

Smartphone Sensors Market to reach 367.94 billion by 2032, at a CAGR of 17.9% | Report by SNS Insider

"The expansion of the smartphone sensors market is being propelled by enhanced smartphone sensors that cater to consumer demands and industry progress."

AUSTIN, TX, UNITED STATES, January 6, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

According to the SNS Insider Report, "The [Smartphone Sensors Market Size](#) was valued at USD 83.59

billion in 2023 and is expected to reach USD 367.94 billion by 2032 and grow at a CAGR of 17.9% over the forecast period 2024-2032."

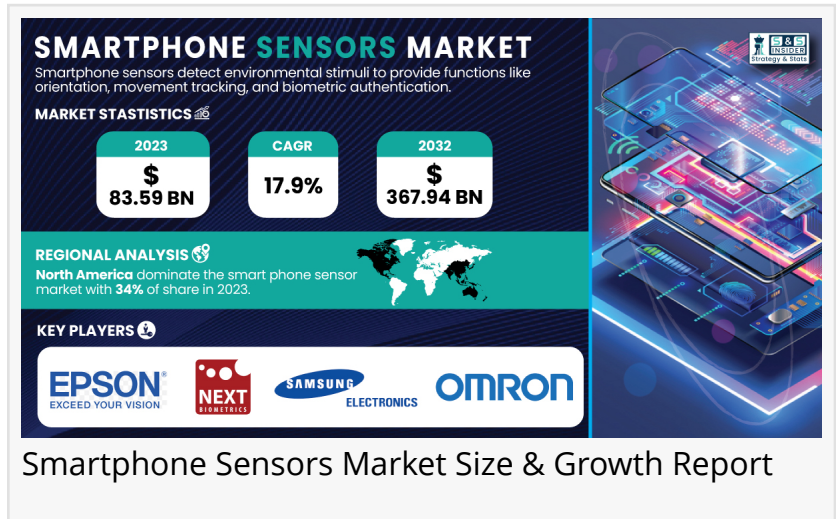
Phone sensors are boosting the AI-based agricultural revolution.

The rapid adoption of AI technology in US farming is driving up demand for advanced smartphone sensors. Farmers depend on sensors for important activities such as monitoring crop health, detecting pests, enhancing irrigation, and predicting yields. The growth potential for the smartphone sensor industry is substantial due to the increasing use of AI in agriculture and the rising global demand for food. The possible impacts of AI on American farms may have far-reaching implications for worldwide agriculture, as climate change poses significant risks to crop production.

Get a Sample PDF of Smartphone Sensors Market (with Full TOC & Graphs) @ <https://www.snsinsider.com/sample-request/2517>

SWOT Analysis of Key Players as follows:

- Epson Europe Electronics
- DYNA IMAGE Corporation
- NEXT Biometrics



Smartphone Sensors Market Size & Growth Report

- Samsung Electronics
- Panasonic Corporation
- Everlight Electronics
- Maxim Integrated
- Omron Corporation
- Sony Corporation
- STMicroelectronics

The growth of smartphone sensor market is propelled by cybersecurity.

The rise of IoT devices, particularly in mobile technology and automotive sectors, has led to significant expansion in the smartphone sensor market. The rise in Internet of Things has led to a higher demand for advanced sensors like biometric, environmental, and motion sensors, essential for the operation and safety of connected devices. The growing emphasis on cybersecurity and consumer protection measures, such as the U.S. Cyber Trust Mark Labeling Program and the EU's Cyber Resilience Act, is also driving this growth. While encountering challenges with compliance, these rules provide smartphone manufacturers the opportunity to differentiate their products by enhancing security elements. The smartphone sensor market will see growth and innovation as market demands meet regulatory advancements, enhancing its role in the IoT ecosystem.

"The Important Role of Image Sensors and High-End Smartphone Technologies in Influencing the 2023 Smartphone Sensor Market"

In 2023, image sensors dominated the smartphone sensor market, taking a significant 29% share, increasing consumer desire for better photo and video features on smartphones, driven by social media and user-created content, has resulted in the image sensors becoming the dominant product in the market. CMOS sensors have become the top choice for smartphone manufacturers due to their excellent performance and affordability. These sensors provide major enhancements in image quality, low-light photography, and energy efficiency. The smartphone sensor market has grown due to the adaptability and significant input of top players such as Sony, Samsung, and Omni Vision.

Based on Application, the High-End Dominate the smart phone sensor market with 42% of share in 2023. These devices come with advanced sensors such as magnetometers, 3D sensing, EIS, and OIS, providing improved features and user experience. Both Apple and Samsung have led the way in incorporating these sensors into their high-end smartphones, with Apple's True Depth camera system allowing for features like Face ID and AR, while Samsung's devices use EIS and OIS for better image stabilization. Sony and STMicroelectronics are also important suppliers providing crucial components for these advanced smartphones. The incorporation of these advanced sensors has played a key role in pushing the development of smartphone technology and has produced substantial profits.

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KEY MARKET SEGMENTS:

By Product Type

- Magnetometer
- Biometric Sensors
- Gyroscope
- Image Sensors
- Accelerometer
- GPS Ambient Light Sensor

By Structure Type

- Standard Smartphones
- Smart watches
- Rugged Smartphones
- Other Wearables

By Application

- High-end
- Mid-range
- Low-end

Market dominance in North America versus rapid growth in the smartphone sensor industry in Asia-Pacific.

In 2023, North America dominated the smartphone sensor market with a 34% market share, driven by its cutting-edge technology and robust demand for premium smartphones. Major companies in the area, such as Apple and Qualcomm, are catalysts for advancing technology and expanding the market.

The Asia-Pacific region is expected to be the fastest-growing area during the forecast period from 2024 to 2032, driven by robust manufacturing capabilities and technological advancements in countries like China, South Korea, and India. The region's strong market presence is fueled by its large consumer base and rising disposable incomes.

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Recent Development

-8 November 2024, Epson Develops Low-Power Oven-Controlled Crystal Oscillator Epson has developed the 'OG7050CAN' oven-controlled crystal oscillator (OCXO), which consumes 56% less

power and is 85% smaller than previous models, making it ideal for next-generation communication infrastructure such as 5G base stations and data centers.

-April 4, 2024 – NEURA Robotics and Omron Robotics and Safety Technologies have formed a strategic partnership to introduce cognitive robotics into manufacturing, combining sensor, AI, and robotics technologies to create adaptable, autonomous robots for complex assembly, quality inspections, and material handling.

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