

Asia Pacific AI-Enabled Biometric Market Size, Share, Trends & Analysis by Technology (Face Recognition, Fingerprint Recognition, Iris Recognition, Voice Recognition, Behavioral Biometrics), by Application (Mobile Biometrics and Smart Devices, Biometric Access Control Systems, Identity Verification and Authentication, Surveillance and Security, Others), by End User (Defense, Home Security, Government, BFSI, Healthcare, Others) and Region, with Forecasts from 2024 to 2034.

<https://marketpublishers.com/r/A6824F71C19DEN.html>

Date: November 2024

Pages: 178

Price: US\$ 3,285.00 (Single User License)

ID: A6824F71C19DEN

Abstracts

Market Overview

The Asia Pacific AI-Enabled Biometric Market is set to experience robust growth from 2024 to 2034, driven by the increasing adoption of artificial intelligence (AI) technologies in biometric systems to enhance security, identity verification, and surveillance. The market is projected to reach USD XX.XX billion by 2034, growing at a compound annual growth rate (CAGR) of XX.XX% from USD XXX.XX billion in 2024. As businesses and governments focus on improving security infrastructure and adopting contactless technologies, AI-driven biometric solutions are emerging as a critical tool for identifying individuals and ensuring safety.

Key growth drivers include:

Rising Demand for Enhanced Security: The increasing need for advanced

security measures in sectors such as BFSI, healthcare, and government is driving the adoption of AI-enabled biometric systems to prevent fraud and unauthorized access.

Technological Advancements: The integration of AI with biometric technologies like face recognition, fingerprint scanning, iris recognition, and behavioral biometrics is advancing the accuracy, speed, and versatility of these systems.

Government Regulations and Initiatives: Governments across the Asia Pacific region are implementing stricter security protocols and regulations, which are promoting the adoption of biometric systems for identity verification and surveillance.

Definition and Scope of AI-Enabled Biometric Solutions

AI-enabled biometrics refers to the use of advanced AI technologies, such as machine learning and neural networks, to improve the accuracy, speed, and adaptability of biometric recognition systems. These systems are designed to analyze and identify individuals based on unique physiological and behavioral traits, including face, fingerprints, iris, voice, and behavior patterns. The market is segmented by technology (face recognition, fingerprint recognition, iris recognition, voice recognition, behavioral biometrics), application (mobile biometrics and smart devices, biometric access control systems, identity verification and authentication, surveillance and security, others), and end user (defense, home security, government, BFSI, healthcare, others).

Market Drivers

Security and Fraud Prevention: AI-enabled biometric systems are increasingly being used to enhance security, prevent fraud, and provide seamless user authentication, especially in sectors like banking, healthcare, and government services.

Rising Use of Mobile and Smart Devices: The proliferation of mobile phones and smart devices integrated with biometric authentication features, such as face and fingerprint recognition, is fueling the demand for AI-driven biometric solutions.

AI-Driven Innovation: The convergence of AI and biometrics enables

sophisticated algorithms for identity verification, real-time monitoring, and predictive analytics, making biometric systems more reliable and user-friendly.

Market Restraints

Privacy Concerns: The use of biometric data, particularly for surveillance and identification, raises significant concerns over data privacy and security, which could impact market growth and consumer trust.

High Implementation Costs: The initial costs of deploying AI-enabled biometric systems, including software development, hardware installation, and training, can be a barrier for smaller enterprises and organizations.

Opportunities

Increasing Need for Seamless Authentication: With the growing need for contactless authentication, AI-enabled biometric systems present an opportunity to improve user experiences across mobile devices, banking transactions, and digital platforms.

Smart City Initiatives: Government investments in smart city infrastructure provide opportunities for integrating AI biometrics in urban security, public safety, and access control systems.

Healthcare and BFSI Growth: The healthcare sector's growing reliance on biometric authentication for patient identification and the BFSI sector's need for secure, fraud-resistant systems are key drivers of market expansion.

Market Segmentation Analysis

By Technology

Face Recognition

Fingerprint Recognition

Iris Recognition

Voice Recognition

Behavioral Biometrics

By Application

Mobile Biometrics and Smart Devices

Biometric Access Control Systems

Identity Verification and Authentication

Surveillance and Security

Others

By End User

Defense

Home Security

Government

BFSI

Healthcare

Others

Regional Analysis

The Asia Pacific AI-Enabled Biometric Market is experiencing rapid growth across various regions:

China: As a leader in technology adoption and a major player in AI development,

China is driving the widespread use of AI-based biometric solutions, particularly in surveillance and security applications.

India: India's expanding digital infrastructure and growing adoption of biometrics for government services, banking, and identity verification are significantly contributing to market growth.

Japan: Japan, with its advanced technological landscape, is at the forefront of integrating AI in biometric systems, especially in mobile devices, smart access control, and healthcare applications.

Southeast Asia: Countries such as Singapore, Indonesia, and Malaysia are embracing AI-enabled biometrics for applications in public safety, transportation, and finance, offering strong growth potential.

Australia: Australia's high demand for secure access control and identity verification solutions, particularly in defense and finance sectors, is driving the market for AI-enabled biometrics.

The Asia Pacific AI-enabled biometric market is expected to grow at a rapid pace due to advancements in AI, increasing demand for secure and efficient identification methods, and supportive government initiatives. While challenges related to privacy and implementation costs persist, the market presents significant growth opportunities, particularly in mobile biometrics, smart city projects, and industries like BFSI and healthcare.

Competitive Landscape

Key players in the Asia Pacific AI-Enabled Biometric market include:

NEC Corporation

Huawei Technologies Co., Ltd.

