

Global In-display Optical Fingerprint Sensor Market Growth 2026-2032

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Abstracts

The global In-display Optical Fingerprint Sensor market size is predicted to grow from US\$ 743 million in 2025 to US\$ 918 million in 2032; it is expected to grow at a CAGR of 2.9% from 2026 to 2032.

An under-display optical fingerprint sensor is a biometric sensing chip or module installed beneath an OLED or optically transmissive display structure. It typically consists of an optical image sensor, microlens or collimator structure, optical filtering components, readout circuits, security algorithms and module packaging. The sensor captures a two-dimensional fingerprint image by illuminating the finger through the display and detecting reflected light from fingerprint ridges and valleys. The captured image is then processed through enhancement, feature extraction, liveness detection and secure matching. This study focuses on under-display optical fingerprint sensor chips and modules used in smartphones, tablets and selected mobile devices, with emphasis on recognition speed, accuracy, strong-light resistance, dry/wet finger performance, module thickness, power consumption, display compatibility and device integration.

Based on our research, the under-display optical fingerprint sensor industry has shifted from an early adoption story to a mature component market shaped by cost, thickness, recognition reliability and display integration. In the first commercial phase, the main value proposition was enabling biometric authentication after smartphone brands removed front-mounted physical buttons and moved toward full-screen OLED designs. In the current phase, the core competitive variables are no longer simply whether the sensor can work under the display, but whether suppliers can deliver thinner modules, faster unlock speed, stable recognition under strong ambient light, better dry/wet finger performance, lower power consumption, stronger anti-spoofing capability and smooth

integration with flexible OLED display stacks. The product should therefore be understood as a system-level optical sensing solution rather than a standalone image sensor. From the supply side, the market is relatively concentrated and the number of clearly verified suppliers is limited. Goodix and Egis have the strongest current evidence as suppliers of optical in-display or under-display fingerprint solutions, while Synaptics should be treated as a historically important supplier that helped commercialize early optical in-display fingerprint sensors. Fingerprint Cards can be included as an extended core player because it has disclosed optical under-display qualification progress, but its current large-scale commercial position should be verified carefully. Silead, FocalTech and several module or optical-component companies should not be mixed directly into the core supplier list without stronger product-level evidence. This distinction is important because the broader fingerprint ecosystem includes capacitive sensor vendors, module integrators, optical component suppliers, algorithm providers and smartphone OEMs, but only a smaller subset are true under-display optical fingerprint sensor or solution suppliers. From the demand side, smartphones remain the dominant application, especially OLED-based Android devices in the mid-range, premium and selected flagship segments. The market's growth is now less about first-time adoption and more about OLED penetration in mid-range models, Android smartphone replacement cycles, module cost reduction and user-experience improvement. Foldable phones, tablets and other mobile devices can create incremental demand, but they remain secondary compared with conventional bar-type smartphones. At the same time, the addressable market is constrained by three competing authentication routes: side-mounted capacitive fingerprint sensors in cost-sensitive or LCD-based phones, ultrasonic under-display fingerprint sensors in some high-end Android models, and face recognition or 3D sensing in selected premium devices. As a result, optical under-display fingerprint sensors are likely to remain a mainstream Android solution, but not a high-growth component category. From the technology roadmap perspective, the most important upgrade paths are ultra-thin optical modules, collimator-based optical architecture, larger recognition areas, improved signal-to-noise ratio, stronger ambient-light compensation, enhanced liveness detection and better compatibility with flexible OLED and LTPO displays. Large-area or full-screen fingerprint recognition remains attractive from a user-experience perspective, but its cost, power consumption, display-stack complexity and yield challenges limit near-term mass adoption. Meanwhile, ultrasonic fingerprint technology will continue to pressure the high-end segment by offering 3D imaging and better wet-finger performance. Optical solutions, however, still retain clear advantages in cost, supply-chain maturity, module thickness optimization and broad Android OEM adoption, especially in mainstream price bands. Overall, we estimate the global under-display optical fingerprint sensor market at approximately USD 760 million in 2025 and USD 790 million in 2026, with a 2026-2032 CAGR of

around 2.8%. This outlook reflects a mature but still relevant component market rather than a fast-expanding emerging category. Future competition will likely follow a bifurcated pattern: low-cost optical solutions will defend the mainstream Android OLED market, while premium models may increasingly evaluate ultrasonic, large-area optical or multimodal biometric solutions. Supplier differentiation will depend on optical architecture, module thickness, recognition speed, anti-spoofing performance, software tuning, OLED display compatibility and the ability to co-develop solutions with smartphone OEMs and display module partners.

