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# Global 3D Facial Recognition Payment Device Market Growth 2026-2032

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## Abstracts

The global 3D Facial Recognition Payment Device market size is predicted to grow from US$ 5967 million in 2025 to US$ 13730 million in 2032; it is expected to grow at a CAGR of 12.9% from 2026 to 2032.

In 2024, global 3D Facial Recognition Payment Device production reached approximately 15.67 million units, with an average global market price of around US$ 350 per unit. 3D facial recognition payment devices are dedicated terminals integrating a 3D facial recognition module, a payment security chip, a touchscreen, and a network module. They are used in scenarios such as supermarkets, convenience stores, restaurants, transportation gates, and unmanned retail to complete identity verification and payment deduction by having users 'stand in front of the device and scan their face.' Unlike traditional payment terminals based on 1D/2D barcodes or bank cards, 3D facial recognition payment devices typically employ depth perception technologies such as structured light, Time-of-Flight (ToF), or binocular stereo vision. These technologies can collect 3D depth information of the face and combine it with 2D texture features to achieve liveness detection, protection against photo/video attacks, and protection against mask fraud. Simultaneously, they integrate a security chip, encryption algorithms, and local/cloud comparison mechanisms, communicating the recognition results through an encrypted channel with payment institutions, banks, or platforms to complete account deductions and transaction records. Typical device forms include desktop computers with 7?15-inch touchscreens, wall-mounted/floor-mounted self-service terminals, and embedded access control/turnstile modules, running Android or embedded Linux systems and connecting to the backend system via Ethernet, Wi-Fi, or 4G/5G. 3D facial recognition payment devices balance 'high security,' 'high efficiency,' and a 'seamless payment' experience, making them a crucial foundational hardware for digital operations and cashless transactions in offline scenarios.

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From an industry chain perspective, 3D facial recognition payment devices occupy the midstream segment of the 'computer vision + payment terminal' chain. The upstream mainly includes 3D sensing module suppliers (structured light projectors, infrared cameras, ToF sensors, etc.), RGB camera and lens modules, processors and AI acceleration chips (application processors, NPUs, MCUs), security chips (SE, TPMs), display modules (LCD/LED touchscreens), chassis structural components (plastic parts, aluminum profiles, steel cabinets), and operating system/algorithm software providers. Typical raw materials and components can come from CMOS image sensor and ToF chip suppliers, infrared laser and optical device companies, storage and RF chip manufacturers, and EMS/ODM manufacturers providing PCBA, injection molding, sheet metal, and complete machine assembly services. The midstream segment consists of brands and solution providers specializing in 'smart payment terminals' and 'face payment all-in-one machines.' They are responsible for the overall industrial design, development of 3D face recognition and liveness detection algorithms, payment security certification integration (such as EMV, PCI, and local standards in various countries), hardware and software integration, and mass production. They also collaborate with payment institutions and SaaS services to deliver complete solutions. Downstream clients primarily include large chain retail and convenience store brands, fast food and coffee chains, shopping malls and chain cinemas, public transportation and subway/bus gate operators, campus and park card system integrators, as well as various unmanned retail, self-service checkout, smart community access control, and smart scenic spot ticketing operators. By deploying 3D face payment devices, they achieve faster customer flow, lower manual checkout costs, and richer user profiles and digital operation capabilities.

From a market trend perspective, 3D facial recognition payment devices occupy a niche market where 'offline digitalization + biometric payment' converges. On one hand, they benefit from the continued increase in mobile payment penetration, the demand for cost reduction and efficiency improvement in offline stores, and the expansion of scenarios such as self-service checkout, unmanned retail, and smart transportation. On the other hand, they are also constrained by privacy protection regulations, changing user privacy preferences, and device upgrade cycles. In the short term, retail, catering, public transportation, and park access control remain the core scenarios for device installation. New store openings, renovations of existing stores, and upgrades to turnstiles and self-service terminals will bring stable incremental demand. Simultaneously, the deep integration of facial recognition payment with membership identification, marketing recommendations, customer flow analysis, and operational management is transforming the device from a 'payment tool' into an 'offline data collection and operation hub,'

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increasing solution stickiness. In the medium term, with the maturation of 3D facial recognition algorithms and liveness detection technology, and the decline in hardware costs, 3D facial recognition payment devices are expected to penetrate more small and medium-sized merchants and niche scenarios. However, in some countries and regions, stricter regulations on facial recognition payment due to privacy and data compliance considerations may slow down its widespread adoption. Overall, the market exhibits a structural growth pattern characterized by 'technology-driven + scenario-driven' growth. Leading vendors are consolidating customer relationships by integrating payment, SaaS, and operational services, and medium- to long-term demand will be highly correlated with the digitalization process of offline commerce.

LP Information, Inc. (LPI) ' newest research report, the ?3D Facial Recognition Payment Device Industry Forecast? looks at past sales and reviews total world 3D Facial Recognition Payment Device sales in 2025, providing a comprehensive analysis by region and market sector of projected 3D Facial Recognition Payment Device sales for 2026 through 2032. With 3D Facial Recognition Payment Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 3D Facial Recognition Payment Device industry.

This Insight Report provides a comprehensive analysis of the global 3D Facial Recognition Payment Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 3D Facial Recognition Payment Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global 3D Facial Recognition Payment Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Facial Recognition Payment Device and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 3D Facial Recognition Payment Device.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Facial Recognition Payment Device market by product type, application, key manufacturers and key regions and countries.

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Segmentation by Type:

Desktop

Floor-standing

Segmentation by Technology:

Structured Light

ToF

Binocular Stereo Vision

Others

Segmentation by Configuration:

With Screen

Without Screen

Segmentation by Application:

Shop

Restaurant

Bank

Others

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Mastercard

PopID

PayByFace

NEC Corporation

Telepower Communications

SnapPay

Orbbec

CloudWalk Technology

Raytron Technology

PAX Global Technology

Telepower Communication

Megvii

Arcsoft

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**Key Questions Addressed in this Report**

What is the 10-year outlook for the global 3D Facial Recognition Payment Device market?

What factors are driving 3D Facial Recognition Payment Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 3D Facial Recognition Payment Device market opportunities vary by end market size?

How does 3D Facial Recognition Payment Device break out by Type, by Application?

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