

Global Optical Under-Screen Fingerprint Recognition Market Research Report 2026(Status and Outlook)

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Abstracts

Optical under-screen fingerprint recognition is widely used in modern smartphones and tablets. This technology integrates a micro camera and light source under the screen, and uses an optical sensor to capture the fingerprint image of the user's finger to achieve unlocking and authentication functions. When the user places his finger on the screen, the light-emitting layer at the bottom of the screen illuminates the fingerprint area, and the optical sensor captures a high-resolution fingerprint image and compares it with the pre-stored data.

The global Optical Under-Screen Fingerprint Recognition market size was estimated at USD 1825.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Optical Under-Screen Fingerprint Recognition market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Optical Under-Screen Fingerprint Recognition market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and

operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Optical Under-Screen Fingerprint Recognition market.

Global Optical Under-Screen Fingerprint Recognition Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Synaptics
Goodix Technology
Egis Technology
Beijing GigaDevice
Shanghai OXi Technology
VKANSEE
Focaltech Electronics

Market Segmentation (by Type)

CMOS Optical Solution
TFT Optical Solution

Market Segmentation (by Application)

Smartphone
Tablet
POS Terminal
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Optical Under-Screen Fingerprint Recognition Market
Overview of the regional outlook of the Optical Under-Screen Fingerprint Recognition Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future

development potential, and so on. It offers a high-level view of the current state of the Optical Under-Screen Fingerprint Recognition Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Optical Under-Screen Fingerprint Recognition, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Optical Under-Screen Fingerprint Recognition
- 1.2 Key Market Segments
 - 1.2.1 Optical Under-Screen Fingerprint Recognition Segment by Type
 - 1.2.2 Optical Under-Screen Fingerprint Recognition Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Optical Under-Screen Fingerprint Recognition Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Optical Under-Screen Fingerprint Recognition Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Optical Under-Screen Fingerprint Recognition Product Life Cycle
- 3.3 Global Optical Under-Screen Fingerprint Recognition Sales by Manufacturers (2020-2025)
- 3.4 Global Optical Under-Screen Fingerprint Recognition Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Optical Under-Screen Fingerprint Recognition Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Optical Under-Screen Fingerprint Recognition Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Optical Under-Screen Fingerprint Recognition Market Competitive Situation and Trends
 - 3.8.1 Optical Under-Screen Fingerprint Recognition Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Optical Under-Screen Fingerprint Recognition Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION INDUSTRY CHAIN ANALYSIS

- 4.1 Optical Under-Screen Fingerprint Recognition Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Optical Under-Screen Fingerprint Recognition Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Optical Under-Screen Fingerprint Recognition Market
- 5.7 ESG Ratings of Leading Companies

6 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Type (2020-2025)
- 6.3 Global Optical Under-Screen Fingerprint Recognition Market Size by Type (2020-2025)
- 6.4 Global Optical Under-Screen Fingerprint Recognition Price by Type (2020-2025)

7 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Optical Under-Screen Fingerprint Recognition Market Sales by Application (2020-2025)
- 7.3 Global Optical Under-Screen Fingerprint Recognition Market Size (M USD) by Application (2020-2025)
- 7.4 Global Optical Under-Screen Fingerprint Recognition Sales Growth Rate by Application (2020-2025)

8 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET SALES BY REGION

- 8.1 Global Optical Under-Screen Fingerprint Recognition Sales by Region
 - 8.1.1 Global Optical Under-Screen Fingerprint Recognition Sales by Region
 - 8.1.2 Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Region
- 8.2 Global Optical Under-Screen Fingerprint Recognition Market Size by Region
 - 8.2.1 Global Optical Under-Screen Fingerprint Recognition Market Size by Region
 - 8.2.2 Global Optical Under-Screen Fingerprint Recognition Market Size by Region
- 8.3 North America
 - 8.3.1 North America Optical Under-Screen Fingerprint Recognition Sales by Country
 - 8.3.2 North America Optical Under-Screen Fingerprint Recognition Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Optical Under-Screen Fingerprint Recognition Sales by Country

8.4.2 Europe Optical Under-Screen Fingerprint Recognition Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Optical Under-Screen Fingerprint Recognition Sales by Region

8.5.2 Asia Pacific Optical Under-Screen Fingerprint Recognition Market Size by

Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Optical Under-Screen Fingerprint Recognition Sales by Country

8.6.2 South America Optical Under-Screen Fingerprint Recognition Market Size by

Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Optical Under-Screen Fingerprint Recognition Sales by Region

