

Biometric Sensors Market Size to Reach \$3.31 Billion by 2030

global biometric sensors market size was valued at \$1.15 billion in 2020, and is projected to reach \$3.31 billion by 2030, registering a CAGR of 11.8%

WILMINGTON, DE, UNITED STATES, December 2, 2025 /EINPresswire.com/ -- The [biometric sensors market](#) share in Asia-Pacific is expected to witness the highest growth rate during the forecast period, owing to increase in the population and adoption of enhanced technologies in smart infrastructure in developing countries such as India, China, and Indonesia. Also, various product launches and advancements in technologies in the market anticipate huge growth in the Asia-Pacific market.

The North America region is expected to be the leading contributor to the global market during the forecast period, followed by Asia-Pacific and Europe.

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A biometric sensor is an identification and authentication device that uses automated methods of verifying or recognizing the identity of a living person, based on the physical attribute. These attributes include fingerprints, facial images, Iris and voice recognition. Generally, the sensor reads or measures light, temperature, speed, electrical capacity, and other types of energies. Different technologies are applied to get the conversation using sophisticated combinations, networks of sensors and digital cameras.

Many physical characteristics of a person, such as face, iris, fingerprints, are scanned by a biometric sensor and are converted to a digital image using an analog to digital converter. This digital information is stored in a memory and is used to verify or authenticate identity of person.

In the current modernized digital world, security threats are on a rapid rise. The global financial and banking sectors are interconnected via the Internet and the data related to consumers is highly confidential and prone to cyber-attacks. The current security systems implemented by organizations have multiple loopholes and are unsecure against high level cyber-attacks. Further, surge in demand for touchless fingerprint technology drives the biometrics sensors market.

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Prominent factors that impact the biometric sensors market growth include the rise in number of identity threats, emergence of touch less fingerprint technology, and growth in popularity of wearable devices, such as smart watches and smart bands. However, high cost of biometric technology and easy availability of alternative cheap non-biometric technologies restricts the market growth. On the contrary, the growing concerns related to privacy breaches is expected to create lucrative opportunities for the market. Therefore, these factors are expected to definitely affect the biometric sensors industry during the forecast period.

On the basis of region, the biometric sensors market trends are analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, France, UK, Italy, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, Australia, and Rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). North America is dominating the market, due to increase in demand for smart weapons, and most of the smart weapons use biometric sensors technology, which further stimulates the demand for biometric sensors. The overall biometric sensors market analysis is determined to understand the profitable trends to gain a stronger foothold.

Covid-19 Impact Analysis

The COVID-19 pandemic has significantly impacted global economies, resulting in workforce & travel restrictions, supply chain & production disruptions, and reduced demand & spending across many sectors. Sudden decline in infrastructure development is expected to hamper the growth of the market share.

The biometric sensors market revenue witnessed a decline in its growth rate, owing to delayed projects, which led to a substantial impact. Furthermore, market players are investing in R&D of biometric sensors, owing to increase in governmental initiatives globally. Therefore, the biometric sensors market size is anticipated to gain momentum by the end of 2022.

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Key Findings Of Study

In 2020, the voice scan segment accounted for the maximum revenue and is projected to grow at a notable CAGR of 13.9% during the forecast period.

The thermal sensors segment is expected to witness highest growth rate during the forecast period.

Germany was the major shareholder in the Europe biometric sensors market, accounting for approximately 25% share in terms of revenue in 2020.

The key players profiled in the report include CROSSMATCH Technologies Inc., Fujitsu, Fulcrum Biometrics, Thales Group, IDEX ASA, Infineon, NEC Corporation, Precise Biometrics AB, SAFRAN S.A. and ZKTECO Inc. These players have adopted various strategies, such as partnership, agreement, collaboration, and product launch to expand their foothold in the biometric sensors industry.

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