

High-End Accelerometer Market Report by Type (Piezoelectric, Piezo-Resistance, Capacitive), Axis Type (One Axis, Two Axis, Three Axis), Application (Automotive Applications, Tactical Applications, Navigational Applications, Industrial Application), and Region 2024-2032

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Abstracts

The global high-end accelerometer market size reached US\$ 262.3 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 396.9 Million by 2032, exhibiting a growth rate (CAGR) of 4.62% during 2024-2032.

High-end accelerometers are electromechanical devices used in industrial settings to measure the linear acceleration, tilt, vibration, and shock impact of systems. They can also be used for inclination measurement and motion detection, such as free-fall, wakeup, inactivity, double-tap recognition, and four-dimensional (4D) orientation. They generally communicate data over an analog, digital, or pulse-width modulated connection interface. At present, several manufacturers are introducing an extensive range of high-end accelerometers to meet performance requirements for applications in avionics, surface, and marine navigation.

High-End Accelerometer Market Trends:

High-end accelerometers have advanced power-saving features, which make them ideal for handheld portable electronics, such as mobile phones and personal digital assistants (PDAs), wherein low power consumption and the reduced package size are required. Therefore, the emerging trend of miniaturized consumer electronics represents one of the significant factors contributing to the market growth. Apart from this, the increasing adoption of Internet of Things (IoT) inclinometers and wireless

sensor networks in industrial applications is bolstering the market growth. Moreover, high-end accelerometers are incorporated in condition-based monitoring (CBM) systems that assist in detecting leaks, cavitation, and flow in the oil and gas industry. This, in confluence with the rising need for energy exploration facilities, is driving the use of CBM systems and these accelerometers in the management of pressure vessels, storage tanks, pipelines, and piping. Furthermore, the widespread adoption of wearable devices among professional sportspeople and recreational fitness enthusiasts is creating a positive market outlook. Besides this, the application of high-end accelerometers is anticipated to expand in aerospace inertial navigation, guidance, and control and in the healthcare industry for asset monitoring and vital sign monitoring (VSM) across the globe.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global high-end accelerometer market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, axis type and application.

Breakup by Type:

- Piezoelectric
- Piezo-Resistance
- Capacitive

Breakup by Axis Type:

- One Axis
- Two Axis
- Three Axis

Breakup by Application:

- Automotive Applications
- Tactical Applications
- Navigational Applications
- Industrial Application

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Analog Devices Inc., Honeywell International Inc., InnaLabs Limited, MEMSIC Inc., Robert Bosch GmbH, Safran S.A., STMicroelectronics, TDK Corporation and TE Connectivity.

Key Questions Answered in This Report

1. How big is the global high-end accelerometer market?
2. What is the expected growth rate of the global high-end accelerometer market during 2024-2032?
3. What are the key factors driving the global high-end accelerometer market?
4. What has been the impact of COVID-19 on the global high-end accelerometer market?
5. What is the breakup of the global high-end accelerometer market based on the type?

6. What is the breakup of the global high-end accelerometer market based on the axis type?
7. What is the breakup of the global high-end accelerometer market based on application?
8. What are the key regions in the global high-end accelerometer market?
9. Who are the key players/companies in the global high-end accelerometer market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL HIGH-END ACCELEROMETER MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Piezoelectric
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Piezo-Resistance
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Capacitive

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY AXIS TYPE

7.1 One Axis

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Two Axis

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Three Axis

7.3.1 Market Trends

7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Automotive Applications

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Tactical Applications

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Navigational Applications

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Industrial Application

8.4.1 Market Trends

8.4.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

9.3.2.1 Market Trends

9.3.2.2 Market Forecast

9.3.3 United Kingdom

9.3.3.1 Market Trends

9.3.3.2 Market Forecast

9.3.4 Italy

9.3.4.1 Market Trends

9.3.4.2 Market Forecast

9.3.5 Spain

9.3.5.1 Market Trends

9.3.5.2 Market Forecast

9.3.6 Russia

- 9.3.6.1 Market Trends
- 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Analog Devices Inc.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Honeywell International Inc.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.3 InnaLabs Limited

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.4 MEMSIC Inc.

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.5 Robert Bosch GmbH

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.5.3 SWOT Analysis

14.3.6 Safran S.A.

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 STMicroelectronics

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.8 TDK Corporation

14.3.8.1 Company Overview

14.3.8.2 Product Portfolio

14.3.8.3 Financials

14.3.8.4 SWOT Analysis

14.3.9 TE Connectivity

14.3.9.1 Company Overview

14.3.9.2 Product Portfolio

14.3.9.3 Financials

14.3.9.4 SWOT Analysis

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