LP Information, Inc. (LPI) ' newest research report, the "In-display Optical Fingerprint Sensor Industry Forecast" looks at past sales and reviews total world In-display Optical Fingerprint Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected In-display Optical Fingerprint Sensor sales for 2026 through 2032. With In-display Optical Fingerprint Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world In-display Optical Fingerprint Sensor industry.

This Insight Report provides a comprehensive analysis of the global In-display Optical Fingerprint Sensor 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 In-display Optical Fingerprint Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global In-display Optical Fingerprint Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for In-display Optical Fingerprint Sensor and breaks down the forecast by Market Positioning, 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 In-display Optical Fingerprint Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of In-display Optical Fingerprint Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Market Positioning:

Low-cost Optical Solution

Balanced Mainstream Solution

Ultra-thin Premium Solution

Large-area Premium Solution

High-security Solution

Customized OEM Solution

Segmentation by Product Form:

Sensor IC

Sensor Module

Ultra-thin Optical Module

Large-area Optical Module

Algorithm-integrated Solution

Segmentation by Business Model:

Sensor Chip Sales

Turnkey Module Solution

Chip + Algorithm Bundle

Co-development with Smartphone OEM

Licensing / IP-supported Model

Segmentation by Application:

Smart Phones

Tablet

Laptop

Wearable / Mobile Devices

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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.

Shenzhen Goodix Technology Co., Ltd.

Egis Technology Inc.

Synaptics Incorporated

Fingerprint Cards AB

Key Questions Addressed in this Report

What is the 10-year outlook for the global In-display Optical Fingerprint Sensor market?

What factors are driving In-display Optical Fingerprint Sensor market growth, globally

and by region?

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

How do In-display Optical Fingerprint Sensor market opportunities vary by end market size?

How does In-display Optical Fingerprint Sensor break out by Market Positioning, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global In-display Optical Fingerprint Sensor Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for In-display Optical Fingerprint Sensor by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for In-display Optical Fingerprint Sensor by Country/Region, 2021, 2025 & 2032
- 2.2 In-display Optical Fingerprint Sensor Segment by Market Positioning
 - 2.2.1 Low-cost Optical Solution
 - 2.2.2 Balanced Mainstream Solution
 - 2.2.3 Ultra-thin Premium Solution
 - 2.2.4 Large-area Premium Solution
 - 2.2.5 High-security Solution
 - 2.2.6 Customized OEM Solution
 - 2.2.7 In-display Optical Fingerprint Sensor Sales by Market Positioning
 - 2.2.7.1 Global In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning (2021-2026)
 - 2.2.7.2 Global In-display Optical Fingerprint Sensor Revenue and Market Share by Market Positioning (2021-2026)
 - 2.2.7.3 Global In-display Optical Fingerprint Sensor Sale Price by Market Positioning (2021-2026)
- 2.3 In-display Optical Fingerprint Sensor Segment by Product Form
 - 2.3.1 Sensor IC
 - 2.3.2 Sensor Module
 - 2.3.3 Ultra-thin Optical Module

