

Global White Glass IR Cut-Off Filters Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global White Glass IR Cut-Off Filters market size is expected to reach \$ 219 million by 2032, rising at a market growth of 2.9% CAGR during the forecast period (2026-2032).

In 2025, global White Glass IR Cut-Off Filters production reached approximately 2.1 billion units, with an average global market price of around US\$82 per thousand units. White Glass IR Cut-Off Filters are optical filter components made from clear or colorless optical glass substrates with multilayer coating films designed to block or sharply attenuate infrared light while allowing visible light to pass through. Unlike blue glass IR cut-off filters, which rely partly on the absorption properties of blue glass material, white glass IR cut-off filters mainly achieve infrared blocking through optical coating technology.

The White Glass IR Cut-Off Filters market is an important segment of the optical filter and imaging component industry, mainly driven by the growing demand for accurate color reproduction, high-definition imaging, compact camera modules, and advanced optical sensing systems. White glass IR cut-off filters are made from clear or colorless optical glass substrates and achieve infrared blocking mainly through multilayer optical coating rather than glass absorption, allowing visible light to pass while reflecting or attenuating near-infrared wavelengths. They are widely used in smartphone cameras, digital cameras, surveillance cameras, automotive cameras, machine vision systems, medical imaging devices, optical sensors, and scientific instruments, where infrared interference may cause color deviation, reduced contrast, image blur, or unstable white balance. Market demand is closely related to the expansion of consumer electronics, security monitoring, automotive ADAS, industrial automation, and medical imaging applications. Industry sources generally classify IR-cut filters by type, including white

glass IRCF, blue glass IRCF, and other filter types, and by application, including cell phone cameras, computer cameras, automotive cameras, and other imaging systems. White glass IR cut-off filters are also commonly associated with photography, imaging devices, optical instruments, and scientific equipment, and major participants mentioned in market reports include Hoya, Schott, Isuzu Glass, AGC, Optrontec, OFILM, Zhejiang Quartz Crystal Optoelectronic, Sumita Optical Glass, and Hermosa Optics. From the upstream perspective, the industry relies on high-quality optical glass substrates, dielectric coating materials, coating targets, polishing materials, precision cutting equipment, cleaning equipment, vacuum coating machines, optical testing instruments, and cleanroom production environments. The quality of upstream glass and coating materials directly affects visible-light transmittance, infrared cut-off accuracy, surface flatness, coating uniformity, durability, and production yield. The midstream mainly consists of optical filter manufacturers and camera component suppliers, which carry out glass slicing, grinding, polishing, multilayer coating, dicing, cleaning, inspection, packaging, and customized product development according to different customer requirements. Their competitiveness depends on coating design capability, spectral control precision, miniaturization technology, high-volume manufacturing capacity, cost control, and stable quality consistency. Downstream customers include camera module manufacturers, smartphone OEMs, security camera producers, automotive camera suppliers, medical device companies, machine vision integrators, and optical equipment manufacturers. In industrial applications, IR-cut filters are used to protect sensors from unwanted wavelengths and improve image quality, while machine vision, traffic monitoring, and surveillance are also important application areas. Looking forward, the White Glass IR Cut-Off Filters market is expected to develop toward thinner substrates, higher visible-light transmission, lower reflection, sharper infrared cut-off edges, better coating reliability, and stronger compatibility with compact optical modules. Growth will be supported by multi-camera smartphones, high-resolution image sensors, AI imaging, AR/VR devices, automotive driver-assistance cameras, smart surveillance, medical diagnostics, and industrial vision systems. At the same time, manufacturers will face challenges from price competition, strict quality requirements, coating process complexity, and the need to balance optical performance with mass-production yield. As optical systems become smaller, smarter, and more integrated, white glass IR cut-off filters will remain a key component for improving imaging accuracy and sensor performance, with future opportunities concentrated in high-end camera modules, automotive imaging, precision sensing, and customized optical solutions.

This report studies the global White Glass IR Cut-Off Filters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for White Glass IR Cut-Off 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 White Glass IR Cut-Off Filters that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global White Glass IR Cut-Off Filters total production and demand, 2021-2032, (K Units)

Global White Glass IR Cut-Off Filters total production value, 2021-2032, (USD Million)

Global White Glass IR Cut-Off Filters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global White Glass IR Cut-Off Filters consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: White Glass IR Cut-Off Filters domestic production, consumption, key domestic manufacturers and share

Global White Glass IR Cut-Off Filters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global White Glass IR Cut-Off Filters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global White Glass IR Cut-Off Filters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global White Glass IR Cut-Off 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 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 White Glass IR Cut-Off Filters market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 White Glass IR Cut-Off Filters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global White Glass IR Cut-Off Filters Market, Segmentation by Type:

Single-side Coated

Double-side Coated

Global White Glass IR Cut-Off Filters Market, Segmentation by Cut-off Wavelength:

Standard

Extended

Global White Glass IR Cut-Off Filters Market, Segmentation by Transmission efficiency:

High-transmission

Moderate-transmission

Global White Glass IR Cut-Off Filters 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 White Glass IR Cut-Off Filters market?
2. What is the demand of the global White Glass IR Cut-Off Filters market?
3. What is the year over year growth of the global White Glass IR Cut-Off Filters market?
4. What is the production and production value of the global White Glass IR Cut-Off Filters market?
5. Who are the key producers in the global White Glass IR Cut-Off Filters market?
6. What are the growth factors driving the market demand?

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