

Global Infrared Lens (IR Lens) Market Growth 2025-2031

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Abstracts

The global Infrared Lens (IR Lens) market size is predicted to grow from US\$ 654 million in 2025 to US\$ 1012 million in 2031; it is expected to grow at a CAGR of 7.6% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Infrared lenses are used to collect, focus or collimate light in the near-infrared, short-wave infrared, medium-wave infrared or long-wave infrared spectrum. An Infrared Lens (IR Lens) is an optical lens that uses a specific substrate or anti-reflective coating to maximize performance in applications above 700nm, including thermal imaging, FLIR or spectroscopy.

Infrared Lens (IR Lens) are usually uncooled, so they have lower sensitivity, allowing users to see through dust or smoke, which makes them particularly valuable in certain environments and applications. The field of view of the lens is mainly determined by the focal length and the size of the detector. The infrared spectrum is often used in night vision equipment, thermal imaging cameras and other equipment that needs to detect heat distribution or work in the dark. Infrared lenses have a wide range of applications in security, military, medical and other fields.

In terms of consumption, Asia Pacific is currently the world's largest consumer market, accounting for 43.45% of market revenue in 2024, followed by North America and Europe, accounting for 35.30% and 16.41% respectively. In 2024, China accounted for 37.72% of the global market revenue share. It is expected that the compound growth

rate of the Chinese market will be 7.92% in the next six years, and the scale will reach \$408 million in 2031.

In the next few years, the important market position of the Asia-Pacific region will become more prominent. In addition to China, countries such as Japan will also play an important role. Next is North America and Europe. The price of products has been on a downward trend in the past few years. The threshold of the Infrared Lens (IR Lens) industry is high and requires certain production technology. At present, the main dominant companies are in the United States, Japan, Europe and China. New investment requires a lot of funds, and it is difficult for small companies to enter this industry. At present, it is mainly monopolized by companies in countries such as the United States, Japan, Europe and China. In 2024, these regions have accounted for 88.36% of the global market output share.

The main players in the Infrared Lens (IR Lens) market are Umicore, Ningbo Sunny Infrared Technology Co., Ltd., TAMRON, Ophir Optonics Solutions, Beijing Bluestar Technology Co., Ltd., and Northern Night Vision Technology Research Institute Group Co., Ltd. In 2024, the world's first-tier manufacturers are mainly Umicore and Ningbo Sunny Infrared Technology Co., Ltd., and the first echelon accounts for 20.38% of the market revenue share; the second-tier manufacturers are TAMRON, Ophir Optonics Solutions, Beijing Bluestar Technology Co., Ltd., Northern Night Vision Technology Research Institute Group Co., Ltd. and Kunming Full Wave Infrared Technology Co., Ltd., which account for a total of 22.41% of the market revenue share. Looking ahead, the price gap between different brands will narrow. Similarly, gross profit margins will fluctuate. Despite competition issues, investors remain optimistic about the field due to the lack of global recovery trends. There will still be more new investments entering the field in the future. For manufacturers that have already entered, they need to continuously raise the technical threshold to prevent more companies from entering. By reducing costs and lowering prices, they will quickly occupy the market, develop incremental customer markets, and establish market share advantages; establish a brand image and lay an advantage for entering the consumer goods market.

From the perspective of product type and technology, due to the impact of cost, fixed-focus Infrared Lens (IR Lens) are still the mainstream demand. Only after the cost drops significantly will zoom products gradually become mainstream products. From the perspective of product market application, the downstream industry is relatively mature and the market concentration is also high. The top ten suppliers occupy more than 50% of the market share.

LP Information, Inc. (LPI) ' newest research report, the “Infrared Lens (IR Lens) Industry Forecast” looks at past sales and reviews total world Infrared Lens (IR Lens) sales in 2024, providing a comprehensive analysis by region and market sector of projected Infrared Lens (IR Lens) sales for 2025 through 2031. With Infrared Lens (IR Lens) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Infrared Lens (IR Lens) industry.

This Insight Report provides a comprehensive analysis of the global Infrared Lens (IR Lens) 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 Infrared Lens (IR Lens) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Infrared Lens (IR Lens) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Lens (IR Lens) 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 Infrared Lens (IR Lens).

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Lens (IR Lens) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Prime Infrared Lens

Zoom Infrared Lens

Segmentation by Application:

Military & Defense

Security System

Automotive

Medical

Industrial & Public Safety

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 N.V./S.A.

Ningbo Sunny Infrared Technologies Co., Ltd. (Sunny Group)

TAMRON Co., Ltd.

Ophir Optronics Solutions Ltd.

Beijing Lenstech Science & Technology Co., Ltd.

North Night Vision Technology Research Institute Group Co., Ltd

Kunming Full-wave Infrared Technology Co., Ltd.

LightPath Technologies, Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Lens (IR Lens) market?

What factors are driving Infrared Lens (IR Lens) market growth, globally and by region?

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

How do Infrared Lens (IR Lens) market opportunities vary by end market size?

How does Infrared Lens (IR Lens) break out by Type, by Application?

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