

# Global DUV Lasers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global DUV Lasers market size is expected to reach \$ 1808 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

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.

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.

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. This report studies the global DUV Lasers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DUV Lasers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of DUV Lasers that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global DUV Lasers total production and demand, 2021-2032, (Units)

Global DUV Lasers total production value, 2021-2032, (USD Million)

Global DUV Lasers production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (Units), (based on production site)

Global DUV Lasers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: DUV Lasers domestic production, consumption, key domestic manufacturers and share

Global DUV Lasers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global DUV Lasers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global DUV Lasers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global DUV Lasers market based on the following parameters - company overview, production, value, price, gross margin, product 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World DUV Lasers market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global DUV Lasers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global DUV Lasers Market, Segmentation by Type:

CW Laser

Pulse Laser

#### Global DUV Lasers Market, Segmentation by Power:

Below 50mW

50mW-300mW

Above 300mW

#### Global DUV Lasers Market, Segmentation by Laser Architecture:

ArF/KrF/F?

DPSS/Nd:YAG, etc.

#### Global DUV Lasers Market, Segmentation by Application:

Semiconductor

Research and Development

Others

#### **Companies Profiled:**

Cymer (ASML)

Gigaphoton

Coherent

OXIDE Corporation

CryLas

Nireco

Advanced Optowave Corporation

Xiton Photonics

UVC Photonics

IPG Photonics

**Key Questions Answered:**

1. How big is the global DUV Lasers market?
2. What is the demand of the global DUV Lasers market?
3. What is the year over year growth of the global DUV Lasers market?
4. What is the production and production value of the global DUV Lasers market?
5. Who are the key producers in the global DUV Lasers market?
6. What are the growth factors driving the market demand?

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