IDEMIA

Thales Group

Suprema Inc.

ZKTeco

Gemalto (now part of Thales)

Cognitec Systems GmbH

FaceFirst

BioID AG

Contents

1. INTRODUCTION

- 1.1. Definition of AI-Enabled Biometrics
- 1.2. Scope of the Report
- 1.3. Research Methodology

2. EXECUTIVE SUMMARY

- 2.1. Key Findings
- 2.2. Market Snapshot
- 2.3. Key Trends

3. MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Growing Demand for Enhanced Security and Authentication
 - 3.1.2. Advances in AI and Machine Learning Technologies
 - 3.1.3. Increasing Adoption of Biometric Solutions Across Industries
 - 3.1.4. Government Regulations and Support for Biometric Security
- 3.2. Market Restraints
 - 3.2.1. Privacy and Ethical Concerns
 - 3.2.2. High Implementation Costs
 - 3.2.3. Lack of Standardization
 - 3.2.4. Other Market Restraints
- 3.3. Market Opportunities
 - 3.3.1. Integration of AI with IoT for Enhanced Biometric Solutions
 - 3.3.2. Rising Demand for Mobile Biometrics and Smart Devices
 - 3.3.3. Expanding Applications in Healthcare and BFSI Sectors
 - 3.3.4. Other Market Opportunities

4. ASIA PACIFIC AI-ENABLED BIOMETRIC MARKET ANALYSIS

- 4.1. Market Size and Forecast (2024-2034)
- 4.2. Market Share Analysis by:
 - 4.2.1. Technology
 - 4.2.1.1. Face Recognition
 - 4.2.1.2. Fingerprint Recognition

- 4.2.1.3. Iris Recognition
- 4.2.1.4. Voice Recognition
- 4.2.1.5. Behavioral Biometrics
- 4.2.2. Application
 - 4.2.2.1. Mobile Biometrics and Smart Devices
 - 4.2.2.2. Biometric Access Control Systems
 - 4.2.2.3. Identity Verification and Authentication
 - 4.2.2.4. Surveillance and Security
 - 4.2.2.5. Others
- 4.2.3. End User
 - 4.2.3.1. Defense
 - 4.2.3.2. Home Security
 - 4.2.3.3. Government
 - 4.2.3.4. BFSI (Banking, Financial Services, and Insurance)
 - 4.2.3.5. Healthcare
 - 4.2.3.6. Others
- 4.3. Value Chain Analysis
- 4.4. SWOT Analysis
- 4.5. Porter's Five Forces Analysis

5. REGIONAL MARKET ANALYSIS

- 5.1. China
 - 5.1.1. Market Overview
 - 5.1.2. Market Size and Forecast
 - 5.1.3. Key Trends
 - 5.1.4. Competitive Landscape
- 5.2. India
 - 5.2.1. Market Overview
 - 5.2.2. Market Size and Forecast
 - 5.2.3. Key Trends
 - 5.2.4. Competitive Landscape
- 5.3. Japan
 - 5.3.1. Market Overview
 - 5.3.2. Market Size and Forecast
 - 5.3.3. Key Trends
 - 5.3.4. Competitive Landscape
- 5.4. South Korea
 - 5.4.1. Market Overview

- 5.4.2. Market Size and Forecast
- 5.4.3. Key Trends
- 5.4.4. Competitive Landscape
- 5.5. Australia
 - 5.5.1. Market Overview
 - 5.5.2. Market Size and Forecast
 - 5.5.3. Key Trends
 - 5.5.4. Competitive Landscape
- 5.6. Rest of Asia Pacific
 - 5.6.1. Market Overview
 - 5.6.2. Market Size and Forecast
 - 5.6.3. Key Trends
 - 5.6.4. Competitive Landscape

6. COMPETITIVE LANDSCAPE

- 6.1. Market Share Analysis of Key Players
- 6.2. Company Profiles of Key Players
 - 6.2.1. NEC Corporation
 - 6.2.2. Huawei Technologies Co., Ltd.
 - 6.2.3. IDEMIA
 - 6.2.4. Thales Group
 - 6.2.5. Suprema Inc.
 - 6.2.6. ZKTeco
 - 6.2.7. Gemalto (now part of Thales)
 - 6.2.8. Cognitec Systems GmbH
 - 6.2.9. FaceFirst
 - 6.2.10. BioID AG
- 6.3. Recent Developments and Innovations
- 6.4. Strategic Initiatives

7. FUTURE OUTLOOK AND MARKET FORECAST

- 7.1. Market Growth Prospects
- 7.2. Technological Trends and Innovations
- 7.3. Investment Opportunities
- 7.4. Strategic Recommendations

8. KEY INSIGHTS AND REITERATION OF MAIN FINDINGS

9. FUTURE PROSPECTS FOR THE ASIA PACIFIC AI-ENABLED BIOMETRIC MARKET

I would like to order

Product name: Asia Pacific AI-Enabled Biometric Market Size, Share, Trends & Analysis by Technology (Face Recognition, Fingerprint Recognition, Iris Recognition, Voice Recognition, Behavioral Biometrics), by Application (Mobile Biometrics and Smart Devices, Biometric Access Control Systems, Identity Verification and Authentication, Surveillance and Security, Others), by End User (Defense, Home Security, Government, BFSI, Healthcare, Others) and Region, with Forecasts from 2024 to 2034.

Product link: <https://marketpublishers.com/r/A6824F71C19DEN.html>

Price: US\$ 3,285.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A6824F71C19DEN.html>