

Global Long-Wave Infrared Continuous Zoom Lens Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Long-Wave Infrared Continuous Zoom Lens market size was valued at US\$ 234 million in 2025 and is forecast to a readjusted size of US\$ 307 million by 2032 with a CAGR of 3.3% during review period.

In 2025, the global production of long-wave infrared continuous zoom lenses reached 158,800 units, with an average selling price of USD 1,430 per unit. The global annual production capacity for long-wave infrared continuous zoom lenses is approximately 250,000 units, with a gross margin of about 27.3%. A long-wave infrared continuous zoom lens is a lens assembly used in long-wave infrared imaging systems, capable of achieving smooth and continuous zoom over a certain focal length range to accommodate imaging needs for targets at various distances. Long-wave infrared generally refers to the thermal imaging band with wavelengths in the range of 8-14 micrometers (μm). The upstream industry chain for long-wave infrared continuous zoom lenses includes lens materials, coating materials, and optical coupling components; the midstream sector consists of long-wave infrared continuous zoom lens manufacturers; and the downstream sectors are primarily security surveillance, military, and medical industries.

The long-wave infrared continuous zoom lens market is currently in a technology-driven growth phase, benefiting from the widespread application of thermal imaging in areas such as security surveillance, industrial inspection, border patrol, and outdoor observation. With their unique ability to smoothly switch between different focal lengths while balancing wide-field search and narrow-field recognition, these lenses are progressively becoming a core optical component in mid-to-high-end infrared imaging

systems. As precision optical processing, coating technologies, and mechanical structural design continue to improve, the imaging quality, environmental adaptability, and reliability of such products have been steadily enhanced, and their application scope has expanded from traditional military and professional security fields to civilian and commercial scenarios. At the same time, growing user demands for miniaturization, lightweight design, and cost reduction are driving ongoing innovation in optical design and manufacturing processes. Overall, the market outlook remains promising, and industry competition is shifting from basic functionality toward comprehensive performance optimization and customized solutions. Nevertheless, long-term stability under complex operating conditions such as extreme temperatures and strong vibrations still requires further improvement.

This report is a detailed and comprehensive analysis for global Long-Wave Infrared Continuous Zoom Lens market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Long-Wave Infrared Continuous Zoom Lens market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-Wave Infrared Continuous Zoom Lens market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-Wave Infrared Continuous Zoom Lens market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-Wave Infrared Continuous Zoom Lens market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Long-Wave Infrared Continuous Zoom Lens Market 2026 by Manufacturers, Regions, Type and Application, Fo...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Long-Wave Infrared Continuous Zoom Lens

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Long-Wave Infrared Continuous Zoom Lens market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ophir Optronics, Northern Night Vision Technology Research Institute Group, LEAD IR, QUANHOM, Clear Align, JIR, MKS Inc., Teledyne FLIR, RICOM, WAVE OPTICS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Long-Wave Infrared Continuous Zoom Lens market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Germanium Lens

Cyanide Glass Lens

Zinc Selenide Lens

Market segment by Zoom Method

Electric

Manual

Market segment by Athermidation-Free Design

Athermidation-Free Lens

Non-athermidation-Free Lens

Market segment by Focal Length Range

15~75mm

20~200mm

30?300 mm and Above

Market segment by Application

Security Monitoring

Military

Industrial

Medical

Others

Major players covered

Ophir Optronics

Northern Night Vision Technology Research Institute Group

LEAD IR

QUANHOM

Clear Align

JIR

MKS Inc.

Teledyne FLIR

RICOM

WAVE OPTICS

Tamron

Goyo

Kowa

Myutron

LENSTECHS

Umicore

VOT

Nanjing Cngeir Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Long-Wave Infrared Continuous Zoom Lens product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Long-Wave Infrared Continuous Zoom Lens, with price, sales quantity, revenue, and global market share of Long-Wave Infrared Continuous Zoom Lens from 2021 to 2026.

Chapter 3, the Long-Wave Infrared Continuous Zoom Lens competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Long-Wave Infrared Continuous Zoom Lens breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Long-Wave Infrared Continuous Zoom Lens market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Long-Wave Infrared Continuous Zoom Lens.

Chapter 14 and 15, to describe Long-Wave Infrared Continuous Zoom Lens sales channel, distributors, customers, research findings and conclusion.

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