

Market segment by Application

High-End AI Glasses

Mid-Range AI Glasses

Entry-Level AI Glasses

Major players covered

Bosch Sensortec

STMicroelectronics

InvenSense

Murata

ADI

Xdlk Microsystem

MiraMEMS

SWT Inc

Senodia

Silan

Memsic

TDK InvenSense

Analog Devices

Murata Manufacturing

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 Glasses IMU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Glasses IMU, with price, sales quantity, revenue, and global market share of AI Glasses IMU from 2021 to 2026.

Chapter 3, the AI Glasses IMU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Glasses IMU 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 AI Glasses IMU 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 AI Glasses IMU.

Chapter 14 and 15, to describe AI Glasses IMU sales channel, distributors, customers, research findings and conclusion.

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