

Consumer Electronic Biometrics Market Size, Share & Trends Analysis Report By Technology (Fingerprint Recognition, Facial Recognition), By Device Type, By Security Level, By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Market Size & Trends

The global consumer electronic biometrics market size was estimated at USD 5.61 billion in 2024 and is expected to grow at a CAGR of 21.3% from 2025 to 2030. The widespread integration of biometric technologies such as fingerprint and facial recognition in devices such as smartphones, laptops, and wearables influences this growth.

The widespread integration of biometric technologies such as fingerprint and facial recognition in devices such as smartphones, laptops, and wearables influences this growth. This integration addresses the growing consumer demand for enhanced security and convenient authentication methods, replacing traditional passwords and PINs. In addition, the rising concerns over cyber fraud and identity theft have accelerated the adoption of biometrics in consumer electronics, supported by advancements in biometric sensors and algorithms that improve accuracy and reliability.

Moreover, the market growth is supported by the expanding use of biometrics in Internet of Things (IoT) devices and smart home systems, which require secure and personalized access. Integrating artificial intelligence improves biometric recognition accuracy and reduces errors, increasing user trust. In addition, healthcare, automotive,

and financial services applications broaden the demand for biometric authentication. Increasing consumer awareness about data security and convenience also drives adoption.

Furthermore, the growing emphasis on contactless authentication methods, especially in response to health and hygiene concerns, boosts the use of biometrics in consumer electronics. Enhanced mobile connectivity and cloud computing facilitate real-time biometric data processing and verification, making biometric solutions more efficient and scalable. Partnerships between technology providers and consumer electronics companies accelerate the integration of biometric features in new devices. These factors create a favorable environment for sustained growth in the consumer electronic biometrics market.

Global Consumer Electronic Biometrics Market Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the global consumer electronic biometrics market report based on the technology, device type, security level, application, and region.

Technology Outlook (Revenue, USD Million, 2017 - 2030)

Fingerprint Recognition

Facial Recognition

Iris Recognition

Voice Recognition

Others

Device Type Outlook (Revenue, USD Million, 2017 - 2030)

Smartphones

Laptops

Tablets

Wearables

Others

Security Level Outlook (Revenue, USD Million, 2017 - 2030)

Single-Factor Authentication

Multi-Factor Authentication

Application Outlook (Revenue, USD Million, 2017 - 2030)

Authentication & Access Control

Mobile Payments & Digital Wallets

Device Security & Anti-Theft Measures

Parental Controls & Usage Restrictions

Others

Regional Outlook (Revenue, USD Million, 2017 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

MEA

UAE

South Africa

KSA

Companies Mentioned

Apple Inc.

IDEMIA

Aware, Inc.

Synaptics Incorporated

Qualcomm Technologies, Inc.

Microsoft

Suprema, Inc.

FaceFirst, Inc.

Precise Biometrics AB

HID Global Corporation

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