

Global Blue Glass Infrared Cutoff Filter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Blue Glass Infrared Cutoff Filter market size is expected to reach \$ 1129 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

In 2025, global Blue Glass Infrared Cutoff Filter production reached approximately 4.2 billion units, with an average global market price of around US\$206 per thousand units. A Blue Glass Infrared Cutoff Filter is an optical filter made from specialized blue-tinted glass that blocks or sharply attenuates infrared (IR) light while allowing visible light to pass through. It is commonly used in cameras, imaging systems, and optical sensors to prevent infrared radiation from reaching the image sensor, which can otherwise cause color distortion, reduced contrast, and white balance errors.

The Blue Glass Infrared Cutoff Filter market is a distinct segment of the broader optical filters industry, characterized by steady growth driven by expanding demand for precise spectral control in imaging, sensing and photonics applications. Blue glass infrared cutoff filters are engineered from specialty blue-tinted optical glass that absorbs or blocks near-infrared (NIR) wavelengths while transmitting visible light with minimal distortion. This makes them valuable in consumer electronics (especially smartphone and digital imaging systems), healthcare imaging and industrial vision systems, where accurate color reproduction and IR suppression are critical. Globally, the market was estimated at several hundred million U.S. dollars in the mid-2020s and is forecast to grow at a strong compound annual growth rate into the early 2030s, reflecting rising adoption across diversified end-use sectors. In the upstream segment of the supply chain, key inputs include high-purity blue glass substrates, advanced dielectric coating materials, precision grinding/polishing equipment and vacuum deposition systems. The quality, spectral uniformity and dimensional precision of these raw materials and

equipment fundamentally determine the optical performance and manufacturing yield of finished filters. Midstream consists of specialty optical manufacturers that process blue glass, apply multi-layer coatings, cut and finish filters to specification, and handle inspection and quality assurance. These companies differentiate through coating technology, process automation and ability to meet tight tolerances for customized applications. Downstream demand is driven by camera module assemblers, consumer electronics brands, medical device makers, industrial machine-vision integrators and automotive sensor suppliers, with the consumer electronics segment-particularly smartphone imaging-typically representing the largest share due to high unit volumes and performance requirements. Looking ahead, the future development of the blue glass infrared cutoff filter market is expected to be shaped by several technology and application trends. Ongoing miniaturization and higher optical performance demands in smartphones, autonomous vehicle sensors, AR/VR systems and advanced medical imaging will require thinner, higher-precision filters with improved visible-light transmission and sharper IR cut-off characteristics. Material and coating innovations, such as advanced dielectric layers and environmentally robust substrates, will be key to meeting these performance benchmarks. At the same time, market growth will be influenced by supply-chain optimization, regulatory compliance in safety-critical sectors, and regional shifts in manufacturing capacity. Asia-Pacific, North America and Europe are likely to remain important production and consumption hubs, with increasing integration of blue glass filters into compact, multi-functional optical modules and next-generation imaging systems driving sustained demand.

This report studies the global Blue Glass Infrared Cutoff Filter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Blue Glass Infrared Cutoff Filter 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 Blue Glass Infrared Cutoff Filter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Blue Glass Infrared Cutoff Filter total production and demand, 2021-2032, (K Pieces)

Global Blue Glass Infrared Cutoff Filter total production value, 2021-2032, (USD Million)

Global Blue Glass Infrared Cutoff Filter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pieces), (based on production site)

Global Blue Glass Infrared Cutoff Filter consumption by region & country, CAGR,

2021-2032 & (K Pieces)

U.S. VS China: Blue Glass Infrared Cutoff Filter domestic production, consumption, key domestic manufacturers and share

Global Blue Glass Infrared Cutoff Filter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pieces)

Global Blue Glass Infrared Cutoff Filter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pieces)

Global Blue Glass Infrared Cutoff Filter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pieces)

This report profiles key players in the global Blue Glass Infrared Cutoff Filter 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 Crystal-Optech, Hubei Wufang Photoelectric, AGC, Hubei Doti-Micro Technology, OPTRONTEC, Tanaka Engineering, Fineco Optics Technology, Murakami, Hermosa Optics, TAMA ELECTRONICS, 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 Blue Glass Infrared Cutoff Filter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pieces) and average price (US\$/Piece) 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 Blue Glass Infrared Cutoff Filter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Blue Glass Infrared Cutoff Filter Market, Segmentation by Type:

Pure Blue Glass

Coated Blue Glass

Global Blue Glass Infrared Cutoff Filter Market, Segmentation by Cut-off Wavelength:

Standard

Extended

Global Blue Glass Infrared Cutoff Filter Market, Segmentation by Transmission efficiency:

High-transmission

Moderate-transmission

Global Blue Glass Infrared Cutoff Filter Market, Segmentation by Application:

Cell Phone Camera

Computer Camera

Automotive Camera

Others

Companies Profiled:

Crystal-Optech

Hubei Wufang Photoelectric

AGC

Hubei Doti-Micro Technology

OPTRONTEC

Tanaka Engineering

Fineco Optics Technology

Murakami

Hermosa Optics

TAMA ELECTRONICS

Suzhou Qimeng Crystal Material

Hangzhou MDK Opto Electronics

ROCOES Electro-optics

Key Questions Answered:

1. How big is the global Blue Glass Infrared Cutoff Filter market?
2. What is the demand of the global Blue Glass Infrared Cutoff Filter market?
3. What is the year over year growth of the global Blue Glass Infrared Cutoff Filter market?

4. What is the production and production value of the global Blue Glass Infrared Cutoff Filter market?
5. Who are the key producers in the global Blue Glass Infrared Cutoff Filter market?
6. What are the growth factors driving the market demand?

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