

Global Cooled LWIR Lenses 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 Cooled LWIR Lenses market size was valued at US\$ 1232 million in 2025 and is forecast to a readjusted size of US\$ 2064 million by 2032 with a CAGR of 7.6% during review period.

In 2025, global sales of Cooled LWIR Lenses reached approximately 42,000 units, with an average selling price of US\$28,500 per unit. Cooled LWIR Lenses are high-end optical devices operating in the 8–12 μm band and utilizing cryogenic coolers to enhance detector sensitivity. They are widely used in high-end thermal imaging systems, defense reconnaissance, aerospace monitoring, border security, and industrial inspection. Upstream raw materials mainly include high-transmittance infrared optical glass or crystals (such as ZnSe, Ge, Si), cryogenic coolers, precision mechanical structural components, and electronic control modules. Downstream suppliers primarily serve manufacturers of defense, aerospace, security monitoring, and industrial thermal imaging equipment. Global total production capacity in 2025 was approximately 48,000 units, with an industry average capacity utilization rate of approximately 87% and an overall gross margin of approximately 35%. Demand and opportunity analysis indicates that with the increasing demand for high-resolution infrared imaging, the expansion of drone and nighttime surveillance applications, and the growth of the industrial online inspection and precision temperature control markets, cooled long-wave infrared lenses have continued growth potential in high-end optoelectronic systems. Future development directions lie in lighter weight, higher light transmittance, low power consumption cooling, and integrated design with AI analysis and multi-band fusion to meet the high-performance requirements of military, aerospace and industrial intelligence.

The market for Cooled LWIR Lenses is currently in a phase of high-end development and expansion into multiple application scenarios. Its growth is primarily driven by the rigid demand for all-weather, high-sensitivity thermal imaging in defense, aerospace, border security, and high-precision industrial inspection. Compared to uncooled infrared lenses, cooled long-wave infrared lenses, with their lower noise levels and higher detection sensitivity, have become core components of high-resolution infrared systems. Their applications are no longer limited to military equipment but are gradually penetrating into drone thermal imaging, industrial online inspection, and intelligent monitoring.

Future market competition will focus on optical material transmittance, cooling efficiency, lens miniaturization, low power consumption, and integration with AI and multi-band fusion capabilities. High-performance, high-reliability products will gain stronger pricing power. With the increasing global demand for security and control, intelligent manufacturing, and industrial automation, the cooled long-wave infrared lens market has long-term stable growth potential. Meanwhile, the trends of high-end development and functional integration will provide companies with strategic opportunities for technological barriers and value-added services.

This report is a detailed and comprehensive analysis for global Cooled LWIR Lenses 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 Cooled LWIR Lenses market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cooled LWIR Lenses 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 Cooled LWIR Lenses 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 Cooled LWIR Lenses 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:

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

To assess the growth potential for Cooled LWIR Lenses

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 Cooled LWIR Lenses 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 Nanjing Cngeir Technology Co.,Ltd., Wuhan Guide, Temmek Optics Ltd., Shape Optics technologies Pte Ltd, Quanhom, Henguangruiyuan, Ophir Optronics Solutions, Hyperion Optics, WTDS Optics, Infiniti Electro-Optics, etc.

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

Market Segmentation

Cooled LWIR Lenses 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

Indium Antimonide (InSb) Lens

Mercury Cadmium Telluride (MCT) Lens

Others

Market segment by Cooling Method

Stirling Chiller (Integrated)

Throttling Refrigeration

Others

Market segment by Focal Length Range

Focal Length Range: 15mm-50mm

Focal Length Range: 50mm-100mm

Focal Length Range: 100mm-500mm+

Market segment by Application

Military

Security

Electric Power Inspection

Others

Major players covered

Nanjing Cngeir Technology Co.,Ltd.

Wuhan Guide

Temmek Optics Ltd.

Shape Optics technologies Pte Ltd

Quanhom

Heguanguiyuan

Ophir Optronics Solutions

Hyperion Optics

WTDS Optics

Infiniti Electro-Optics

Delta Photonics

TONGHAO

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 Cooled LWIR Lenses product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cooled LWIR Lenses, with price, sales quantity, revenue, and global market share of Cooled LWIR Lenses from 2021 to 2026.

Chapter 3, the Cooled LWIR Lenses competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cooled LWIR Lenses 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 Cooled LWIR Lenses 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 Cooled LWIR Lenses.

Chapter 14 and 15, to describe Cooled LWIR Lenses sales channel, distributors, customers, research findings and conclusion.

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