- 2.3.4 Large-area Optical Module
- 2.3.5 Algorithm-integrated Solution
- 2.3.6 In-display Optical Fingerprint Sensor Sales by Product Form
 - 2.3.6.1 Global In-display Optical Fingerprint Sensor Sales Market Share by Product Form (2021-2026)
 - 2.3.6.2 Global In-display Optical Fingerprint Sensor Revenue and Market Share by Product Form (2021-2026)
 - 2.3.6.3 Global In-display Optical Fingerprint Sensor Sale Price by Product Form (2021-2026)
- 2.4 In-display Optical Fingerprint Sensor Segment by Business Model
 - 2.4.1 Sensor Chip Sales
 - 2.4.2 Turnkey Module Solution
 - 2.4.3 Chip + Algorithm Bundle
 - 2.4.4 Co-development with Smartphone OEM
 - 2.4.5 Licensing / IP-supported Model
 - 2.4.6 In-display Optical Fingerprint Sensor Sales by Business Model
 - 2.4.6.1 Global In-display Optical Fingerprint Sensor Sales Market Share by Business Model (2021-2026)
 - 2.4.6.2 Global In-display Optical Fingerprint Sensor Revenue and Market Share by Business Model (2021-2026)
 - 2.4.6.3 Global In-display Optical Fingerprint Sensor Sale Price by Business Model (2021-2026)
- 2.5 In-display Optical Fingerprint Sensor Segment by Application
 - 2.5.1 Smart Phones
 - 2.5.2 Tablet
 - 2.5.3 Laptop
 - 2.5.4 Wearable / Mobile Devices
 - 2.5.5 In-display Optical Fingerprint Sensor Sales by Application
 - 2.5.5.1 Global In-display Optical Fingerprint Sensor Sale Market Share by Application (2021-2026)
 - 2.5.5.2 Global In-display Optical Fingerprint Sensor Revenue and Market Share by Application (2021-2026)
 - 2.5.5.3 Global In-display Optical Fingerprint Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global In-display Optical Fingerprint Sensor Breakdown Data by Company
 - 3.1.1 Global In-display Optical Fingerprint Sensor Annual Sales by Company

(2021-2026)

3.1.2 Global In-display Optical Fingerprint Sensor Sales Market Share by Company

(2021-2026)

3.2 Global In-display Optical Fingerprint Sensor Annual Revenue by Company

(2021-2026)

3.2.1 Global In-display Optical Fingerprint Sensor Revenue by Company (2021-2026)

3.2.2 Global In-display Optical Fingerprint Sensor Revenue Market Share by Company

(2021-2026)

3.3 Global In-display Optical Fingerprint Sensor Sale Price by Company

3.4 Key Manufacturers In-display Optical Fingerprint Sensor Producing Area

Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers In-display Optical Fingerprint Sensor Product Location

Distribution

3.4.2 Players In-display Optical Fingerprint Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR IN-DISPLAY OPTICAL FINGERPRINT SENSOR BY GEOGRAPHIC REGION

4.1 World Historic In-display Optical Fingerprint Sensor Market Size by Geographic Region (2021-2026)

4.1.1 Global In-display Optical Fingerprint Sensor Annual Sales by Geographic Region (2021-2026)

4.1.2 Global In-display Optical Fingerprint Sensor Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic In-display Optical Fingerprint Sensor Market Size by Country/Region (2021-2026)

4.2.1 Global In-display Optical Fingerprint Sensor Annual Sales by Country/Region (2021-2026)

4.2.2 Global In-display Optical Fingerprint Sensor Annual Revenue by Country/Region (2021-2026)

4.3 Americas In-display Optical Fingerprint Sensor Sales Growth

4.4 APAC In-display Optical Fingerprint Sensor Sales Growth

4.5 Europe In-display Optical Fingerprint Sensor Sales Growth

4.6 Middle East & Africa In-display Optical Fingerprint Sensor Sales Growth

5 AMERICAS

5.1 Americas In-display Optical Fingerprint Sensor Sales by Country

5.1.1 Americas In-display Optical Fingerprint Sensor Sales by Country (2021-2026)

5.1.2 Americas In-display Optical Fingerprint Sensor Revenue by Country (2021-2026)

5.2 Americas In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026)

5.3 Americas In-display Optical Fingerprint Sensor Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC In-display Optical Fingerprint Sensor Sales by Region

6.1.1 APAC In-display Optical Fingerprint Sensor Sales by Region (2021-2026)

6.1.2 APAC In-display Optical Fingerprint Sensor Revenue by Region (2021-2026)

6.2 APAC In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026)

6.3 APAC In-display Optical Fingerprint Sensor Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe In-display Optical Fingerprint Sensor by Country

7.1.1 Europe In-display Optical Fingerprint Sensor Sales by Country (2021-2026)

7.1.2 Europe In-display Optical Fingerprint Sensor Revenue by Country (2021-2026)

7.2 Europe In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026)

7.3 Europe In-display Optical Fingerprint Sensor Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa In-display Optical Fingerprint Sensor by Country

