

# Global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G09E0E2F83EAEN.html>

Date: May 2024

Pages: 164

Price: US\$ 3,480.00 (Single User License)

ID: G09E0E2F83EAEN

## Abstracts

8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics are specially designed for the long-wave infrared (LWIR) band and are mainly used in thermal imaging, night vision, long-range monitoring, gas detection and military fields. These optics are capable of capturing and processing infrared radiation in the 8 to 14 micron wavelength range, a range that is particularly effective for observing and analyzing thermal radiation in the environment. They are usually made of special materials, such as germanium, zinc sulfide or cadmium telluride, which have high transmittance for long-wave infrared radiation. Longwave infrared optics provide clear images in no-light or low-light conditions and are critical for improving visibility at night and in adverse weather conditions.

According to our (Global Info Research) latest study, the global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market size was valued at US\$ million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of %during review period.

This report is a detailed and comprehensive analysis for global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics 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 2024, are provided.

Key Features:

Global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market size and forecasts, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

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 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics

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 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics 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 Edmund Optics, Jenoptik, Alkor Technologies, Solaris Optics, Syntec Optics, Lattice Materials, LightPath Technologies, Thorlabs, Asphericon, Wavelength Opto-Electronic, etc.

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

Market Segmentation

8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market is split by Type and by Application. For the period 2019-2030, 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

Infrared Lens

Infrared Filters

Others

#### Market segment by Application

Security and Surveillance

Military Reconnaissance

Environmental Monitoring

Others

#### Major players covered

Edmund Optics

Jenoptik

Alkor Technologies

Solaris Optics

Syntec Optics

Lattice Materials

LightPath Technologies

Thorlabs

Asphericon

Wavelength Opto-Electronic

IRD Ceramics

Nanjing Wavelength Opto-Electronic

Shanghai Optics

CLZ Precision Optics

EKSMA Optics

Noni

Avantier

Shalom EO

Esco Optics

OPCO Laboratory

Galvoptics

Crystal-Optech

Optrontec

Viavi Solutions

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 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics, with price, sales quantity, revenue, and global market share of 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics from 2019 to 2024.

Chapter 3, the 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics.

Chapter 14 and 15, to describe 8 $\mu$ m - 14 $\mu$ m Longwave Infrared Optics sales channel, distributors, customers, research findings and conclusion.

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