

Global Mid-infrared Laser Gas Analyzer 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-infrared Laser Gas Analyzer market size was valued at US\$ 513 million in 2024 and is forecast to a readjusted size of USD 608 million by 2031 with a CAGR of 2.5% 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.

Mid-infrared laser gas analyzer is a gas analysis instrument that uses mid-infrared lasers (such as quantum cascade lasers) as light sources. It uses the characteristics of gas molecules having strong absorption peaks in the mid-infrared band to determine the concentration of the gas by measuring the selective absorption of laser by the gas. This instrument usually has the characteristics of high precision, high sensitivity and high resolution, and can monitor the changes of various gas components in real time.

With the continuous development of laser technology and spectroscopy technology, the performance of mid-infrared laser gas analyzers will continue to improve. For example, by optimizing the design of the laser and improving the spectral resolution, the sensitivity and accuracy of the analyzer can be further improved. The application areas of mid-infrared laser gas analyzers are constantly expanding. In addition to traditional industrial, environmental protection and scientific research fields, they can also be expanded to emerging fields such as food safety and medical diagnosis. The growing demand for gas analysis in these fields provides a broad market space for the development of mid-infrared laser gas analyzers.

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

Global Mid-infrared Laser Gas Analyzer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Mid-infrared Laser Gas Analyzer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Mid-infrared Laser Gas Analyzer market shares of main players, shipments in revenue (\$ Million), sales quantity (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-infrared Laser Gas Analyzer
- 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 Mid-infrared Laser Gas Analyzer 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 CNA Analytical Technologies, Aunion Tech, Yiwin, Kangtum, YOKOGAWA, Thermo Fisher Scientific, Aeris Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Mid-infrared Laser Gas Analyzer 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

Industrial Analyzer

Environmental Analyzer

Scientific Research Analyzer

Market segment by Application

Petrochemicals

Environmental Monitoring

Life Sciences

Others

Major players covered

CNA Analytical Technologies

Aunion Tech

Yiwin

Kangtum

YOKOGAWA

Thermo Fisher Scientific

Aeris Technologies

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-infrared Laser Gas Analyzer product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Mid-infrared Laser Gas Analyzer 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-infrared Laser Gas Analyzer 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-infrared Laser Gas Analyzer.

Chapter 14 and 15, to describe Mid-infrared Laser Gas Analyzer sales channel, distributors, customers, research findings and conclusion.

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