8.1.1 Middle East & Africa In-display Optical Fingerprint Sensor Sales by Country
(2021-2026)

8.1.2 Middle East & Africa In-display Optical Fingerprint Sensor Revenue by Country
(2021-2026)

8.2 Middle East & Africa In-display Optical Fingerprint Sensor Sales by Market
Positioning (2021-2026)

8.3 Middle East & Africa In-display Optical Fingerprint Sensor Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of In-display Optical Fingerprint Sensor

10.3 Manufacturing Process Analysis of In-display Optical Fingerprint Sensor

10.4 Industry Chain Structure of In-display Optical Fingerprint Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

- 11.1.2 Indirect Channels
- 11.2 In-display Optical Fingerprint Sensor Distributors
- 11.3 In-display Optical Fingerprint Sensor Customer

12 WORLD FORECAST REVIEW FOR IN-DISPLAY OPTICAL FINGERPRINT SENSOR BY GEOGRAPHIC REGION

- 12.1 Global In-display Optical Fingerprint Sensor Market Size Forecast by Region
 - 12.1.1 Global In-display Optical Fingerprint Sensor Forecast by Region (2027-2032)
 - 12.1.2 Global In-display Optical Fingerprint Sensor Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global In-display Optical Fingerprint Sensor Forecast by Market Positioning (2027-2032)
- 12.7 Global In-display Optical Fingerprint Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Shenzhen Goodix Technology Co., Ltd.
 - 13.1.1 Shenzhen Goodix Technology Co., Ltd. Company Information
 - 13.1.2 Shenzhen Goodix Technology Co., Ltd. In-display Optical Fingerprint Sensor Product Portfolios and Specifications
 - 13.1.3 Shenzhen Goodix Technology Co., Ltd. In-display Optical Fingerprint Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Shenzhen Goodix Technology Co., Ltd. Main Business Overview
 - 13.1.5 Shenzhen Goodix Technology Co., Ltd. Latest Developments
- 13.2 Egis Technology Inc.
 - 13.2.1 Egis Technology Inc. Company Information
 - 13.2.2 Egis Technology Inc. In-display Optical Fingerprint Sensor Product Portfolios and Specifications
 - 13.2.3 Egis Technology Inc. In-display Optical Fingerprint Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Egis Technology Inc. Main Business Overview
 - 13.2.5 Egis Technology Inc. Latest Developments
- 13.3 Synaptics Incorporated
 - 13.3.1 Synaptics Incorporated Company Information

13.3.2 Synaptics Incorporated In-display Optical Fingerprint Sensor Product Portfolios and Specifications

13.3.3 Synaptics Incorporated In-display Optical Fingerprint Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Synaptics Incorporated Main Business Overview

13.3.5 Synaptics Incorporated Latest Developments

13.4 Fingerprint Cards AB

13.4.1 Fingerprint Cards AB Company Information

13.4.2 Fingerprint Cards AB In-display Optical Fingerprint Sensor Product Portfolios and Specifications

13.4.3 Fingerprint Cards AB In-display Optical Fingerprint Sensor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Fingerprint Cards AB Main Business Overview

13.4.5 Fingerprint Cards AB Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. In-display Optical Fingerprint Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. In-display Optical Fingerprint Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Low-cost Optical Solution

Table 4. Major Players of Balanced Mainstream Solution

Table 5. Major Players of Ultra-thin Premium Solution

Table 6. Major Players of Large-area Premium Solution

Table 7. Major Players of High-security Solution

Table 8. Major Players of Customized OEM Solution

Table 9. Global In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026) & (Units)

Table 10. Global In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning (2021-2026)

Table 11. Global In-display Optical Fingerprint Sensor Revenue by Market Positioning (2021-2026) & (\$ million)

Table 12. Global In-display Optical Fingerprint Sensor Revenue Market Share by Market Positioning (2021-2026)

Table 13. Global In-display Optical Fingerprint Sensor Sale Price by Market Positioning (2021-2026) & (US\$/Unit)

