

Global Under-display Optical Fingerprint Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Under-display Optical Fingerprint Sensor market size was valued at US\$ 2070 million in 2025 and is forecast to a readjusted size of US\$ 3009 million by 2032 with a CAGR of 5.5% during review period.

In 2025, global Under-display Optical Fingerprint Sensor production reached approximately 670.55 M Units. The average price is approximately \$3. An Under-display Optical Fingerprint Sensor is a biometric sensing technology embedded beneath a display (typically OLED) that uses light-based imaging to capture and authenticate a user's fingerprint through the screen.

Gross Margin Levels

Gross margin levels within the under-display optical fingerprint sensor industry exhibit a distinct stratification. For optical fingerprint chips and modules used in standard smartphones?where competition is fierce and handset manufacturers possess strong bargaining power?the comprehensive gross margin typically ranges from 20% to 35%. Leading solution providers?those possessing proprietary algorithms, sensor chips, optical structures, and customer certification capabilities?can achieve gross margins of 35% to 45%. Furthermore, high-end solutions?such as ultra-thin, large-area, high-security-grade, or multi-modal fusion sensors, as well as those designed for automotive or payment terminal applications?can command even higher gross margins of 45% to 55%, driven by longer certification cycles, high degrees of customization, and more stringent reliability requirements. However, the industry is significantly impacted by smartphone market cycles and declining Average Selling Prices (ASPs); consequently,

the gross margins of module manufacturers are typically lower than those of chip solution providers. Fingerprint Cards' 2024 annual report, for instance, revealed a full-year gross margin of 11.3%?or 31.5% after excluding the impact of capitalized R&D amortization?underscoring the substantial volatility in profitability within the fingerprint sensor industry amidst intense price competition and shifts in product mix.

Industry Drivers

Growth in the under-display optical fingerprint sensor industry is primarily driven by rising OLED smartphone penetration rates, the demand for full-screen display designs, the need for enhanced mobile payment security, hardware configuration upgrades in mid-to-high-end Android models, trends toward foldable screens and thinner device profiles, and the expanding application of identity authentication in smart door locks and IoT ecosystems. Compared to traditional side-mounted or rear-mounted fingerprint sensors, under-display optical solutions align more seamlessly with full-screen and integrated aesthetic designs; moreover, being lower in cost than ultrasonic solutions, they are expected to maintain a high penetration rate within the Android smartphone market over the long term. In the future, industry growth will no longer rely solely on smartphone shipment volumes, but will increasingly stem from upgrades in high-end product capabilities?such as ultra-thin modules, large-area recognition, compatibility with low-transmittance screens, recognition with wet fingers or screen protectors, AI-enhanced image processing, and authentication solutions for automotive and payment terminal applications. Overall, industry competition is shifting from a binary question of 'can we successfully implement under-display fingerprint technology?' to a comprehensive contest centered on a multifaceted set of criteria: recognition speed, false acceptance rates, module thickness, power efficiency, robustness in complex environments, and overall integration costs for the host device.

This report is a detailed and comprehensive analysis for global Under-display Optical Fingerprint Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Under-display Optical Fingerprint Sensor market size and forecasts, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Under-display Optical Fingerprint Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Under-display Optical Fingerprint Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Under-display Optical Fingerprint Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Under-display Optical Fingerprint Sensor

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Under-display Optical Fingerprint Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Goodix Technology, GigaDevice, Egis Technology, Synaptics, Fingerprint Cards AB, Chipone Technology, JIIOVTechnology, BOE Technology Group, OFILMGroup, Q Technology Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Under-display Optical Fingerprint Sensor market is split by Type and by Application. For

the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Collimator Type

Microlens Array Type

Short-Focus Lens Type

Others

Market segment by Display Compatibility Type

OLED Under-Display Optical Fingerprint Sensor

Flexible OLED Under-Display Optical Fingerprint Sensor

Rigid OLED Under-Display Optical Fingerprint Sensor

Others

Market segment by Effective Recognition Area

200 mm?: Large-Area Full-Coverage Type

Market segment by Application

Smartphone Industry

Tablet and Laptop Industry

Automotive Electronics Industry

Others

Major players covered

Goodix Technology

GigaDevice

Egis Technology

Synaptics

Fingerprint Cards AB

Chipone Technology

JIIOVTechnology

BOE Technology Group

OFILMGroup

Q Technology Group

Partron

MCNEX

Dreamtech

CrucialTec

Japan Display Inc.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Under-display Optical Fingerprint Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Under-display Optical Fingerprint Sensor, with price, sales quantity, revenue, and global market share of Under-display Optical Fingerprint Sensor from 2021 to 2026.

Chapter 3, the Under-display Optical Fingerprint Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Under-display Optical Fingerprint Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Under-display Optical Fingerprint Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five

Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Under-display Optical Fingerprint Sensor.

Chapter 14 and 15, to describe Under-display Optical Fingerprint Sensor sales channel, distributors, customers, research findings and conclusion.

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