

Global IR Optical Glass Market Growth 2026-2032

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Abstracts

The global IR Optical Glass market size is predicted to grow from US\$ 314 million in 2025 to US\$ 549 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 2032.

In 2024, global production of IR optical glass reached 220.24 tons, with an average selling price of US\$1,457 per kilogram. Global annual production capacity for IR optical glass was approximately 373 tons, with a gross profit margin of approximately 30.2%. IR optical glass refers to optical glass materials with transmittance properties in the infrared band, used to manufacture optical components (such as lenses, prisms, and windows) for infrared imaging, sensing, and laser systems. Unlike visible light glass, IR glass requires optimization of transmittance, refractive index, dispersion, and thermal stability in the near-infrared (NIR), mid-infrared (MIR), or far-infrared (FIR) bands, and presents greater challenges in manufacturing processes, humidity sensitivity, and cost. The upstream of the IR optical glass industry chain includes quartz sand, calcium carbonate, and zinc sulfide, the midstream consists of IR optical glass manufacturers, and the downstream mainly comprises industries such as military defense, security systems, and automobiles.

United States market for IR Optical Glass is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for IR Optical Glass is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for IR Optical Glass is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key IR Optical Glass players cover Umicore, Amorphous Materials, Vitron

Spezialwerkstoffe, CDGM Glass, Hubei New Huaguang, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “IR Optical Glass Industry Forecast” looks at past sales and reviews total world IR Optical Glass sales in 2025, providing a comprehensive analysis by region and market sector of projected IR Optical Glass sales for 2026 through 2032. With IR Optical Glass sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world IR Optical Glass industry.

This Insight Report provides a comprehensive analysis of the global IR Optical Glass landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on IR Optical Glass portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global IR Optical Glass market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for IR Optical Glass and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global IR Optical Glass.

This report presents a comprehensive overview, market shares, and growth opportunities of IR Optical Glass market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Chalcogenide Glass

Germanium

ZnSe and ZnS

Others

Segmentation by Composition:

Contains Germanium

Germanium-free

Segmentation by Visible Bands:

Mid-Wave Infrared Glass

Long-Wave Infrared Glass

Segmentation by Application:

Military and Defense

Security System

Automotive

Industrial

Medical and Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Umicore

Amorphous Materials

Vitron Spezialwerkstoffe

CDGM Glass

Hubei New Huaguang

VOT

LightPath Technologies

Schott

AGC

Corning

Ohara Corporation

Sumita Optical Glass

Crystran

Gabrielle

Key Questions Addressed in this Report

What is the 10-year outlook for the global IR Optical Glass market?

What factors are driving IR Optical Glass market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do IR Optical Glass market opportunities vary by end market size?

How does IR Optical Glass break out by Type, by Application?

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