

Global Infrared Picosecond Laser Market Growth 2025-2031

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Abstracts

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The global Infrared Picosecond Laser market size is predicted to grow from US\$ 507 million in 2025 to US\$ 631 million in 2031; it is expected to grow at a CAGR of 3.7% from 2025 to 2031.

Infrared picosecond laser is a laser that emits ultrashort pulse light in the infrared band (usually in the range of 700 nm to 2500 nm), with a pulse duration in the picosecond range (10⁻¹² seconds). It has the characteristics of high peak power, short pulse width and high repetition rate, and is widely used in precision machining, bio-imaging, spectral analysis and nonlinear optics, especially in scenes requiring high temporal resolution and low thermal impact.

United States market for Infrared Picosecond Laser is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Infrared Picosecond Laser is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Infrared Picosecond Laser is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Infrared Picosecond Laser players cover IPG Photonics, MKS Instruments, Trumpf, Coherent, Light Conversion, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Infrared Picosecond Laser Industry Forecast” looks at past sales and reviews total world Infrared Picosecond Laser sales in 2024, providing a comprehensive analysis by region and market sector of projected Infrared Picosecond Laser sales for 2025 through 2031. With Infrared Picosecond Laser sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Infrared Picosecond Laser industry.

This Insight Report provides a comprehensive analysis of the global Infrared Picosecond Laser landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Infrared Picosecond Laser portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Infrared Picosecond Laser market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Picosecond Laser and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Infrared Picosecond Laser.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Picosecond Laser market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Solid-State Lasers

Fiber Lasers

Semiconductor Lasers

Segmentation by Application:

Medical Industry

Communications Industry

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

IPG Photonics

MKS Instruments

Trumpf

Coherent

Light Conversion

NKT Photonics

Wuhan Qizhi Laser Technology

Guangdong Guozhi Laser Technology

Wuhan Huaray Precision Laser

PulseX Laser Technology

Anhui Huachuang Hongdu Optoelectronics Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Picosecond Laser market?

What factors are driving Infrared Picosecond Laser market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Infrared Picosecond Laser market opportunities vary by end market size?

How does Infrared Picosecond Laser break out by Type, by Application?

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