

Global Smartphone IR-Cut Filters (IRCF) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smartphone IR-Cut Filters (IRCF) market size is expected to reach \$ 1220 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

In 2025, global Smartphone IR-Cut Filters (IRCF) production reached approximately 5.67 billion units, with an average global market price of around US\$165 per thousand units. Smartphone IR-Cut Filters (IRCF) are optical filter components used in smartphone camera modules to block or sharply attenuate infrared light while allowing visible light to pass through to the CMOS image sensor. Because image sensors are sensitive not only to visible light but also to near-infrared wavelengths, an IRCF is placed between the lens and the sensor to prevent infrared interference, improve color accuracy, reduce image distortion, and ensure that photos and videos appear closer to natural human vision.

The Smartphone IR-Cut Filters (IRCF) market is an important segment of the smartphone camera module supply chain, driven by the continuous upgrade of mobile imaging systems, including multi-camera designs, higher-resolution sensors, larger apertures, optical image stabilization, night photography, video recording, and computational photography. IRCFs are used between the lens and CMOS image sensor to block infrared light while allowing visible light to pass, helping smartphones achieve accurate color reproduction, better contrast, lower image noise, and more stable white balance under different lighting conditions. The upstream supply chain mainly includes optical glass, blue glass, resin substrates, coating materials, precision cutting and polishing equipment, vacuum coating equipment, and optical testing instruments; these materials and technologies determine the filter's spectral performance, thickness, durability, and consistency. The midstream consists of IRCF manufacturers and optical

component suppliers that process substrates, apply multilayer optical coatings, cut and assemble filters, and deliver customized products for different camera modules. The downstream includes camera module makers, smartphone OEMs, and consumer electronics brands, where demand is closely linked to smartphone shipment volume, the number of cameras per phone, and the specification upgrade of front, rear, ultra-wide, telephoto, macro, and depth-sensing cameras. In the future, the market is expected to develop toward thinner structures, higher light transmittance, lower reflection, better infrared cut-off precision, stronger environmental reliability, and better compatibility with compact and high-end camera modules. At the same time, the adoption of AI imaging, AR applications, high-pixel sensors, periscope lenses, and advanced night-shooting functions will further increase the technical requirements for IRCFs, encouraging manufacturers to improve coating processes, material selection, mass-production yield, and customized design capabilities. Overall, the Smartphone IRCF market will remain closely tied to smartphone camera innovation, with growth opportunities coming from camera performance upgrades, multi-camera penetration, and the shift toward higher-value optical components.

This report studies the global Smartphone IR-Cut Filters (IRCF) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smartphone IR-Cut Filters (IRCF) 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 Smartphone IR-Cut Filters (IRCF) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smartphone IR-Cut Filters (IRCF) total production and demand, 2021-2032, (M PCs)

Global Smartphone IR-Cut Filters (IRCF) total production value, 2021-2032, (USD Million)

Global Smartphone IR-Cut Filters (IRCF) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M PCs), (based on production site)

Global Smartphone IR-Cut Filters (IRCF) consumption by region & country, CAGR, 2021-2032 & (M PCs)

U.S. VS China: Smartphone IR-Cut Filters (IRCF) domestic production, consumption, key domestic manufacturers and share

Global Smartphone IR-Cut Filters (IRCF) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M PCs)

Global Smartphone IR-Cut Filters (IRCF) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M PCs)

Global Smartphone IR-Cut Filters (IRCF) production by Channel, production, value, CAGR, 2021-2032, (USD Million) & (M PCs)

This report profiles key players in the global Smartphone IR-Cut Filters (IRCF) 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 Smartphone IR-Cut Filters (IRCF) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M PCs) and average price (US\$/K PCs) by manufacturer, by Type, and by Channel. 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 Smartphone IR-Cut Filters (IRCF) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smartphone IR-Cut Filters (IRCF) Market, Segmentation by Type:

White Glass IR-Cut Filters (IRCF)

Blue Glass IR-Cut Filters (IRCF)

Others

Global Smartphone IR-Cut Filters (IRCF) Market, Segmentation by Cut-off Wavelength:

Standard

Extended

Global Smartphone IR-Cut Filters (IRCF) Market, Segmentation by Transmission efficiency:

High-transmission

Moderate-transmission

Global Smartphone IR-Cut Filters (IRCF) Market, Segmentation by Channel:

Online

Offline

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 Smartphone IR-Cut Filters (IRCF) market?
2. What is the demand of the global Smartphone IR-Cut Filters (IRCF) market?
3. What is the year over year growth of the global Smartphone IR-Cut Filters (IRCF) market?
4. What is the production and production value of the global Smartphone IR-Cut Filters (IRCF) market?
5. Who are the key producers in the global Smartphone IR-Cut Filters (IRCF) market?
6. What are the growth factors driving the market demand?

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