Table 14. Major Players of Sensor IC

Table 15. Major Players of Sensor Module

Table 16. Major Players of Ultra-thin Optical Module

Table 17. Major Players of Large-area Optical Module

Table 18. Major Players of Algorithm-integrated Solution

Table 19. Global In-display Optical Fingerprint Sensor Sales by Product Form (2021-2026) & (Units)

Table 20. Global In-display Optical Fingerprint Sensor Sales Market Share by Product Form (2021-2026)

Table 21. Global In-display Optical Fingerprint Sensor Revenue by Product Form (2021-2026) & (\$ million)

Table 22. Global In-display Optical Fingerprint Sensor Revenue Market Share by Product Form (2021-2026)

Table 23. Global In-display Optical Fingerprint Sensor Sale Price by Product Form (2021-2026) & (US\$/Unit)

Table 24. Major Players of Sensor Chip Sales
Table 25. Major Players of Turnkey Module Solution
Table 26. Major Players of Chip + Algorithm Bundle
Table 27. Major Players of Co-development with Smartphone OEM
Table 28. Major Players of Licensing / IP-supported Model
Table 29. Global In-display Optical Fingerprint Sensor Sales by Business Model (2021-2026) & (Units)
Table 30. Global In-display Optical Fingerprint Sensor Sales Market Share by Business Model (2021-2026)
Table 31. Global In-display Optical Fingerprint Sensor Revenue by Business Model (2021-2026) & (\$ million)
Table 32. Global In-display Optical Fingerprint Sensor Revenue Market Share by Business Model (2021-2026)
Table 33. Global In-display Optical Fingerprint Sensor Sale Price by Business Model (2021-2026) & (US\$/Unit)
Table 34. Global In-display Optical Fingerprint Sensor Sale by Application (2021-2026) & (Units)
Table 35. Global In-display Optical Fingerprint Sensor Sale Market Share by Application (2021-2026)
Table 36. Global In-display Optical Fingerprint Sensor Revenue by Application (2021-2026) & (\$ million)
Table 37. Global In-display Optical Fingerprint Sensor Revenue Market Share by Application (2021-2026)
Table 38. Global In-display Optical Fingerprint Sensor Sale Price by Application (2021-2026) & (US\$/Unit)
Table 39. Global In-display Optical Fingerprint Sensor Sales by Company (2021-2026) & (Units)
Table 40. Global In-display Optical Fingerprint Sensor Sales Market Share by Company (2021-2026)
Table 41. Global In-display Optical Fingerprint Sensor Revenue by Company (2021-2026) & (\$ millions)
Table 42. Global In-display Optical Fingerprint Sensor Revenue Market Share by Company (2021-2026)
Table 43. Global In-display Optical Fingerprint Sensor Sale Price by Company (2021-2026) & (US\$/Unit)
Table 44. Key Manufacturers In-display Optical Fingerprint Sensor Producing Area Distribution and Sales Area
Table 45. Players In-display Optical Fingerprint Sensor Products Offered
Table 46. In-display Optical Fingerprint Sensor Concentration Ratio (CR3, CR5 and

CR10) & (2024-2026)

Table 47. New Products and Potential Entrants

Table 48. Market M&A Activity & Strategy

Table 49. Global In-display Optical Fingerprint Sensor Sales by Geographic Region (2021-2026) & (Units)

Table 50. Global In-display Optical Fingerprint Sensor Sales Market Share Geographic Region (2021-2026)

Table 51. Global In-display Optical Fingerprint Sensor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 52. Global In-display Optical Fingerprint Sensor Revenue Market Share by Geographic Region (2021-2026)

Table 53. Global In-display Optical Fingerprint Sensor Sales by Country/Region (2021-2026) & (Units)

Table 54. Global In-display Optical Fingerprint Sensor Sales Market Share by Country/Region (2021-2026)

Table 55. Global In-display Optical Fingerprint Sensor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 56. Global In-display Optical Fingerprint Sensor Revenue Market Share by Country/Region (2021-2026)

Table 57. Americas In-display Optical Fingerprint Sensor Sales by Country (2021-2026) & (Units)

Table 58. Americas In-display Optical Fingerprint Sensor Sales Market Share by Country (2021-2026)

Table 59. Americas In-display Optical Fingerprint Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 60. Americas In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026) & (Units)

