+357 96 030922
info@marketpublishers.com

Global DUV Lasers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GE52DF3E032EEN.html
Date: January 2026
Pages: 92
Price: US$ 3,480.00 (Single User License)
ID: GE52DF3E032EEN

Abstracts

According to our (Global Info Research) latest study, the global DUV Lasers market size was valued at US$ 1029 million in 2025 and is forecast to a readjusted size of US$ 1808 million by 2032 with a CAGR of 8.8% during review period.

A deep ultraviolet (deep UV, DUV) laser is a type of laser that emits light in the deep ultraviolet region of the electromagnetic spectrum, which typically ranges from around 100 nanometers (nm) to 300 nm in wavelength. This region of the spectrum is often referred to as 'deep UV' because it encompasses shorter wavelengths than those found in the visible and near-ultraviolet regions. Deep UV Lasers have a variety of scientific, industrial, and technological applications.

In 2025, global DUV lasers production reached approximately 2,516 units, with an average global market price of around US$ 397.4 K per unit.

In the upstream supply chain of DUV lasers, nonlinear optical crystals and voice coil motors (VCMs) are two representative component categories that directly support wavelength conversion, beam conditioning, and precision motion/control functions in DUV laser subsystems. For nonlinear optical crystals?used in frequency conversion and harmonic generation?representative suppliers include Eksma Optics, Hangzhou Shalom EO, CASTECH, Kogakugiken Corp, Coherent, and OXIDE. For voice coil motors?commonly adopted in fine positioning, fast steering, focusing, and high-response opto-mechatronic modules within laser and optics assemblies?representative suppliers include OXIDE, Geeplus, Thorlabs, and Moticont. Together, these suppliers illustrate the specialized and precision-oriented upstream ecosystem that supports DUV laser performance in stability, accuracy, and system integration.

+357 96 030922
info@marketpublishers.com

Downstream applications are typically grouped into Semiconductor, Research and Development, and Other applications. In semiconductors, DUV lasers are used as core light sources for DUV lithography-related systems (notably excimer-based light sources) and also in inspection/metrology, reticle/wafer processing, and certain micromachining steps where deep-UV interaction is advantageous. Typical customer ecosystems include lithography and light-source value chains and major semiconductor manufacturers, such as ASML (Cymer), Gigaphoton, Nikon, Canon, and leading fabs/IDMs including TSMC, Samsung Electronics, Intel, SK hynix, and Micron. In R&D, customers include national laboratories, universities, and research institutes (and their instrument integrators) using DUV in spectroscopy, photochemistry, and advanced materials research. Other applications commonly flow through laser system integrators into precision micromachining, electronics manufacturing, and specialty industrial processes.

In terms of gross margin, DUV lasers are generally high-value and high-complexity products, gross margins for DUV-laser businesses are commonly around 30%?60%.

Deep ultraviolet (DUV) lasers are laser sources that emit in the deep-UV band and are widely adopted in precision processes where short-wavelength photons enable higher resolution, stronger material absorption, and tighter process windows than visible or near-UV solutions. In commercial practice, DUV lasers are deployed both as stand-alone light sources and as embedded subsystems inside advanced tools, with performance requirements typically defined by wavelength stability, dose/energy stability, uptime, and contamination control. The market is structurally shaped by two core product forms?continuous-wave (CW) lasers and pulsed lasers?each aligned to distinct operating needs and integration architectures, while sharing the common value proposition of enabling high-precision, high-yield manufacturing and high-sensitivity scientific experimentation.

From a product-type perspective, the DUV laser market is dominated by pulsed platforms. In 2025, Pulse Laser products accounted for approximately 91% of the global market, reflecting the prevalence of pulsed operation in semiconductor exposure light sources, inspection and metrology workflows, and high-peak-power industrial and laboratory processes that benefit from time-gated energy delivery. CW Laser products represent the remaining share and are typically selected where continuous irradiation, steady-state power delivery, or simplified temporal control is prioritized. The dominance of pulsed systems also reflects their scalability into higher energy and repetition-rate regimes and their strong fit with mature excimer and frequency-converted architectures that have become deeply embedded in semiconductor tool ecosystems.

