

Global NIR Cut Filter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NIR Cut Filter market size is expected to reach \$ 1409 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

In 2025, global NIR Cut Filter production reached approximately 6.5 billion units, with an average global market price of around US\$167 per thousand units. An NIR Cut Filter, also known as a night vision filter or a cut-off filter, is a type of filter used in cameras and imaging devices to block infrared light while allowing visible light to pass through. This is important for improving the quality of images captured in low-light conditions or for reducing infrared contamination in images. The gross margin of NIR Cut Filters (used in cameras, smartphones, and other imaging devices to block infrared light) typically ranges from 25% to 40%, depending on manufacturer, technology level, and application.

The global NIR Cut Filter market has experienced significant growth due to the increasing demand for high-quality imaging in various applications, including mobile phones, digital cameras, security cameras, and automotive cameras. With the trend towards higher resolution cameras, especially in smartphones, the demand for NIR Cut Filters with better performance characteristics is rising. As artificial intelligence (AI) and machine learning are increasingly integrated into imaging systems, there is a growing need for high-quality NIR Cut Filters to support these advanced functionalities. There is an increasing emphasis on using environmentally friendly materials and sustainable production processes to manufacture NIR Cut Filters. The rise in the production of smartphones and tablets, which often include high-resolution cameras, has been a major driver for the NIR Cut Filter market. The expansion of security and surveillance systems, both in public and private sectors, has also driven the demand for NIR Cut Filters. The growing adoption of advanced driver-assistance systems (ADAS) and the

use of cameras in autonomous vehicles require high-quality NIR Cut Filters for optimal performance. The market is dominated by several key players who have established strong positions through innovation, product quality, and brand recognition. These players include companies like Asahi Glass, Hoya, and Schott. New entrants face barriers to entry due to the need for significant capital investment, advanced manufacturing techniques, and technical expertise. Asia-Pacific is the largest market for NIR Cut Filters due to the presence of major smartphone manufacturers and the rapid adoption of advanced imaging technologies. The market in North America is driven by the presence of high-tech companies and the adoption of security and surveillance systems. Europe also contributes significantly to the market, with a focus on automotive applications and advanced security systems. Overall, the NIR Cut Filter market is expected to continue growing, driven by technological advancements and the increasing use of imaging devices across various industries. However, companies will need to innovate and adapt to changing market dynamics to maintain their competitive edge. The NIR Cut Filter (infrared-cut filter) industry occupies a key position in the imaging and optical components value chain, serving as an essential element in cameras, smartphones, security systems, automotive vision, and industrial imaging devices by blocking unwanted infrared light while allowing visible wavelengths to pass. Upstream, the industry depends on high-quality optical glass substrates, thin-film deposition materials (such as metal oxides), adhesives, and precision cutting and polishing equipment. Midstream consists of filter manufacturers who apply multi-layer coatings using vacuum deposition, sputtering, or other advanced optical coating techniques, followed by precision dicing and assembly. Downstream, NIR Cut Filters are integrated into consumer electronics, CCTV cameras, machine vision systems, smartphones, drones, and automotive vision modules, which are all experiencing rapidly increasing demand due to higher image quality expectations and proliferation of smart devices. Growth opportunities in the industry are driven by several trends: the expansion of smartphone cameras and multi-camera systems, growing adoption in automotive ADAS and autonomous vehicles, increasing use in industrial machine vision, and rising demand for high-performance security and surveillance cameras. Technological advancements, such as higher transmission efficiency, reduced reflection, and miniaturized filter designs compatible with compact lens modules, create further business opportunities for suppliers with expertise in thin-film optical coatings and precision manufacturing. Additionally, the shift toward customized filters for AI imaging and low-light applications allows manufacturers to capture higher margins, while the ongoing growth of global imaging markets ensures sustained demand for NIR Cut Filter solutions.

This report studies the global NIR Cut Filter production, demand, key manufacturers,

and key regions.

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

Highlights and key features of the study

Global NIR Cut Filter total production and demand, 2021-2032, (K Units)

Global NIR Cut Filter total production value, 2021-2032, (USD Million)

Global NIR Cut Filter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global NIR Cut Filter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: NIR Cut Filter domestic production, consumption, key domestic manufacturers and share

Global NIR Cut Filter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global NIR Cut Filter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global NIR Cut Filter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global NIR Cut 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 NIR Cut Filter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/K 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 NIR Cut Filter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NIR Cut Filter Market, Segmentation by Type:

White Glass IRCF

Blue Glass IRCF

Others

Global NIR Cut Filter Market, Segmentation by Cut-off Wavelength:

Standard

Extended

Global NIR Cut Filter Market, Segmentation by Transmission efficiency:

High-transmission

Moderate-transmission

Global NIR Cut 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 NIR Cut Filter market?
2. What is the demand of the global NIR Cut Filter market?
3. What is the year over year growth of the global NIR Cut Filter market?
4. What is the production and production value of the global NIR Cut Filter market?
5. Who are the key producers in the global NIR Cut Filter market?
6. What are the growth factors driving the market demand?

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