Table 61. Americas In-display Optical Fingerprint Sensor Sales by Application (2021-2026) & (Units)

Table 62. APAC In-display Optical Fingerprint Sensor Sales by Region (2021-2026) & (Units)

Table 63. APAC In-display Optical Fingerprint Sensor Sales Market Share by Region (2021-2026)

Table 64. APAC In-display Optical Fingerprint Sensor Revenue by Region (2021-2026) & (\$ millions)

Table 65. APAC In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026) & (Units)

Table 66. APAC In-display Optical Fingerprint Sensor Sales by Application (2021-2026) & (Units)

Table 67. Europe In-display Optical Fingerprint Sensor Sales by Country (2021-2026) & (Units)

Table 68. Europe In-display Optical Fingerprint Sensor Revenue by Country (2021-2026) & (\$ millions)

Table 69. Europe In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026) & (Units)

Table 70. Europe In-display Optical Fingerprint Sensor Sales by Application (2021-2026) & (Units)

Table 71. Middle East & Africa In-display Optical Fingerprint Sensor Sales by Country (2021-2026) & (Units)

Table 72. Middle East & Africa In-display Optical Fingerprint Sensor Revenue Market Share by Country (2021-2026)

Table 73. Middle East & Africa In-display Optical Fingerprint Sensor Sales by Market Positioning (2021-2026) & (Units)

Table 74. Middle East & Africa In-display Optical Fingerprint Sensor Sales by Application (2021-2026) & (Units)

Table 75. Key Market Drivers & Growth Opportunities of In-display Optical Fingerprint Sensor

Table 76. Key Market Challenges & Risks of In-display Optical Fingerprint Sensor

Table 77. Key Industry Trends of In-display Optical Fingerprint Sensor

Table 78. In-display Optical Fingerprint Sensor Raw Material

Table 79. Key Suppliers of Raw Materials

Table 80. In-display Optical Fingerprint Sensor Distributors List

Table 81. In-display Optical Fingerprint Sensor Customer List

Table 82. Global In-display Optical Fingerprint Sensor Sales Forecast by Region (2027-2032) & (Units)

Table 83. Global In-display Optical Fingerprint Sensor Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 84. Americas In-display Optical Fingerprint Sensor Sales Forecast by Country (2027-2032) & (Units)

Table 85. Americas In-display Optical Fingerprint Sensor Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. APAC In-display Optical Fingerprint Sensor Sales Forecast by Region (2027-2032) & (Units)

Table 87. APAC In-display Optical Fingerprint Sensor Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 88. Europe In-display Optical Fingerprint Sensor Sales Forecast by Country (2027-2032) & (Units)

Table 89. Europe In-display Optical Fingerprint Sensor Revenue Forecast by Country

(2027-2032) & (\$ millions)

Table 90. Middle East & Africa In-display Optical Fingerprint Sensor Sales Forecast by Country (2027-2032) & (Units)

Table 91. Middle East & Africa In-display Optical Fingerprint Sensor Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. Global In-display Optical Fingerprint Sensor Sales Forecast by Market Positioning (2027-2032) & (Units)

Table 93. Global In-display Optical Fingerprint Sensor Revenue Forecast by Market Positioning (2027-2032) & (\$ millions)

Table 94. Global In-display Optical Fingerprint Sensor Sales Forecast by Application (2027-2032) & (Units)

Table 95. Global In-display Optical Fingerprint Sensor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 96. Shenzhen Goodix Technology Co., Ltd. Basic Information, In-display Optical Fingerprint Sensor Manufacturing Base, Sales Area and Its Competitors

Table 97. Shenzhen Goodix Technology Co., Ltd. In-display Optical Fingerprint Sensor Product Portfolios and Specifications

Table 98. Shenzhen Goodix Technology Co., Ltd. In-display Optical Fingerprint Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Shenzhen Goodix Technology Co., Ltd. Main Business

Table 100. Shenzhen Goodix Technology Co., Ltd. Latest Developments

Table 101. Egis Technology Inc. Basic Information, In-display Optical Fingerprint Sensor Manufacturing Base, Sales Area and Its Competitors

Table 102. Egis Technology Inc. In-display Optical Fingerprint Sensor Product Portfolios and Specifications

