

## **India Biometrics In Physical Access Control Market Forecast 2024-2032**

Market Report | 2024-06-03 | 125 pages | Inkwood Research

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- Single User Price \$1100.00
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### **Report description:**

#### **KEY FINDINGS**

The India biometrics in physical access control market is projected to prosper at a CAGR of 16.78% over the forecast period of 2024-2032. The market is set to reach a revenue of \$340.73 million by 2032.

#### **MARKET INSIGHTS**

The India biometrics in physical access control market is witnessing significant trends and transformations. Fingerprint recognition remains the most commonly used biometric modality, favored for its accuracy, affordability, and ease of use. This widespread adoption is evident across various sectors, including government, finance, and healthcare, where secure access control is critical. Additionally, the COVID-19 pandemic has notably accelerated the shift towards contactless biometric technologies. Concerns over hygiene and the need to minimize physical contact have led to increased adoption of facial recognition, iris scanning, and voice recognition systems. These technologies offer secure, efficient, and touch-free authentication, aligning with the heightened health and safety standards required in the post-pandemic world.

Innovations in integrating biometric sensors into wearable devices are opening up new market opportunities. Wearables equipped with biometric authentication features, such as smartwatches and fitness trackers, provide convenient and secure access control solutions. This integration enhances user convenience and broadens the application of biometric technology beyond traditional settings.

Moreover, many organizations are transitioning from traditional access control methods to hybrid solutions that combine multiple biometric modalities. The need for enhanced security and flexibility fosters this shift. Hybrid systems leverage the strengths of various biometric technologies, offering robust, multi-layered security that can adapt to different scenarios and threats. This trend is particularly evident in sectors with high-security demands, such as banking, defense, and critical infrastructure.

#### **SEGMENTATION ANALYSIS**

The India biometrics in physical access control market segmentation incorporates the market by biometric recognition system and industry. The biometric recognition system segment is further bifurcated into hand-based biometric recognition system, facial-based biometric recognition system, eye-based biometric recognition system, voice-based biometric recognition system, handwritten-based biometric recognition system, and other biometric recognition systems. Among these, hand-based biometric recognition systems include fingerprint, vein, and palmprint recognition technologies.

Fingerprint biometric recognition remains highly popular due to its cost-effectiveness and reliable performance, making it a staple in various sectors, from corporate offices to government facilities. Vein biometric recognition, utilizing patterns of blood vessels,

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offers high accuracy and resistance to forgery, appealing to security-sensitive applications. Palmprint recognition, capturing the unique patterns of the palm, provides another layer of secure access, gaining traction in environments requiring robust security measures.

Simultaneously, facial-based biometric recognition systems are observing prominent adoption. These systems are categorized into 2D and 3D facial recognition and facial biometric analytics. 2D facial biometric recognition uses standard photographic techniques to capture and verify facial features. While widely used due to its simplicity and speed, it can be susceptible to spoofing with photographs. To counter this, 3D facial biometric recognition employs advanced imaging techniques to create a three-dimensional map of the face. This method offers higher accuracy and security by analyzing depth and contours that cannot be easily replicated.

Facial biometric analytics represents an advanced facet of facial recognition technology. Beyond mere identification and verification, this approach involves analyzing facial features to derive additional insights, such as emotional states, age estimation, and even detecting suspicious behavior. This advanced analytical capability is particularly useful in surveillance and security operations, enhancing the ability to monitor and respond to potential threats dynamically.

The need for enhanced security and operational efficiency drives the integration of these biometric recognition systems. Organizations are increasingly looking towards biometric solutions to replace or supplement traditional access control methods, such as keycards or passwords, which are prone to loss, theft, or misuse. The adoption of biometric systems offers a more secure and convenient alternative, ensuring that only authorized individuals gain access to sensitive areas.

#### COMPETITIVE INSIGHTS

Some of the leading players in the India biometrics in physical access control market include Thales Group, Honeywell International, Identiv Inc, etc.

Thales Group, a French multinational, operates in electronic systems, aerospace, defense, digital identity, ground transportation, and space industries. It specializes in advanced technologies like Big Data, AI, and quantum tech, serving customers globally, including armed forces, airlines, telecom operators, and scientific institutions. With a presence across the Americas, Europe, Asia-Pacific, Middle East, and Africa, Thales has been a leader since its establishment in 1893, headquartered in Paris, France.

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