

# Global Long Wavelength Infrared (LWIR) Cameras and Core Modules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Long Wavelength Infrared (LWIR) Cameras and Core Modules market size was valued at US\$ 658 million in 2024 and is forecast to a readjusted size of USD 927 million by 2031 with a CAGR of 5.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Long-wave infrared (LWIR) has a wavelength range of 8 to 14 micrometers. A long wavelength infrared camera is a device capable of receiving and capturing long-wave infrared radiation, converting it into visible images or video signals. It primarily performs thermal imaging by utilizing the long-wave infrared radiation emitted by objects themselves, being sensitive to temperature changes and capable of operating in completely dark environments. The long wavelength infrared module is its core component, mainly consisting of a long-wave infrared detector and circuit structure, which processes the received signals and communicates and transmits them with external devices.

This report is a detailed and comprehensive analysis for global Long Wavelength Infrared (LWIR) Cameras and Core Modules 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 Wavelength Infrared (LWIR) Cameras and Core Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Long Wavelength Infrared (LWIR) Cameras and Core Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Long Wavelength Infrared (LWIR) Cameras and Core Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Long Wavelength Infrared (LWIR) Cameras and Core Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

#### 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 Long Wavelength Infrared (LWIR) Cameras and Core Modules
- 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 Wavelength Infrared (LWIR) Cameras and Core Modules 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 Exosens, Teledyne FLIR LLC, Silent Sentinel, Vision Datum, Axiom Optics, Tempsens Instrument Pvt. Ltd., Underwater Thruster, Excelitas Technologies Corp., InfraTec GmbH, Quantum Design Inc., etc.

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

## Market Segmentation

Long Wavelength Infrared (LWIR) Cameras and Core Modules market is split by Type and by Application. For the period 2020-2031, 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

Cooled

Uncooled

### Market segment by Application

Security Monitoring

Temperature Detection

Military

Others

### Major players covered

Exosens

Teledyne FLIR LLC

Silent Sentinel

Vision Datum

Axiom Optics

Tempens Instrument Pvt. Ltd.

Underwater Thruster

Excelitas Technologies Corp.

InfraTec GmbH

Quantum Design Inc.

Sierra-Olympia Tech

GSTiR

Beijing FJR Opto-electronic Technology Co., Ltd.

DALI Technology

North Night Vision Science & Technology (Nanjing) Research Institute Co., Ltd.

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 Wavelength Infrared (LWIR) Cameras and Core Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Long Wavelength Infrared (LWIR) Cameras and Core Modules, with price, sales quantity, revenue, and global market share of Long Wavelength Infrared (LWIR) Cameras and Core Modules from 2020 to 2025.

Chapter 3, the Long Wavelength Infrared (LWIR) Cameras and Core Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Long Wavelength Infrared (LWIR) Cameras and Core Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Long Wavelength Infrared (LWIR) Cameras and Core Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Wavelength Infrared (LWIR) Cameras and Core Modules.

Chapter 14 and 15, to describe Long Wavelength Infrared (LWIR) Cameras and Core Modules sales channel, distributors, customers, research findings and conclusion.

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