

Global Infrared Optics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Optics market size is expected to reach \$ 7750 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

In 2025, the global production of infrared optics reached approximately 4.53 million units, with an average global market price of around US\$1,000 per unit. In the same year, the global total production capacity of infrared optics reached 5.66 million units. The industry average gross profit margin of this product reached 32%. Infrared optical components are optical devices used in systems for the transmission, modulation, focusing, splitting, filtering, and detection of infrared optical signals. They primarily include infrared lenses, windows, filters, prisms, mirrors, optical lens assemblies, aspheric elements, and infrared crystal components. Because ordinary glass exhibits strong absorption in the mid- and far-infrared spectral ranges, infrared optical components are typically manufactured from specialized materials such as germanium (Ge), silicon (Si), zinc sulfide (ZnS), zinc selenide (ZnSe), calcium fluoride (CaF₂), magnesium fluoride (MgF₂), sapphire, and chalcogenide glass. By combining these materials with precision grinding, polishing, coating, and optomechanical design technologies, manufacturers achieve high transmittance, high stability, and low aberration. These components are widely used in fields such as infrared thermal imaging, night vision systems, LiDAR, aerospace, defense and military, industrial inspection, medical imaging, autonomous driving, intelligent manufacturing, and scientific research instruments; they serve as core optical components for infrared imaging systems and detection equipment.

The upstream segment of the infrared optical component industry chain primarily consists of suppliers of infrared optical materials, crystal materials, optical glass, and processing auxiliaries. Core raw materials include germanium, silicon, zinc selenide,

zinc sulfide, and fluoride crystals, alongside equipment for crystal growth and material purification, as well as optical coating materials. The midstream segment comprises manufacturers responsible for material cutting, precision grinding and polishing, ultra-precision machining, coating, testing, and component assembly; their products include infrared lenses, windows, filters, lens assemblies, and customized optical systems. The downstream segment involves applications in military equipment, aerospace, security surveillance, unmanned systems, automotive autonomous driving, industrial thermal inspection, medical diagnostics, and scientific research. Value within the industry chain is highly concentrated in areas such as the preparation of high-purity infrared materials, ultra-precision machining capabilities, multilayer infrared anti-reflective coating technology, and system-level optical design; high-end infrared lenses and complex optical assemblies in the midstream sector present particularly high technical barriers to entry.

Driven by the growing demand for AI-based vision, autonomous driving, robotics, intelligent manufacturing, aerospace, and the modernization of national defense, the infrared optical component industry continues to experience steady expansion. Short-wave infrared (SWIR), mid-wave infrared (MWIR), and long-wave infrared (LWIR) imaging technologies are continuously evolving toward miniaturization, higher resolution, and lower costs, driving rapid growth in the demand for infrared optical components. In the military sector, applications for high-performance infrared guidance, infrared search and track (IRST) systems, and unmanned platforms continue to expand; in the civilian sector, markets such as industrial thermal inspection, smart security, automotive night-vision driver assistance, and consumer-grade infrared sensors are emerging as new growth drivers. Meanwhile, fueled by domestic substitution, advancements in manufacturing technology, and the maturation of infrared material supply chains, companies in China, Japan, the United States, and Europe are strengthening their strategic positioning in high-end infrared optical components. Future industry competition will shift from mere component manufacturing to a contest of comprehensive capabilities spanning materials, precision machining, coating, and system integration.

This report studies the global Infrared Optics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Optics 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 Infrared Optics that contribute to its

increasing demand across many markets.

Highlights and key features of the study

Global Infrared Optics total production and demand, 2021-2032, (K Units)

Global Infrared Optics total production value, 2021-2032, (USD Million)

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

Global Infrared Optics consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Infrared Optics domestic production, consumption, key domestic manufacturers and share

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

Global Infrared Optics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Infrared Optics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Infrared Optics 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 Syntec Optics, Knight Optical, ULO Optics, Eoptik, Lattice Materials, Edmund Optics, Solaris Optics, Asphericon, Wavelength Opto-Electronic, IRD Ceramics, 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 Infrared Optics 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 Infrared Optics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Optics Market, Segmentation by Type:

Near-Infrared Optical Components

Mid-Infrared Optical Components

Far-Infrared Optical Components

Global Infrared Optics Market, Segmentation Product Functions:

Infrared Transmission Components

Infrared Imaging Components

Infrared Filtering Components

Infrared Reflective Components

Infrared Integrated Assemblies

Others

Global Infrared Optics Market, Segmentation Materials:

Germanium (Ge)

Silicon (Si)

ZnSe

ZnS

CaF₂

Chalcogenide Glass

Others

Global Infrared Optics Market, Segmentation by Application:

Military

Aerospace

Industrial Inspection

Automotive

Medical

Scientific Research

Others

Companies Profiled:

Syntec Optics

Knight Optical

ULO Optics

Ecoptik

Lattice Materials

Edmund Optics

Solaris Optics

Asphericon

Wavelength Opto-Electronic

IRD Ceramics

EKSMA Optics

Foctek

LightPath Technologies

Umicore N.V.

Jenoptik AG

Andover Corporation

Alkor Technologies

Thorlabs, Inc.

Vortex Optical Coatings Ltd

Key Questions Answered:

Global Infrared Optics Supply, Demand and Key Producers, 2026-2032

1. How big is the global Infrared Optics market?
2. What is the demand of the global Infrared Optics market?
3. What is the year over year growth of the global Infrared Optics market?
4. What is the production and production value of the global Infrared Optics market?
5. Who are the key producers in the global Infrared Optics market?
6. What are the growth factors driving the market demand?

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