

Global Mid-IR Laser Crystal 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 Mid-IR Laser Crystal market size was valued at US\$ 489 million in 2024 and is forecast to a readjusted size of USD 720 million by 2031 with a CAGR of 5.8% during review period.

For mid-infrared (and partly also terahertz) generation, one requires crystal materials with a transparency range extending far into the infrared spectral region. The most important of these media are zinc germanium diphosphide (ZGP, ZnGeP_2), silver gallium sulfide and selenide (AgGaS_2 and AgGaSe_2), gallium selenide (GaSe), and cadmium selenide (CdSe). Gallium arsenide (GaAs) has also become useful for mid-infrared applications, since it is possible to obtain quasi-phase matching in orientation-patterned GaAs . There are also various barium-based crystal materials such as BaGa_4S_7 , BaGa_4Se_7 , $\text{BaGa}_2\text{GeS}_6$ and $\text{BaGa}_2\text{GeSe}_6$.

According to our research, the global Electronic Components market is approximately USD 466.61 billion in 2022. The Asia-Pacific region is a major market for electronic components. The downstream application fields of the electronic components industry are extensive, including communication equipment, consumer electronics, automotive electronics, smart home, industrial control, military security and other fields. Unlike the strong industry demand in 2021, downstream industry demand in 2022 showed a differentiated trend. The demand for traditional electronic applications represented by mobile phones and computers has turned weak, which has a greater impact on the demand of the entire industry; the demand for communication equipment and data centers has maintained growth but slowed down, and the industrial and Internet of Things driven by digital transformation and the development of artificial intelligence technology. The steady growth of application demand and the accelerated development

of the new energy vehicle market can offset the decline in some consumer markets and provide support for long-term demand growth.

This report is a detailed and comprehensive analysis for global Mid-IR Laser Crystal 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 Mid-IR Laser Crystal market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Mid-IR Laser Crystal 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 Mid-IR Laser Crystal 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 Mid-IR Laser Crystal 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 Mid-IR Laser Crystal
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Mid-IR Laser Crystal 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 IPG Photonics, Del Mar Photonics, BAE Systems, OptoCity, II-VI Incorporated, Inrad Optics, X-Z LAB, Shalom EO, 4Lasers,

Newlight Photonics, etc.

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

Market Segmentation

Mid-IR Laser Crystal 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

Zinc Germanium Diphosphide

Silver Gallium Sulfide And Selenide (AgGaS₂ and AgGaSe₂)

Gallium Selenide (GaSe)

Cadmium Selenide (CdSe)

Others

Market segment by Application

Aerospace and Defense

Healthcare

Chemical

Research

Others

Major players covered

IPG Photonics

Del Mar Photonics

BAE Systems

OptoCity

II-VI Incorporated

Inrad Optics

X-Z LAB

Shalom EO

4Lasers

Newlight Photonics

Stanford Advanced Materials

G and H Photonics

3photon

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 Mid-IR Laser Crystal product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mid-IR Laser Crystal, with price, sales quantity, revenue, and global market share of Mid-IR Laser Crystal from 2020 to 2025.

Chapter 3, the Mid-IR Laser Crystal competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mid-IR Laser Crystal 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 Mid-IR Laser Crystal 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 Mid-IR Laser Crystal.

Chapter 14 and 15, to describe Mid-IR Laser Crystal sales channel, distributors, customers, research findings and conclusion.

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