

Biometric Sensor Market by Type (Capacitive Sensors, Optical Sensors, Thermal Sensors, Ultrasound Sensors, and Electric Field Sensors), Application (Voice Scan, Finger Scan, Hand Scan, Facial Scan, Iris Scan, Vein Scan, and Others), and End Users (Consumer Electronics, Commercial Centers & Buildings, Defense & Security, Medical & Research Labs, Banking & Finance Services Sector, and Others) - Global Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

Biometrics can be defined as a statistical analysis of the biological data, that is, analysis of physical and behavioral characteristics. Sensors generally calculate electrical capacity, light, pressure, speed, and temperature. These sensors are compact in design, therefore are installed in devices conveniently. Biometric sensor technology eradicates various security-related issues from different domains. They are specially designed units made to scan and analyze the vein patterns or the unique features of your fingertip. Incorporation of biometric sensors is very common in end user segments such as banking, consumer electronics, commercial center, defense, and research & medical lab. Biometric sensors are applicable in iris scan, finger scan, and proximity technology, and others.

Increase in security threat & privacy concern, rise in demand for smart gadgets with biometrics security, constant development, and government projects are the main drivers which contribute to the growth of the global biometrics sensor market. Moreover, there is a constant downfall in the prices of biometrics sensors, which makes it

affordable. Multiple issues are registered with current security methods such as pin codes or passwords that can be easily hacked, whereas biometric sensor security systems are safer and authentic, thus fueling the adoption of these systems in numerous segments. Factor which limit the growth of the market include high cost of R&D. Graphene-enabled sensors are anticipated to create new opportunities for the market.

By type, biometric sensors are segmented into optical sensors, capacitive sensors, electric field sensors, thermal sensors, and ultrasound sensors. On the basis of application, it is categorized into vein scan, finger scan, facial scan, voice scan, hand scan, iris scan, and others.

Furthermore, based on end user, the market is classified into consumer electronics, commercial centers & buildings, defense & security, medical & research labs, banking & financial services sector, and others. Geographically, this market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key players operating in this market includes 3M (U.S.), Suprema Inc. (South Korea), CrossMatch Technologies, Inc., IDEX ASA (Norway), Infineon Technologies AG (Germany), Fulcrum Biometrics, Safran (France), Precise Biometrics Ab (Sweden), NEC Corporation (Japan), ZKTecoInc (China), and others.

KEY BENEFITS

Comprehensive analysis of the current trends and future estimations are provided.

The report offers a competitive scenario of the market and elucidates on the growth trends, driving factors, scope, opportunities, and challenges.

The report includes a comprehensive analysis of the key segments to provide insights on the market dynamics.

Porter's Five Forces analysis highlights the potential of buyers and suppliers as well as provides insights on the competitive structure of the market to devise effective growth strategies and facilitate better decision-making.

Value chain analysis provides key inputs on the role of stakeholders involved at various stages.

KEY MARKET SEGMENTATION

The market is segmented on the basis of type, application, end users, and geography

BY TYPE

Capacitive Sensors

Ultra Sound Sensors

Optical Sensors

Thermal Sensors

Electric Field Sensors

BY APPLICATION

Voice Scan

Finger Scan

Hand Scan

Facial Scan

Iris Scan

Vein scan

Others

BY END USE

Consumers Electronics

Commercial Centers & Buildings

Medical Research & Lab

Bank & Finance Service Sector

Others

BY GEOGRAPHY

North America

U.S.

Rest of North America

Europe

UK

France

Germany

Rest of Europe

Asia-Pacific

Japan

China

India

Taiwan

South Korea

Rest of Asia-pacific

LAMEA

Latin America

Middle East

Africa

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