8.7.2 Middle East and Africa Optical Under-Screen Fingerprint Recognition Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET PRODUCTION BY REGION

9.1 Global Production of Optical Under-Screen Fingerprint Recognition by

Region(2020-2025)

9.2 Global Optical Under-Screen Fingerprint Recognition Revenue Market Share by Region (2020-2025)

9.3 Global Optical Under-Screen Fingerprint Recognition Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Optical Under-Screen Fingerprint Recognition Production

9.4.1 North America Optical Under-Screen Fingerprint Recognition Production Growth Rate (2020-2025)

9.4.2 North America Optical Under-Screen Fingerprint Recognition Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Optical Under-Screen Fingerprint Recognition Production

9.5.1 Europe Optical Under-Screen Fingerprint Recognition Production Growth Rate (2020-2025)

9.5.2 Europe Optical Under-Screen Fingerprint Recognition Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Optical Under-Screen Fingerprint Recognition Production (2020-2025)

9.6.1 Japan Optical Under-Screen Fingerprint Recognition Production Growth Rate (2020-2025)

9.6.2 Japan Optical Under-Screen Fingerprint Recognition Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Optical Under-Screen Fingerprint Recognition Production (2020-2025)

9.7.1 China Optical Under-Screen Fingerprint Recognition Production Growth Rate (2020-2025)

9.7.2 China Optical Under-Screen Fingerprint Recognition Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Synaptics

10.1.1 Synaptics Basic Information

10.1.2 Synaptics Optical Under-Screen Fingerprint Recognition Product Overview

10.1.3 Synaptics Optical Under-Screen Fingerprint Recognition Product Market

Performance

10.1.4 Synaptics Business Overview

10.1.5 Synaptics SWOT Analysis

10.1.6 Synaptics Recent Developments

10.2 Goodix Technology

10.2.1 Goodix Technology Basic Information

10.2.2 Goodix Technology Optical Under-Screen Fingerprint Recognition Product

Overview

10.2.3 Goodix Technology Optical Under-Screen Fingerprint Recognition Product

Market Performance

10.2.4 Goodix Technology Business Overview

10.2.5 Goodix Technology SWOT Analysis

10.2.6 Goodix Technology Recent Developments

10.3 Egis Technology

10.3.1 Egis Technology Basic Information

10.3.2 Egis Technology Optical Under-Screen Fingerprint Recognition Product

Overview

10.3.3 Egis Technology Optical Under-Screen Fingerprint Recognition Product Market

Performance

10.3.4 Egis Technology Business Overview

10.3.5 Egis Technology SWOT Analysis

10.3.6 Egis Technology Recent Developments

10.4 Beijing GigaDevice

10.4.1 Beijing GigaDevice Basic Information

10.4.2 Beijing GigaDevice Optical Under-Screen Fingerprint Recognition Product

Overview

10.4.3 Beijing GigaDevice Optical Under-Screen Fingerprint Recognition Product

Market Performance

10.4.4 Beijing GigaDevice Business Overview

10.4.5 Beijing GigaDevice Recent Developments

10.5 Shanghai OXi Technology

10.5.1 Shanghai OXi Technology Basic Information

10.5.2 Shanghai OXi Technology Optical Under-Screen Fingerprint Recognition

Product Overview

10.5.3 Shanghai OXi Technology Optical Under-Screen Fingerprint Recognition

Product Market Performance

10.5.4 Shanghai OXi Technology Business Overview

10.5.5 Shanghai OXi Technology Recent Developments

10.6 VKANSEE

10.6.1 VKANSEE Basic Information

10.6.2 VKANSEE Optical Under-Screen Fingerprint Recognition Product Overview

10.6.3 VKANSEE Optical Under-Screen Fingerprint Recognition Product Market

Performance

10.6.4 VKANSEE Business Overview

10.6.5 VKANSEE Recent Developments

10.7 Focaltech Electronics

- 10.7.1 Focaltech Electronics Basic Information
- 10.7.2 Focaltech Electronics Optical Under-Screen Fingerprint Recognition Product Overview
- 10.7.3 Focaltech Electronics Optical Under-Screen Fingerprint Recognition Product Market Performance
- 10.7.4 Focaltech Electronics Business Overview
- 10.7.5 Focaltech Electronics Recent Developments