+357 96 030922
info@marketpublishers.com

From an application perspective, Semiconductor is the clear demand center for DUV lasers. In 2025, Semiconductor applications represented approximately 76% of global market share, underpinned by DUV lithography-related light sources and a broader set of semiconductor manufacturing steps that rely on deep-UV interaction for precision and throughput. Research and Development forms the secondary pillar, encompassing universities, national laboratories, and corporate R&D teams using DUV lasers in spectroscopy, photochemistry, advanced materials, and life-science instrumentation. Other Applications comprise a smaller but diverse tail of industrial uses, including specialized micromachining and niche optical processes. Geographically, Asia-Pacific is the largest consumption region, representing about 45% of global revenue in 2025, consistent with the region?s concentration of semiconductor manufacturing capacity, electronics supply chains, and expanding applied research infrastructure.

Market growth is primarily driven by the continuing scaling and complexity of semiconductor manufacturing, where DUV lasers remain critical across multiple nodes of the process flow and where tool performance requirements increasingly favor high-stability, high-uptime light sources. The push for higher productivity and yield in advanced fabs, combined with ongoing capacity additions and technology upgrades in Asia-Pacific, strengthens replacement and expansion demand for DUV laser subsystems. In parallel, rising investment in research infrastructure and the acceleration of deep-UV-enabled analytical techniques support incremental demand outside pure semiconductor manufacturing. Additional momentum comes from end users? preference for proven, production-qualified platforms with well-established service ecosystems, which tends to reinforce demand for incumbent DUV laser architectures in high-stakes manufacturing environments.

At the same time, the DUV laser market faces meaningful restraints. The supply chain is specialized and sensitive, with critical dependencies on UV-grade optics, coatings, high-purity gases and gas-handling subsystems (for excimer-based solutions), and precision manufacturing under tight contamination controls, which can constrain capacity, elevate costs, and extend lead times. Customer qualification cycles are long?particularly in semiconductor tool chains?making demand more lumpy and less responsive to short-term price competition. The market is also exposed to semiconductor capital expenditure cycles and geopolitical or regulatory frictions that can affect tool deliveries, cross-border service, and component sourcing. Finally, high operating and maintenance requirements for certain DUV platforms, along with customers? continuous focus on total cost of ownership, can slow adoption in non-core applications and place pressure on suppliers to deliver reliability improvements without proportionate price increases.

+357 96 030922
info@marketpublishers.com

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

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

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

Global DUV Lasers market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K 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 DUV Lasers

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 DUV Lasers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product

+357 96 030922
info@marketpublishers.com

portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cymer (ASML), Gigaphoton, Coherent, OXIDE Corporation, CryLas, Nireco, Advanced Optowave Corporation, Xiton Photonics, UVC Photonics, IPG Photonics, etc.

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

Market Segmentation

DUV Lasers 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

CW Laser

Pulse Laser

Market segment by Power

Below 50mW

50mW-300mW

Above 300mW

Market segment by Laser Architecture

ArF/KrF/F?

DPSS/Nd:YAG, etc.

Market segment by Application

+357 96 030922
info@marketpublishers.com

Semiconductor

Research and Development

Others

Major players covered

Cymer (ASML)

Gigaphoton

Coherent

OXIDE Corporation

CryLas

Nireco

Advanced Optowave Corporation

Xiton Photonics

UVC Photonics

IPG Photonics

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)

+357 96 030922
info@marketpublishers.com

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 DUV Lasers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the DUV Lasers 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 DUV Lasers 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 DUV Lasers.

Chapter 14 and 15, to describe DUV Lasers sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: DUV LASERS BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global DUV Lasers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/GE52DF3E032EEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GE52DF3E032EEN.html