

South Korea Facial Recognition Market Size, Share, Trends and Forecast by Component, Technology, Application, End Use Industry, and Region, 2026-2034

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Abstracts

The South Korea facial recognition market size reached USD 189.6 Million in 2025. The market is projected to reach USD 824.2 Million by 2034, exhibiting a growth rate (CAGR) of 17.21% during 2026-2034. The market is seeing significant growth due to widespread adoption in markets like security, retail, and banking. Improvements in AI and machine learning technologies are raising system accuracy and efficiency, leading to increased adoption. As applications grow for both public and private domains, stakeholders are concerned with innovation and integration to stay ahead in the changing dynamics of the South Korea facial recognition market share.

SOUTH KOREA FACIAL RECOGNITION MARKET TRENDS:

Enhanced AI-Driven Surveillance in Public Transit Systems

In February 2025, Seoul Metro significantly upgraded its security infrastructure by deploying more than 20,000 surveillance cameras equipped with AI analytics across 276 stations, protecting nearly 7 million daily passengers. The system integrates facial recognition technology with 3D mapping and IoT sensors to enable real-time monitoring and faster emergency response. This AI-powered approach has led to a notable reduction in incident response times, improving passenger safety and operational efficiency. By combining video analytics and digital twin technology, Seoul Metro can better manage crowds and detect anomalies promptly. The system also respects privacy through secure data management protocols. This large-scale adoption of biometric authentication in public transportation reflects South Korea's commitment to modernizing infrastructure through smart technologies. These advancements serve as key drivers in the South Korea facial recognition market trends, demonstrating how

government-led innovation in urban transit is accelerating the adoption of facial recognition solutions and shaping the broader biometric technology landscape.

Expansion into Retail and Finance

The expansion of facial recognition payment solutions in South Korea indicates market growth as these systems transition from surveillance to mainstream consumer use. In February 2025, the major convenience store chains CU, GS25, and 7-Eleven piloted "FacePay," a Toss-powered facial payment service that registers users' faces in the Toss app and enables touchless checkout by scanning their face at terminals. With authentication accuracy of 99.99% and response time of under one second, this deployment highlights both consumer convenience and technological maturity. As trials extend into cinemas, cafes, ATMs, and kiosks, more interaction points are adopting biometric verification. The move demonstrates deepening consumer acceptance and willingness to trade conventional methods for speed and hygiene. Financial institutions and retailers are leveraging this momentum to embed facial recognition in user-facing services, creating a seamless biometric ecosystem. The rapid deployment in retail exemplifies how South Korea is integrating identity authentication into everyday transactions. Analysts suggest that as infrastructure scales and regulatory frameworks evolve, more sectors will incorporate this form of biometric authentication, reinforcing steady South Korea facial recognition market growth.

Government Support and Smart City Integration

Government initiatives are playing a crucial role in advancing facial recognition technology in South Korea by fostering innovation and regulatory frameworks that support its safe deployment. In September 2024, the National Artificial Intelligence Committee was formed to oversee AI and biometric strategies across industries, ensuring coordinated policy development and responsible technology use. This committee's efforts align with the country's smart city projects, which integrate facial recognition into public infrastructure, including airports and transit systems. A notable example is Incheon International Airport, where automated boarding and immigration processes use facial recognition to speed up passenger flow and enhance security. In parallel, investments in AI semiconductors and edge computing hardware have strengthened the technical ecosystem. This comprehensive approach, combining regulatory oversight, public deployment, and infrastructure enhancement positions South Korea as a front-runner in biometric innovation, balancing technological advancement with privacy and security considerations. These coordinated actions support sustainable, long-term adoption of facial recognition solutions across various

sectors.

SOUTH KOREA FACIAL RECOGNITION MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for ?2026-2034?. Our report has categorized the market based on component, technology, application, and end use industry.

Component Insights:

Software

Services

The report has provided a detailed breakup and analysis of the market based on the component. This includes software and services.

Technology Insights:

2D Facial Recognition

3D Facial Recognition

Facial Analytics

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes 2D facial recognition, 3D facial recognition, and facial analytics.

Application Insights:

Emotion Recognition

Attendance Tracking and Monitoring

Access Control

Security and Surveillance

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes emotion recognition, attendance tracking and monitoring, access control, security and surveillance, and others.

End Use Industry Insights:

Retail and E-commerce

BFSI

Government and Defense

Automotive and Transportation

Media and Entertainment

Healthcare

Telecom and IT

Others

A detailed breakup and analysis of the market based on the end use industry have also been provided in the report. This includes retail and e-commerce, BFSI, government and defense, automotive and transportation, media and entertainment, healthcare, telecom and IT, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include the Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea Facial Recognition market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea Facial Recognition market on the basis of component?

What is the breakup of the South Korea Facial Recognition market on the basis of technology?

What is the breakup of the South Korea Facial Recognition market on the basis of application?

What is the breakup of the South Korea Facial Recognition market on the basis of end use industry?

What is the breakup of the South Korea Facial Recognition market on the basis of region?

What are the various stages in the value chain of the South Korea Facial Recognition market?

What are the key driving factors and challenges in the South Korea Facial Recognition?

What is the structure of the South Korea Facial Recognition market and who are the key players?

What is the degree of competition in the South Korea Facial Recognition market?

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