

Global Biometric Filters Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biometric Filters market size is expected to reach \$ 607 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032). Biometric filters are precision optoelectronic thin-film components that, through special spectral design, allow only specific wavelengths of light (typically near-infrared light) to pass through. This enables smartphones, AR/VR devices, and security systems to perform accurate 3D facial recognition, iris recognition, fingerprint recognition, and gesture recognition, among other biometric feature extraction and authentication functions. They are core components for achieving high-precision motion interaction and secure identification.

The upstream segment mainly consists of suppliers of optical glass substrates (such as D263T and quartz glass), high-purity coating materials, and polishing fluids. This segment has high technological barriers, and the core substrate market has long been monopolized by giants such as Schott of Germany and Corning of Japan, giving them strong bargaining power. Global sales are projected to reach approximately 484 million units in 2025. Product prices mainly depend on requirements such as wavelength, bandwidth, diameter, and material, with market prices ranging from \$0.5 to \$20 per unit. The industry's gross profit margin is in the range of 25%-35%.

The biometric filter industry is currently in a critical expansion phase, rapidly diversifying from consumer electronics such as smartphones into various fields including automotive electronics, healthcare, and industrial vision. The core driving force behind this expansion is the continuous penetration and performance improvement of existing technologies in smart devices, particularly 3D sensing (especially structured light and ToF) and under-display optical fingerprint recognition. Furthermore, increasingly stringent regulations worldwide regarding data privacy and information security are also

objectively promoting the application of highly reliable optical components as the foundation of biometric hardware.

This report studies the global Biometric Filters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biometric Filters and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Biometric Filters that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biometric Filters total production and demand, 2021-2032, (Million Pcs)

Global Biometric Filters total production value, 2021-2032, (USD Million)

Global Biometric Filters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

Global Biometric Filters consumption by region & country, CAGR, 2021-2032 & (Million Pcs)

U.S. VS China: Biometric Filters domestic production, consumption, key domestic manufacturers and share

Global Biometric Filters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)

Global Biometric Filters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global Biometric Filters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

This report profiles key players in the global Biometric Filters market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include VIAVI Solutions, Optrontec, Materion, IDEX Optical Technologies, Alluxa, Andover, Crystal-Optech, Hubei W-olf Photoelectric, Dongguan Viko, Doti Micro, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Biometric Filters market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and

2027-2032 as the forecast year.

Global Biometric Filters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biometric Filters Market, Segmentation by Type:

Flexible Film Biometric Filter

Rigid Film Biometric Filter

Global Biometric Filters Market, Segmentation by Spectral Band:

Ultraviolet

Visible Light

Infrared

Global Biometric Filters Market, Segmentation by Technologies:

Fingerprint Recognition

Facial Recognition

Iris Recognition

Other

Global Biometric Filters Market, Segmentation by Application:

Smartphones

Tablets

Wearable Devices

AR/VR

Others

Companies Profiled:

VIAMI Solutions

Optrontec

Materion

IDEX Optical Technologies

Alluxa

Andover

Crystal-Optech

Hubei W-olf Photoelectric

Dongguan Viko

Doti Micro

Sunny Optical

Key Questions Answered:

1. How big is the global Biometric Filters market?
2. What is the demand of the global Biometric Filters market?
3. What is the year over year growth of the global Biometric Filters market?
4. What is the production and production value of the global Biometric Filters market?
5. Who are the key producers in the global Biometric Filters market?
6. What are the growth factors driving the market demand?

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