

Global Ultrafast Picosecond Laser Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ultrafast Picosecond Laser market size was valued at US\$ 507 million in 2025 and is forecast to a readjusted size of US\$ 957 million by 2032 with a CAGR of 9.5% during review period.

In 2025, global Ultrafast Picosecond Laser production reached approximately 1.1k units, with an average global market price of around US\$430k per unit.

Ultrafast picosecond lasers generate ultrashort pulses in the picosecond (10^{-12} s) regime, enabling energy deposition on materials within extremely short timescales for low heat-affected-zone precision processing and material modification. Compared with nanosecond lasers, picosecond sources typically deliver cleaner edges and reduced thermal damage in micromachining of glass, sapphire, ceramics, polymers, and thin films (e.g., drilling, cutting, surface texturing, black marking). Versus femtosecond systems, picosecond lasers often offer a favorable balance of industrial maturity and cost-per-part, making them widely adopted in consumer electronics, display, semiconductor, and medical-device manufacturing.

The upstream supply chain includes pump sources and electro-optic components (high-power pump diodes/fiber components), gain media and nonlinear/harmonic crystals (enabling 1030/1064 nm fundamental and frequency-converted outputs such as 532/515 nm and 355/343 nm), high-damage-threshold optics (mirrors, polarizers, isolators, beam expansion and scanning optics), thermal management and power electronics, plus control/communication interfaces. Midstream comprises laser OEMs and industrial ultrafast platforms offering multi-wavelength high-power picosecond outputs (e.g., Coherent HyperRapid NXT at 1064/532/355 nm) and industrial ultrashort-

pulse platforms covering 1030/515/343/257 nm with picosecond pulse options (e.g., TRUMPF TruMicro) . Downstream demand is driven by semiconductor/advanced packaging, display & glass processing, PV, 3C precision manufacturing, medical devices, and high-precision marking?typically delivered as turnkey laser micromachining systems integrated with scanners/stages, vision, and process control.

This report is a detailed and comprehensive analysis for global Ultrafast Picosecond Laser 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 Ultrafast Picosecond Laser market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultrafast Picosecond Laser market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultrafast Picosecond Laser market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultrafast Picosecond Laser market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Ultrafast Picosecond Laser

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 Ultrafast Picosecond Laser 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, TOPTICA Photonics, Fluence Technology, Calmar Laser, H?BNER Photonics, Thorlabs, NKT Photonics, Spectra-Physics, IMRA America, Jenoptik, etc.

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

Market Segmentation

Ultrafast Picosecond Laser market is split by Type and by Application. For the period 2021-2032, 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

257 nm / 266 nm

343 nm / 355 nm

515 nm / 532 nm

1030 nm / 1064 nm

Others

Market segment by Average Power

5W ? 20W

20W ? 60W

60W ? 150W

150W ? 500W

500W ? 1kW

? 1kW

Market segment by Application

Semiconductor

Industrial Machinery

Medical Devices

Aerospace

Scientific Research Experiment

Others

Major players covered

IPG Photonics

TOPTICA Photonics

Fluence Technology

Calmar Laser

H?BNER Photonics

Thorlabs

NKT Photonics

Spectra-Physics

IMRA America

Jenoptik

Coherent

Ekspla

Amplitude Laser

Menlo Systems

TRUMPF

Spark Lasers

Huaray Laser

Hans Laser

Yangtze Soton Laser

JENOPTIK Laser

Pacos Laser

Y-LASER

Keyun Laser

Precilasers Technology

Weikai Photonics

Ultron Photonics

BWT BJ

Zolix

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 Ultrafast Picosecond Laser product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultrafast Picosecond Laser, with price, sales quantity, revenue, and global market share of Ultrafast Picosecond Laser from 2021 to 2026.

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

Chapter 4, the Ultrafast Picosecond Laser breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Ultrafast Picosecond Laser market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Ultrafast Picosecond Laser.

Chapter 14 and 15, to describe Ultrafast Picosecond Laser sales channel, distributors, customers, research findings and conclusion.

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