

Global Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors market size was valued at US\$ 2529 million in 2025 and is forecast to a readjusted size of US\$ 3344 million by 2032 with a CAGR of 4.1% during review period.

The optical invisible fingerprint sensor is a new type of biometric technology that combines optical imaging with under-screen integrated design, aiming to achieve high-precision fingerprint recognition while improving the integration and aesthetics of the device's appearance. This technology hides the sensor under a high-transmittance display such as OLED. When the user's finger touches a specific area of the screen, the screen light source will illuminate the fingerprint area, and the reflected light will pass through the screen structure to the optical sensor below, thereby capturing the fingerprint pattern image and performing image processing and comparison. This technology has high requirements on the optical properties of the screen material, light transmittance uniformity, and module packaging process, and is suitable for mid-to-high-end smartphones, tablets and other devices.

This report is a detailed and comprehensive analysis for global Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors

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 Optical Invisible Fingerprint Sensors 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 Synaptics, CrucialTec, Goodix Technology, Beijing Chipone Technology, Beijing GigaDevice, Egis Technology, Fingerprint Cards, NEXT Biometrics, etc.

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

Market Segmentation

Optical Invisible Fingerprint Sensors 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

Lens Type

Ultra-thin Type

Market segment by Application

Smartphone

Tablet

Smart Door Lock

POS Terminal

Others

Major players covered

Synaptics

CrucialTec

Goodix Technology

Beijing Chipone Technology

Beijing GigaDevice

Egis Technology

Fingerprint Cards

NEXT Biometrics

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 Optical Invisible Fingerprint Sensors product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors 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 Optical Invisible Fingerprint Sensors.

Chapter 14 and 15, to describe Optical Invisible Fingerprint Sensors sales channel, distributors, customers, research findings and conclusion.

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