

Global Long-Wave Infrared Continuous Zoom Lens Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Long-Wave Infrared Continuous Zoom Lens market size is expected to reach \$ 307 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

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 studies the global Long-Wave Infrared Continuous Zoom Lens production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Long-Wave Infrared Continuous Zoom Lens 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 Long-Wave Infrared Continuous Zoom Lens that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Long-Wave Infrared Continuous Zoom Lens total production and demand, 2021-2032, (K Units)

Global Long-Wave Infrared Continuous Zoom Lens total production value, 2021-2032, (USD Million)

Global Long-Wave Infrared Continuous Zoom Lens production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Long-Wave Infrared Continuous Zoom Lens consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Long-Wave Infrared Continuous Zoom Lens domestic production, consumption, key domestic manufacturers and share

Global Long-Wave Infrared Continuous Zoom Lens production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Long-Wave Infrared Continuous Zoom Lens production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Long-Wave Infrared Continuous Zoom Lens production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Long-Wave Infrared Continuous Zoom

Lens 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Long-Wave Infrared Continuous Zoom Lens 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 Long-Wave Infrared Continuous Zoom Lens Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Long-Wave Infrared Continuous Zoom Lens Market, Segmentation by Type:

Germanium Lens

Cyanide Glass Lens

Zinc Selenide Lens

Global Long-Wave Infrared Continuous Zoom Lens Market, Segmentation by Zoom Method:

Electric

Manual

Global Long-Wave Infrared Continuous Zoom Lens Market, Segmentation by Athermidation-Free Design:

Athermidation-Free Lens

Non-athermidation-Free Lens

Global Long-Wave Infrared Continuous Zoom Lens Market, Segmentation by Focal Length Range:

15~75mm

20~200mm

30?300 mm and Above

Global Long-Wave Infrared Continuous Zoom Lens Market, Segmentation by Application:

Security Monitoring

Military

Industrial

Medical

Others

Companies Profiled:

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

Key Questions Answered:

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

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