11 OPTICAL UNDER-SCREEN FINGERPRINT RECOGNITION MARKET FORECAST BY REGION

- 11.1 Global Optical Under-Screen Fingerprint Recognition Market Size Forecast
- 11.2 Global Optical Under-Screen Fingerprint Recognition Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Optical Under-Screen Fingerprint Recognition Market Size Forecast by Country
 - 11.2.3 Asia Pacific Optical Under-Screen Fingerprint Recognition Market Size Forecast by Region
 - 11.2.4 South America Optical Under-Screen Fingerprint Recognition Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Optical Under-Screen Fingerprint Recognition by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Optical Under-Screen Fingerprint Recognition Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Optical Under-Screen Fingerprint Recognition by Type (2026-2035)
 - 12.1.2 Global Optical Under-Screen Fingerprint Recognition Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Optical Under-Screen Fingerprint Recognition by Type (2026-2035)
- 12.2 Global Optical Under-Screen Fingerprint Recognition Market Forecast by Application (2026-2035)
 - 12.2.1 Global Optical Under-Screen Fingerprint Recognition Sales (K Units) Forecast by Application
 - 12.2.2 Global Optical Under-Screen Fingerprint Recognition Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Optical Under-Screen Fingerprint Recognition Market Size by Type (M USD)
- Table 4. Global Optical Under-Screen Fingerprint Recognition Market Size by Application
- Table 5. Optical Under-Screen Fingerprint Recognition Market Size Comparison by Region (M USD)
- Table 6. Global Optical Under-Screen Fingerprint Recognition Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Optical Under-Screen Fingerprint Recognition Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Optical Under-Screen Fingerprint Recognition Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Optical Under-Screen Fingerprint Recognition as of 2025)
- Table 11. Global Market Optical Under-Screen Fingerprint Recognition Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Optical Under-Screen Fingerprint Recognition Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Optical Under-Screen Fingerprint Recognition Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading

Countries

Table 26. Global Optical Under-Screen Fingerprint Recognition Sales by Type (K Units)

Table 27. Global Optical Under-Screen Fingerprint Recognition Market Size by Type (M USD)

Table 28. Global Optical Under-Screen Fingerprint Recognition Sales (K Units) by Type (2020-2025)

Table 29. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Type (2020-2025)

Table 30. Global Optical Under-Screen Fingerprint Recognition Market Size (M USD) by Type (2020-2025)

Table 31. Global Optical Under-Screen Fingerprint Recognition Market Share by Type (2020-2025)

Table 32. Global Optical Under-Screen Fingerprint Recognition Price (USD/Unit) by Type (2020-2025)

Table 33. Global Optical Under-Screen Fingerprint Recognition Sales (K Units) by Application

Table 34. Global Optical Under-Screen Fingerprint Recognition Market Size by Application

Table 35. Global Optical Under-Screen Fingerprint Recognition Sales by Application (2020-2025) & (K Units)

Table 36. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Application (2020-2025)

Table 37. Global Optical Under-Screen Fingerprint Recognition Market Size by Application (2020-2025) & (M USD)

Table 38. Global Optical Under-Screen Fingerprint Recognition Market Share by Application (2020-2025)

Table 39. Global Optical Under-Screen Fingerprint Recognition Sales Growth Rate by Application (2020-2025)

Table 40. Global Optical Under-Screen Fingerprint Recognition Sales by Region (2020-2025) & (K Units)

Table 41. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Region (2020-2025)

Table 42. Global Optical Under-Screen Fingerprint Recognition Market Size by Region (2020-2025) & (M USD)

Table 43. Global Optical Under-Screen Fingerprint Recognition Market Size by Region (2020-2025)

Table 44. North America Optical Under-Screen Fingerprint Recognition Sales by Country (2020-2025) & (K Units)

Table 45. North America Optical Under-Screen Fingerprint Recognition Market Size by

Country (2020-2025) & (M USD)

Table 46. Europe Optical Under-Screen Fingerprint Recognition Sales by Country (2020-2025) & (K Units)

Table 47. Europe Optical Under-Screen Fingerprint Recognition Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Optical Under-Screen Fingerprint Recognition Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Optical Under-Screen Fingerprint Recognition Market Size by Region (2020-2025) & (M USD)

Table 50. South America Optical Under-Screen Fingerprint Recognition Sales by Country (2020-2025) & (K Units)

Table 51. South America Optical Under-Screen Fingerprint Recognition Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Optical Under-Screen Fingerprint Recognition Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Optical Under-Screen Fingerprint Recognition Market Size by Region (2020-2025) & (M USD)

Table 54. Global Optical Under-Screen Fingerprint Recognition Production (K Units) by Region(2020-2025)

Table 55. Global Optical Under-Screen Fingerprint Recognition Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Optical Under-Screen Fingerprint Recognition Revenue Market Share by Region (2020-2025)