Table 103. Egis Technology Inc. In-display Optical Fingerprint Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Egis Technology Inc. Main Business

Table 105. Egis Technology Inc. Latest Developments

Table 106. Synaptics Incorporated Basic Information, In-display Optical Fingerprint Sensor Manufacturing Base, Sales Area and Its Competitors

Table 107. Synaptics Incorporated In-display Optical Fingerprint Sensor Product Portfolios and Specifications

Table 108. Synaptics Incorporated In-display Optical Fingerprint Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Synaptics Incorporated Main Business

Table 110. Synaptics Incorporated Latest Developments

Table 111. Fingerprint Cards AB Basic Information, In-display Optical Fingerprint Sensor Manufacturing Base, Sales Area and Its Competitors

Table 112. Fingerprint Cards AB In-display Optical Fingerprint Sensor Product Portfolios and Specifications

Table 113. Fingerprint Cards AB In-display Optical Fingerprint Sensor Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Fingerprint Cards AB Main Business

Table 115. Fingerprint Cards AB Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of In-display Optical Fingerprint Sensor
- Figure 2. In-display Optical Fingerprint Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global In-display Optical Fingerprint Sensor Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global In-display Optical Fingerprint Sensor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. In-display Optical Fingerprint Sensor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. In-display Optical Fingerprint Sensor Sales Market Share by Country/Region (2025)
- Figure 10. In-display Optical Fingerprint Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Low-cost Optical Solution
- Figure 12. Product Picture of Balanced Mainstream Solution
- Figure 13. Product Picture of Ultra-thin Premium Solution
- Figure 14. Product Picture of Large-area Premium Solution
- Figure 15. Product Picture of High-security Solution
- Figure 16. Product Picture of Customized OEM Solution
- Figure 17. Global In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning in 2026
- Figure 18. Global In-display Optical Fingerprint Sensor Revenue Market Share by Market Positioning (2021-2026)
- Figure 19. Product Picture of Sensor IC
- Figure 20. Product Picture of Sensor Module
- Figure 21. Product Picture of Ultra-thin Optical Module
- Figure 22. Product Picture of Large-area Optical Module
- Figure 23. Product Picture of Algorithm-integrated Solution
- Figure 24. Global In-display Optical Fingerprint Sensor Sales Market Share by Product Form in 2026
- Figure 25. Global In-display Optical Fingerprint Sensor Revenue Market Share by Product Form (2021-2026)
- Figure 26. Product Picture of Sensor Chip Sales

- Figure 27. Product Picture of Turnkey Module Solution
- Figure 28. Product Picture of Chip + Algorithm Bundle
- Figure 29. Product Picture of Co-development with Smartphone OEM
- Figure 30. Product Picture of Licensing / IP-supported Model
- Figure 31. Global In-display Optical Fingerprint Sensor Sales Market Share by Business Model in 2026
- Figure 32. Global In-display Optical Fingerprint Sensor Revenue Market Share by Business Model (2021-2026)
- Figure 33. In-display Optical Fingerprint Sensor Consumed in Smart Phones
- Figure 34. Global In-display Optical Fingerprint Sensor Market: Smart Phones (2021-2026) & (Units)
- Figure 35. In-display Optical Fingerprint Sensor Consumed in Tablet
- Figure 36. Global In-display Optical Fingerprint Sensor Market: Tablet (2021-2026) & (Units)
- Figure 37. In-display Optical Fingerprint Sensor Consumed in Laptop
- Figure 38. Global In-display Optical Fingerprint Sensor Market: Laptop (2021-2026) & (Units)
- Figure 39. In-display Optical Fingerprint Sensor Consumed in Wearable / Mobile Devices
- Figure 40. Global In-display Optical Fingerprint Sensor Market: Wearable / Mobile Devices (2021-2026) & (Units)
- Figure 41. Global In-display Optical Fingerprint Sensor Sale Market Share by Application (2025)
- Figure 42. Global In-display Optical Fingerprint Sensor Revenue Market Share by Application in 2025
- Figure 43. In-display Optical Fingerprint Sensor Sales by Company in 2025 (Units)
- Figure 44. Global In-display Optical Fingerprint Sensor Sales Market Share by Company in 2025
- Figure 45. In-display Optical Fingerprint Sensor Revenue by Company in 2025 (\$ millions)
- Figure 46. Global In-display Optical Fingerprint Sensor Revenue Market Share by Company in 2025
- Figure 47. Global In-display Optical Fingerprint Sensor Sales Market Share by Geographic Region (2021-2026)
- Figure 48. Global In-display Optical Fingerprint Sensor Revenue Market Share by Geographic Region in 2025
- Figure 49. Americas In-display Optical Fingerprint Sensor Sales 2021-2026 (Units)
- Figure 50. Americas In-display Optical Fingerprint Sensor Revenue 2021-2026 (\$ millions)

