

# Sensor Fusion Market Report by Type (Radar Sensors, Image Sensors, IMU, Temperature Sensor, and Others), Technology (MEMS, Non-MEMS), Industry Vertical (Automotive, Healthcare, Consumer Electronics, Military and Defense, and Others), and Region 2024-2032

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## Abstracts

The global sensor fusion market size reached US\$ 6.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 26.1 Billion by 2032, exhibiting a growth rate (CAGR) of 16.4% during 2024-2032.

Sensor fusion refers to a technology used in automobiles to provide a reliable, interactive, and combined representation of the environment around a vehicle by merging inputs from multiple radars, lidars, and cameras. It can also correlate data collected from inside the cabin using software algorithms to create a comprehensive, accurate, and unified model with less uncertainty. It assists in reducing latency, improving the driving experience, enhancing the lane and detection performance. As a result, it is widely utilized in detection devices to generate integrated sensory information with multilateral and high-level recognition mechanisms.

### Sensor Fusion Market Trends:

The rising trend of self-driving or driverless cars represents one of the key factors augmenting the use of sensor fusion to enable advanced driver assistance (ADAS) features and automated driving functions. Additionally, road safety authorities across the globe are undertaking several initiatives to minimize fatal road accidents, which, in turn, is contributing to the market growth. Apart from this, sensor fusion is utilized in navigation-based applications for combining global positioning systems (GPS) with

phone data, including compass, gyroscope, and accelerometer. This, in confluence with the escalating demand for mobile mapping technology, is influencing the market positively. Moreover, the growing adoption of Internet of Things (IoT) devices, which comprise sensors to share and aggregate data, in smart water meters and indoor temperature monitoring systems is catalyzing the demand for sensor fusion worldwide. Furthermore, the increasing focus on health and fitness is driving the adoption of sensor fusion technology in wearable fitness devices. Besides this, market players are introducing software solutions that enhance user experience in enhanced intuitive high-speed gaming. This software can also be used in further applications, such as industrial control, oil exploration, and climate monitoring, which is creating a positive market outlook.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global sensor fusion market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, technology and industry vertical.

#### Breakup by Type:

- Radar Sensors
- Image Sensors
- IMU
- Temperature Sensor
- Others

#### Breakup by Technology:

- MEMS
- Non-MEMS

#### Breakup by Industry Vertical:

- Automotive
- Healthcare
- Consumer Electronics
- Military and Defense
- Others

## 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., BASELABS, Bosch Sensortec GmbH (Robert Bosch GmbH), Continental AG, Infineon Technologies AG, InvenSense Inc. (TDK Corporation), Kionix Inc. (ROHM Co. Ltd.), Leddartech Inc., Microchip Technology Inc., NXP Semiconductors N.V., Renesas Electronics Corporation, STMicroelectronics and TE Connectivity Ltd.

## Key Questions Answered in This Report:

How has the global sensor fusion market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global sensor fusion market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the industry vertical?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global sensor fusion market and who are the key players?

What is the degree of competition in the industry?

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