Table 57. Global Optical Under-Screen Fingerprint Recognition Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Optical Under-Screen Fingerprint Recognition Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Optical Under-Screen Fingerprint Recognition Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Optical Under-Screen Fingerprint Recognition Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Optical Under-Screen Fingerprint Recognition Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Synaptics Basic Information

Table 63. Synaptics Optical Under-Screen Fingerprint Recognition Product Overview

Table 64. Synaptics Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Synaptics Business Overview

Table 66. Synaptics SWOT Analysis

Table 67. Synaptics Recent Developments

Table 68. Goodix Technology Basic Information

Table 69. Goodix Technology Optical Under-Screen Fingerprint Recognition Product Overview

Table 70. Goodix Technology Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Goodix Technology Business Overview

Table 72. Goodix Technology SWOT Analysis

Table 73. Goodix Technology Recent Developments

Table 74. Egis Technology Basic Information

Table 75. Egis Technology Optical Under-Screen Fingerprint Recognition Product Overview

Table 76. Egis Technology Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Egis Technology Business Overview

Table 78. Egis Technology SWOT Analysis

Table 79. Egis Technology Recent Developments

Table 80. Beijing GigaDevice Basic Information

Table 81. Beijing GigaDevice Optical Under-Screen Fingerprint Recognition Product Overview

Table 82. Beijing GigaDevice Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Beijing GigaDevice Business Overview

Table 84. Beijing GigaDevice Recent Developments

Table 85. Shanghai OXi Technology Basic Information

Table 86. Shanghai OXi Technology Optical Under-Screen Fingerprint Recognition Product Overview

Table 87. Shanghai OXi Technology Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Shanghai OXi Technology Business Overview

Table 89. Shanghai OXi Technology Recent Developments

Table 90. VKANSEE Basic Information

Table 91. VKANSEE Optical Under-Screen Fingerprint Recognition Product Overview

Table 92. VKANSEE Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. VKANSEE Business Overview

Table 94. VKANSEE Recent Developments

Table 95. Focaltech Electronics Basic Information

Table 96. Focaltech Electronics Optical Under-Screen Fingerprint Recognition Product

Overview

Table 97. Focaltech Electronics Optical Under-Screen Fingerprint Recognition Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Focaltech Electronics Business Overview

Table 99. Focaltech Electronics Recent Developments

Table 100. Global Optical Under-Screen Fingerprint Recognition Sales Forecast by Region (2026-2035) & (K Units)

Table 101. Global Optical Under-Screen Fingerprint Recognition Market Size Forecast by Region (2026-2035) & (M USD)

Table 102. North America Optical Under-Screen Fingerprint Recognition Sales Forecast by Country (2026-2035) & (K Units)

Table 103. North America Optical Under-Screen Fingerprint Recognition Market Size Forecast by Country (2026-2035) & (M USD)

Table 104. Europe Optical Under-Screen Fingerprint Recognition Sales Forecast by Country (2026-2035) & (K Units)

Table 105. Europe Optical Under-Screen Fingerprint Recognition Market Size Forecast by Country (2026-2035) & (M USD)

Table 106. Asia Pacific Optical Under-Screen Fingerprint Recognition Sales Forecast by Region (2026-2035) & (K Units)

Table 107. Asia Pacific Optical Under-Screen Fingerprint Recognition Market Size Forecast by Region (2026-2035) & (M USD)

Table 108. South America Optical Under-Screen Fingerprint Recognition Sales Forecast by Country (2026-2035) & (K Units)

Table 109. South America Optical Under-Screen Fingerprint Recognition Market Size Forecast by Country (2026-2035) & (M USD)

Table 110. Middle East and Africa Optical Under-Screen Fingerprint Recognition Sales Forecast by Country (2026-2035) & (Units)

Table 111. Middle East and Africa Optical Under-Screen Fingerprint Recognition Market Size Forecast by Country (2026-2035) & (M USD)

Table 112. Global Optical Under-Screen Fingerprint Recognition Sales Forecast by Type (2026-2035) & (K Units)

Table 113. Global Optical Under-Screen Fingerprint Recognition Market Size Forecast by Type (2026-2035) & (M USD)

Table 114. Global Optical Under-Screen Fingerprint Recognition Price Forecast by Type (2026-2035) & (USD/Unit)

Table 115. Global Optical Under-Screen Fingerprint Recognition Sales (K Units) Forecast by Application (2026-2035)

Table 116. Global Optical Under-Screen Fingerprint Recognition Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Optical Under-Screen Fingerprint Recognition

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Optical Under-Screen Fingerprint Recognition Market Size (M USD), 2025-2035