- Figure 51. APAC In-display Optical Fingerprint Sensor Sales 2021-2026 (Units)
- Figure 52. APAC In-display Optical Fingerprint Sensor Revenue 2021-2026 (\$ millions)
- Figure 53. Europe In-display Optical Fingerprint Sensor Sales 2021-2026 (Units)
- Figure 54. Europe In-display Optical Fingerprint Sensor Revenue 2021-2026 (\$ millions)
- Figure 55. Middle East & Africa In-display Optical Fingerprint Sensor Sales 2021-2026 (Units)
- Figure 56. Middle East & Africa In-display Optical Fingerprint Sensor Revenue 2021-2026 (\$ millions)
- Figure 57. Americas In-display Optical Fingerprint Sensor Sales Market Share by Country in 2025
- Figure 58. Americas In-display Optical Fingerprint Sensor Revenue Market Share by Country (2021-2026)
- Figure 59. Americas In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning (2021-2026)
- Figure 60. Americas In-display Optical Fingerprint Sensor Sales Market Share by Application (2021-2026)
- Figure 61. United States In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Canada In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Mexico In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 64. Brazil In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 65. APAC In-display Optical Fingerprint Sensor Sales Market Share by Region in 2025
- Figure 66. APAC In-display Optical Fingerprint Sensor Revenue Market Share by Region (2021-2026)
- Figure 67. APAC In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning (2021-2026)
- Figure 68. APAC In-display Optical Fingerprint Sensor Sales Market Share by Application (2021-2026)
- Figure 69. China In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Japan In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 71. South Korea In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Southeast Asia In-display Optical Fingerprint Sensor Revenue Growth

2021-2026 (\$ millions)

Figure 73. India In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe In-display Optical Fingerprint Sensor Sales Market Share by Country in 2025

Figure 77. Europe In-display Optical Fingerprint Sensor Revenue Market Share by Country (2021-2026)

Figure 78. Europe In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning (2021-2026)

Figure 79. Europe In-display Optical Fingerprint Sensor Sales Market Share by Application (2021-2026)

Figure 80. Germany In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 81. France In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa In-display Optical Fingerprint Sensor Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa In-display Optical Fingerprint Sensor Sales Market Share by Market Positioning (2021-2026)

Figure 87. Middle East & Africa In-display Optical Fingerprint Sensor Sales Market Share by Application (2021-2026)

Figure 88. Egypt In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 89. South Africa In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 90. Israel In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 91. Turkey In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 92. GCC Countries In-display Optical Fingerprint Sensor Revenue Growth 2021-2026 (\$ millions)

Figure 93. Manufacturing Cost Structure Analysis of In-display Optical Fingerprint Sensor in 2026

Figure 94. Manufacturing Process Analysis of In-display Optical Fingerprint Sensor

Figure 95. Industry Chain Structure of In-display Optical Fingerprint Sensor

Figure 96. Channels of Distribution

Figure 97. Global In-display Optical Fingerprint Sensor Sales Market Forecast by Region (2027-2032)

Figure 98. Global In-display Optical Fingerprint Sensor Revenue Market Share Forecast by Region (2027-2032)

Figure 99. Global In-display Optical Fingerprint Sensor Sales Market Share Forecast by Market Positioning (2027-2032)

Figure 100. Global In-display Optical Fingerprint Sensor Revenue Market Share Forecast by Market Positioning (2027-2032)

Figure 101. Global In-display Optical Fingerprint Sensor Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global In-display Optical Fingerprint Sensor Revenue Market Share Forecast by Application (2027-2032)

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