

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

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## Abstracts

The global NIR Cutoff Filter market size is expected to reach \$ 1302 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

In 2025, global NIR Cutoff Filter production reached approximately 6 billion units, with an average global market price of around US\$167 per thousand units. NIR Cutoff Filter?Near-Infrared Cutoff Filter? is an optical filter designed to block or strongly attenuate near-infrared light while transmitting visible light. The near-infrared range usually starts just beyond the visible red region, commonly around 700 nm, and may extend to about 1,100 nm depending on the application.

The NIR Cutoff Filter market is a specialized but widely embedded segment of the optical components industry, serving the growing need for accurate visible-light imaging in devices that use CMOS and CCD sensors. A NIR cutoff filter is designed to transmit visible light while blocking near-infrared wavelengths, typically beginning around 650?750 nm and extending toward the silicon sensor response range near 1,100 nm; this function is important because silicon-based image sensors remain sensitive to near-infrared light, which can distort color reproduction and reduce image accuracy. Scientific and industrial references show that CMOS image sensors can retain NIR sensitivity up to about 1,100 nm, and many color cameras use IR-cut filters to suppress infrared light for more natural visible-light imaging. From a market-structure perspective, NIR cutoff filters are generally supplied as coated optical glass, absorptive glass, resin-based filters, or multilayer thin-film filters, and they may be sold as discrete components, integrated camera-module parts, switchable IR-cut assemblies, or customized spectral filters. Upstream, the industry depends on optical glass and resin substrates, coating materials, vacuum deposition and sputtering equipment, precision cutting and polishing, spectral testing instruments, and high-cleanliness assembly processes. Key technical

requirements include high visible transmittance, steep cutoff slope, low reflection, stable spectral shift under different incident angles, heat and humidity resistance, thinness for compact camera modules, and consistency across mass production. Midstream suppliers include optical filter manufacturers, precision coating companies, camera-module component suppliers, and customized optical solution providers, while downstream demand comes mainly from smartphones, notebook and tablet cameras, security cameras, smart-home cameras, automotive cameras, machine vision systems, medical and life-science imaging, drones, robotics, industrial inspection, and consumer digital imaging. In embedded vision and security cameras, IR-cut filters are especially important for day/night camera systems: during daytime, the filter is placed in the optical path to support accurate color imaging, while at night it may be removed or switched away so that infrared illumination can improve low-light visibility. The market is therefore shaped by two parallel trends: high-volume commoditization in consumer electronics and security cameras, and higher-value customization in automotive, industrial, medical, and scientific imaging. Future development will be driven by the expansion of multi-camera smartphones, smart security systems, driver-assistance and in-cabin automotive cameras, factory automation, AI vision, service robots, agricultural imaging, and edge vision devices. At the same time, product design is becoming more complex as RGB-IR sensors, multispectral imaging, structured-light sensing, facial recognition, and low-light imaging require more careful trade-offs between visible color fidelity and infrared sensitivity. For example, RGB-IR image-sensor technology is used to capture both visible RGB and infrared information in a single device, supporting day/night vision, smart-home security, facial recognition, and gesture-recognition functions. This does not eliminate the need for NIR control; rather, it pushes filter makers toward more precise spectral engineering, tunable IR-cut solutions, integrated filter arrays, and coatings optimized for specific sensor architectures. Competitive pressure will remain strong in standard camera-module filters, especially where cost, thickness, and yield are decisive, but suppliers with advanced coating capability, high-volume quality control, and customized optical design expertise will benefit from premium applications. Overall, the NIR Cutoff Filter market is expected to remain closely linked to the broader camera-module and machine-vision supply chain, with stable baseline demand from mass imaging devices and stronger value growth from automotive vision, industrial automation, smart security, medical imaging, and AI-enabled optical systems.

This report studies the global NIR Cutoff Filter production, demand, key manufacturers, and key regions.

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

#### Highlights and key features of the study

Global NIR Cutoff Filter total production and demand, 2021-2032, (K Pcs)

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

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

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

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

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

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

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

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

#### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 NIR Cutoff Filter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global NIR Cutoff Filter Market, Segmentation by Type:

White Glass IRCF

Blue Glass IRCF

Others

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

Standard

Extended

#### Global NIR Cutoff Filter Market, Segmentation by Transmission efficiency:

High-transmission

Moderate-transmission

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

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