Figure 5. Global Optical Under-Screen Fingerprint Recognition Market Size (M USD) (2020-2035)

Figure 6. Global Optical Under-Screen Fingerprint Recognition Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Optical Under-Screen Fingerprint Recognition Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Optical Under-Screen Fingerprint Recognition Product Life Cycle

Figure 13. Optical Under-Screen Fingerprint Recognition Sales Share by Manufacturers in 2025

Figure 14. Global Optical Under-Screen Fingerprint Recognition Revenue Share by Manufacturers in 2025

Figure 15. Optical Under-Screen Fingerprint Recognition Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Optical Under-Screen Fingerprint Recognition Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Optical Under-Screen Fingerprint Recognition Revenue in 2025

Figure 18. Industry Chain Map of Optical Under-Screen Fingerprint Recognition

Figure 19. Global Optical Under-Screen Fingerprint Recognition Market PEST Analysis

Figure 20. Global Optical Under-Screen Fingerprint Recognition Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Optical Under-Screen Fingerprint Recognition Market Share by Type

Figure 27. Sales Market Share of Optical Under-Screen Fingerprint Recognition by Type (2020-2025)

Figure 28. Sales Market Share of Optical Under-Screen Fingerprint Recognition by Type in 2025

Figure 29. Market Share of Optical Under-Screen Fingerprint Recognition by Type (2020-2025)

Figure 30. Market Share of Optical Under-Screen Fingerprint Recognition by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Optical Under-Screen Fingerprint Recognition Market Share by Application

Figure 33. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Application (2020-2025)

Figure 34. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Application in 2025

Figure 35. Global Optical Under-Screen Fingerprint Recognition Market Share by Application (2020-2025)

Figure 36. Global Optical Under-Screen Fingerprint Recognition Market Share by Application in 2025

Figure 37. Global Optical Under-Screen Fingerprint Recognition Sales Growth Rate by Application (2020-2025)

Figure 38. Global Optical Under-Screen Fingerprint Recognition Sales Market Share by Region (2020-2025)

Figure 39. Global Optical Under-Screen Fingerprint Recognition Market Size by Region (2020-2025)

Figure 40. North America Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Optical Under-Screen Fingerprint Recognition Sales Market Share by Country in 2024

Figure 43. North America Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Optical Under-Screen Fingerprint Recognition Market Size by Country in 2024

Figure 45. U.S. Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Optical Under-Screen Fingerprint Recognition Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada Optical Under-Screen Fingerprint Recognition Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Optical Under-Screen Fingerprint Recognition Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Optical Under-Screen Fingerprint Recognition Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Optical Under-Screen Fingerprint Recognition Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Optical Under-Screen Fingerprint Recognition Sales Market Share by Country in 2024

Figure 53. Europe Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Optical Under-Screen Fingerprint Recognition Market Size by Country in 2024

Figure 55. Germany Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Optical Under-Screen Fingerprint Recognition Sales Market Share by Region in 2024

Figure 67. Asia Pacific Optical Under-Screen Fingerprint Recognition Market Size by Region in 2024

Figure 68. China Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (K Units)

Figure 79. South America Optical Under-Screen Fingerprint Recognition Sales Market Share by Country in 2024

Figure 80. South America Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (M USD)

Figure 81. South America Optical Under-Screen Fingerprint Recognition Market Size by Country in 2024

Figure 82. Brazil Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Optical Under-Screen Fingerprint Recognition Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Optical Under-Screen Fingerprint Recognition Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Optical Under-Screen Fingerprint Recognition Market Size by Region in 2024

Figure 92. Saudi Arabia Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Optical Under-Screen Fingerprint Recognition Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Optical Under-Screen Fingerprint Recognition Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Optical Under-Screen Fingerprint Recognition Production Market Share by Region (2020-2025)

Figure 103. North America Optical Under-Screen Fingerprint Recognition Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Optical Under-Screen Fingerprint Recognition Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Optical Under-Screen Fingerprint Recognition Production (K Units) Growth Rate (2020-2025)

Figure 106. China Optical Under-Screen Fingerprint Recognition Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Optical Under-Screen Fingerprint Recognition Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Optical Under-Screen Fingerprint Recognition Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Optical Under-Screen Fingerprint Recognition Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Optical Under-Screen Fingerprint Recognition Market Share Forecast by Type (2026-2035)

Figure 111. Global Optical Under-Screen Fingerprint Recognition Sales Forecast by Application (2026-2035)

Figure 112. Global Optical Under-Screen Fingerprint Recognition Market Share Forecast by Application (2026-2035)

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