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Global Optical Under Screen Fingerprint Sensors Market Growth 2025-2031

https://marketpublishers.com/r/GED88BE60945EN.html
Date: February 2025
Pages: 103
Price: US$ 3,660.00 (Single User License)
ID: GED88BE60945EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Optical Under Screen Fingerprint Sensors market size is predicted to grow from US$ 2507 million in 2025 to US$ 3247 million in 2031; it is expected to grow at a CAGR of 4.4% from 2025 to 2031.

Optical under screen fingerprint sensors are widely used in modern smartphones and tablets. It integrates a micro camera and light source under the screen, uses optical principles to capture the fingerprint image of the user's finger, and achieves fast and accurate identity authentication. When the user places the finger on the designated area of ??the screen, the light-emitting layer at the bottom of the screen (usually an OLED screen) illuminates the fingerprint, and the optical sensor captures a high-resolution fingerprint image and compares it with the pre-stored data.

United States market for Optical Under Screen Fingerprint Sensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Optical Under Screen Fingerprint Sensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Optical Under Screen Fingerprint Sensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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Global key Optical Under Screen Fingerprint Sensors players cover Synaptics, CrucialTec, Goodix Technology, Beijing Chipone Technology, Beijing GigaDevice, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Optical Under Screen Fingerprint Sensors Industry Forecast” looks at past sales and reviews total world Optical Under Screen Fingerprint Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Optical Under Screen Fingerprint Sensors sales for 2025 through 2031. With Optical Under Screen Fingerprint Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Optical Under Screen Fingerprint Sensors industry.

This Insight Report provides a comprehensive analysis of the global Optical Under Screen Fingerprint Sensors 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 Optical Under Screen Fingerprint Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Optical Under Screen Fingerprint Sensors market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Optical Under Screen Fingerprint Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Lens Type

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Ultra-thin Type

Segmentation by Application:

Smartphone

Tablet

Smart Door Lock

POS Terminal

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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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.

Synaptics

CrucialTec

Goodix Technology

Beijing Chipone Technology

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Beijing GigaDevice

Egis Technology

Fingerprint Cards

NEXT Biometrics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Optical Under Screen Fingerprint Sensors market?

What factors are driving Optical Under Screen Fingerprint Sensors market growth, globally and by region?

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

How do Optical Under Screen Fingerprint Sensors market opportunities vary by end market size?

How does Optical Under Screen Fingerprint Sensors break out by Type, by Application?

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