

Next Generation Biometrics - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Next Generation Biometrics Market is expected to register a CAGR of 17.01% during the forecast period.

One of the key trends witnessed in the next-generation biometrics market is a paradigm shift in business discourse toward more privacy and fewer security threats. The end-users are increasingly looking for integrated solutions rather than depending on conventional methods.

Key Highlights

- The next-generation biometric market is anticipated to grow at a significant growth rate due to the rising number of terrorist activities, coupled with the increasing theft activities on the part of crucial data and information that have raised concerns regarding national security. For instance, in August 2022, Chile is implementing an automatic biometric identification system (ABIS) to combat organized crime. By comparing the biometric records of the civil police (PDI), the civil registry, and Interpol, the system would instantaneously identify recognized criminals, illegal migrants, and the deceased who lack any identity.
- The rising identity fraud across the globe is restricting market growth globally. According to Onfido, Identity fraud rose 43% YoY, with sophisticated fraud increasing 57% as criminals employed smarter tactics, utilizing realistic 2D/3D masks and deploying display attacks (for instance, showing a picture of a person on a screen) to try to spoof verification systems. And with 9 out of 10 consumers comfortable accessing digital services, the opportunities for fraudsters are further increasing.
- The next-generation biometric industry benefits from the increase in electronic cards and biometric passports. Costa Rica, for example, in September 2021, is slated to launch its biometric passport in 2022. The new passport was created using the most advanced security technology to reject fraudulent attempts. It also complies with the demands the International Civil Aviation Organization sets forth. Throughout the projected term, these advances may generate growth opportunities for market development.

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- The COVID-19 outbreak significantly increased demand for touchless biometrics solutions, particularly in the healthcare sector, and created substantial disturbances and adjustments in various industries. Advanced multifactor and multimodal biometrics solutions are becoming increasingly important due to their accuracy and conformance with COVID-19's social separation norms.
- Companies must refrain from using fingerprint, palm print, and hand-key scanners to minimize physical touch and virus transmission. These actions are laying the groundwork for facial identification equipment and user-friendly iris scanning, which will be applied in several contexts. The outbreak brought about a trend toward contactless biometric technologies that assess face, gait, and speech recognition for accurate identification, which benefitted the market growth and is expected to grow over the forecast period.

Next Generation Biometric Market Trends

Banking and Financial Industry to be the Fastest Growing Sector

- Central Banks are rolling out biometric authentication. Bank of America, JP Morgan Chase, and Wells Fargo allow customers to log in to mobile banking via fingerprint authentication. Voice authentication is also deployed in bank call centres to identify customers. Next-generation biometric authentication can improve customer satisfaction by eliminating the need for passwords and increasing the demand for biometrics in the banking sector.
- A Visa poll from May 2022 found that 86% of users are eager to utilize biometrics to verify their identification while making payments. 70% of respondents who used biometrics said it was simpler to use them, and 46% said they were safer than credentials or PINs. Thus, increasing the adoption of biometric security for internet banking and mobile payments is expected to contribute to the market growth due to increasing banking fraud.
- According to IDEMIA, in July 2021, a pioneer in biometric solutions worldwide, the Indian banking industry is now more eager to implement safe and practical biometric technologies in the post-Covid era. IDEMIA is seeking to provide various cutting-edge biometric protection and transaction solutions. These developments in the BFSI sector are expected to propel next generation biometrics market over the coming years.
- Internet finance and digital operations have become increasingly popular over the past few years due to the increased use of digital technology in the BFSI sector. Many banks now use biometric facial recognition to access accounts through ATMs, eliminating the requirement to punch a card. For instance, in May 2022, Mastercard introduced a biometric payment method for physical establishments that relies on face recognition biometrics instead than smartphones, smart cards, or memorized PINs.

Asia-Pacific to Witness a Significant Growth Rate over the Forecast Period

- The market in the region is expected to witness significant growth in emerging economies, estimated to grow steadily over the forecast period. Apart from the consumer electronics and government sectors, the healthcare sector is expected to experience growth in the application of next-generation biometrics in this region.
- The region is expected to grow with innovation advancement and the region's widespread use of biometric devices at an affordable price. Additionally, the next-generation biometrics industry is increasing as the government and several business sectors use this innovation to identify individuals.
- The need for biometric identification technologies is rising among end-users, such as gaming retail, the banking and financial industry, hospitals, etc. This demand is having a substantial impact on the market's expansion nationwide. For instance, in June 2021, in conjunction with IDEX Biometrics, the China Construction Bank (CCB) chose to employ biometric credentials in its digital renminbi initiatives. The institution previously made available an app for digital yuan wallets. Users will not require a smartphone to utilize virtual currency owing to the NFC-enabled biometrics smart card.

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- The rise of the market in the Asia Pacific countries is fuelled by factors including the economic development of developing nations, rising interest in travel, and increased use of IoT devices. For instance, in November 2021, "Mantra Softech" and the administration of Uttar Pradesh reached an agreement to distribute rations using biometrics. Furthermore, in December 2021, the Indian government implemented "Facial Recognition Technology" (FRT) for traveler registration as part of the "DIGI YATRA SCHEME." These recent events are anticipated to accelerate the expansion of the biometric industry in this area.
- In September 2022, as a continuation of its Asia Pacific growth, Incode, the next-generation identity confirmation platform, revealed that it partnered with TOTM Technologies as a distributor to provide identification solutions, Incode Omni, to the Indonesian market. By introducing world-class, safe, and customer-focused biometric solutions from Incode to the area, TOTM Technologies is dedicated to widening the scope of Indonesian businesses. Thus, these developments in the Asia-Pacific region are expected to propel the next-generation biometric market over the forecast period.

Next Generation Biometric Industry Overview

The next-generation biometrics market is highly fragmented due to numerous market players investing in technological innovation aligned with the market need. Moreover, the next-generation biometric market is highly competitive due to the expected demand in the future. Some of the key players in the market are Idemia, Fujitsu Ltd., NEC Corporation, Thales Group, and Siemens AG.

- September 2022: Onfido, the top worldwide digital identity validation, and authentication supplier launched Motion, a cutting-edge liveness solution for biometrics that will improve its Real Identity Platform. Motion is iBeta Level 2 approved and offers smooth, secure, and inclusive consumer verification.
- August 2022: IDEX Biometrics ASA and Realtime AS launched strategic cooperation to create and commercialize the world's inaugural Web3 biometric transaction card with cold storing and digital property wallets, as well as digital identity. In the first half of 2023, the marketplace is predicted to get these all-in-one biometrics payment card that complies with EMV standards.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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