Biometric Recognition

Biometric recognition technology has advanced from fingerprint and voice recognition to palm, face, IRIS, and even vein recognition which is aided by government investments and increasing security concerns in devices



Biometrics is an automated recognition technology used to recognize individuals on their behavioural and biological characteristics and also regulates access to physical space, information, or services

Key Drivers



Stringent security government protocols levied across various sectors to gain access rights to information or physical space

Increasing need of security in smart phones, wearable technology, and other portable devices

Huge investments from the government bodies towards development of security and surveillance infrastructure

Key Challenges



High initial investment cost for installation of Biometric devices and back-end infrastructure

Key Technologies



Fingerprint/Palm

Fingerprint sensors are the fastest and widely deployed technology due to its increasing demand in smartphones, government support for the adoption of fingerprint sensors and use of biometrics in mobile commerce



IRIS

Factors such as uniqueness, stability, and security are driving the demand for iris recognition market. Further, increasing adoption of multi factor authentication services in government organizations, aerospace, and defense is also aiding the market growth

Voice Recognition

Voice recognition development is gaining momentum due to the growing demand of virtual assistants coming with the popularity of Amazon Alexa and Google Assistant

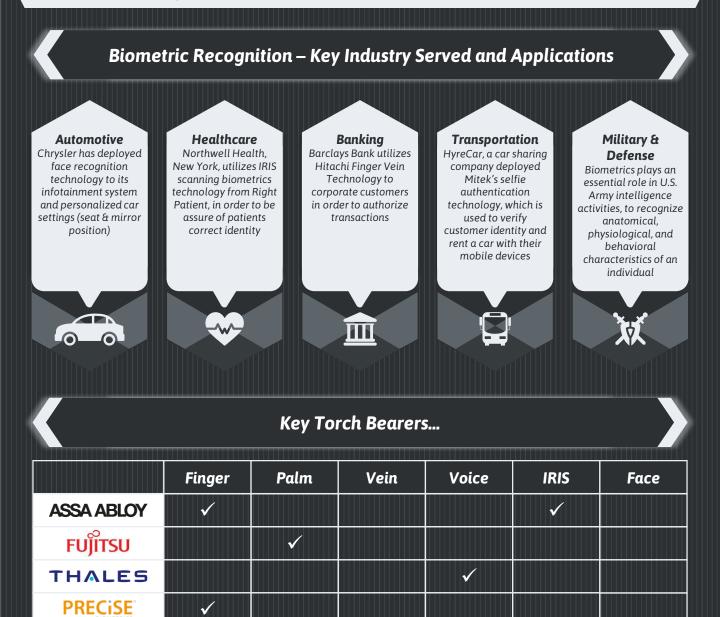
Face Detection

The latest launched iPhone 8 and iPhone X are expected to make the facial recognition technology climb up the growth curve in the coming years

Vein Recognition

Vein recognition biometrics technology, still at nascent stage, relatively more efficient and accurate than the other types of biometric systems and exhibit lower False Acceptance Rate (FAR) and False Rejection Rate (FRR) which is a vital reason behind its increasing adoption in industries such as security, finance, electronics, gaming, and healthcare

Adoption of biometric system in BFSI sector for protected transaction, acceptance of advanced authentication and recognition systems in automobiles & increased concern regarding speedy identification are likely to drive the biometric market across different verticals



KEY INSIGHTS

NEC

CROSSMATCH

In current scenario, facial, iris and fingerprint technologies are widely used across sectors; vein and voice sensor technologies are still at the nascent stage, expected to gain momentum in future.

 \checkmark

 \checkmark

 \checkmark

Going forward, the integration of Artificial Intelligence with Biometric Recognition technology is expected to increase, further enhancing the security and surveillance infrastructure by providing end-users with best possible solutions.



Datamatics Business Solutions Ltd. (DBSL) is a pioneer in providing intelligent Business Process Management (iBPM) services.

Our integrated offerings include; Database Solutions & B2B Marketing, Demand Generation & Sales Acceleration, Business Research, Finance & Accounting Outsourcing, Payroll and Contact Center Services. We leverage emerging technologies like Robotics, Machine Learning and Artificial Intelligence to power human-machine collaboration & enable seamless delivery. As a trusted partner to Fortune 1000 companies; our focus is on driving revenue growth, operational excellence, cost efficiency & customer intimacy for global clients.

We serve customers across the globe and industries like Technology, Banking & Financial Services, Media & Publishing, Events, Manufacturing, Healthcare, Automotive, Retail & CPG, Travel & Logistics and Telecom.

© Datamatics Business Solutions Ltd. All rights reserved. e: marketing@datamaticsbpm.com w: www.datamaticsbpm.com

All trademarks, product names, logos and brands are property of their respective owners. They are used in this document for identification purposes only and does not imply endorsement.