

Global LiDAR Laser Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global LiDAR Laser market size is expected to reach \$ 2014 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

The LiDAR laser serves as the core light source component of a LiDAR system; it measures 3D spatial information?such as distance and velocity?by emitting pulsed laser beams at target objects and capturing the reflected signals. Its performance directly determines the LiDAR's detection range, resolution, and reliability. Global LiDAR shipments are projected to reach approximately 5.7 million units in 2025. Based on an estimate of one to two lasers per LiDAR unit, the global sales volume of LiDAR lasers for that year is expected to be around 500,000 units, with an average price of approximately \$140 per unit. Regarding downstream demand, the three primary drivers are the rising penetration of advanced driver-assistance systems (ADAS), the large-scale operation of Robotaxis, and the explosive growth of the robotics market. Key downstream customers include LiDAR system manufacturers such as Hesai Technology, RoboSense, Innovusion, and Huawei, as well as automakers like BYD, Li Auto, and Xiaomi.

Looking ahead, the LiDAR laser market is entering a golden era of growth driven by the high-level penetration of autonomous driving and the explosive expansion of the robotics market. On the demand side, global shipments of LiDAR units for passenger vehicles reached 3.7 million in 2025, with Chinese companies capturing approximately 92% of the global automotive market share. Hesai Technology projects its shipments will double to between 3 million and 3.5 million units by 2026, while RoboSense anticipates two- to threefold growth; the volume increase from these two leading companies alone will drive demand for millions of additional laser units. Meanwhile, the robotics market is emerging as the sector's most significant new growth engine: Hesai

Technology's robotics LiDAR shipments reached 239,000 units in 2025 (a 425.8% year-on-year increase), and RoboSense's sales in the robotics sector hit 303,000 units (an elevenfold year-on-year increase). On the supply side, the LiDAR laser industry is rapidly evolving toward higher integration and lower costs. The average price of LiDAR units dropped from tens of thousands of dollars in 2021 to between \$350 and \$500 in 2025; as a core component, lasers face similar pressure to reduce costs, compelling upstream manufacturers to achieve savings through chip-level integration and mass production. Key technological breakthroughs—specifically the miniaturization of 1550nm fiber lasers, the adoption of VCSEL arrays, and hybrid silicon-photonics integration—have driven system costs down by more than 60% compared to 2020 levels. The industry has transitioned from an early phase of heavy capital expenditure to a stage of mass-market scaling; Hesai Technology achieved a gross margin of 41.8% for the full year of 2025, while RoboSense saw its gross margin rise to 25.9% in the first half of 2025, reflecting a continuous improvement in overall industry profitability. However, challenges remain: LiDAR prices continue to trend downward—Hesai Technology's unit price dropped to 2,194 RMB in the second quarter of 2025, a 54% year-over-year decline—a trend that will continue to squeeze profit margins for upstream laser manufacturers. Meanwhile, cost pressures from downstream automakers are being passed upstream, forcing laser suppliers to continuously lower prices and placing higher demands on their cost control and mass-delivery capabilities. Overall, the LiDAR laser sector has entered a phase of explosive growth driven by both technology and scale; the global LiDAR market is projected to expand at a compound annual growth rate (CAGR) of 18.6% to 20% between 2025 and 2030, and companies possessing in-house core chip development capabilities, mass-delivery capacity, and deep ties with leading customers are poised to reap sustained benefits from this rapid industry expansion.

This report studies the global LiDAR Laser production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LiDAR Laser 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 LiDAR Laser that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LiDAR Laser total production and demand, 2021-2032, (K Units)

Global LiDAR Laser total production value, 2021-2032, (USD Million)

Global LiDAR Laser production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global LiDAR Laser consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: LiDAR Laser domestic production, consumption, key domestic manufacturers and share

Global LiDAR Laser production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global LiDAR Laser production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global LiDAR Laser production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global LiDAR Laser 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 Coherent Corp. (US), ams OSRAM (AT), Lumentum Holdings Inc. (US), Hamamatsu Photonics K.K. (JP), Suzhou Everbright Photonics Co., Ltd. (CN), Vertilite Co., Ltd. (CN), Excelitas Technologies Corp. (US), Lumibird SA (FR), Raysees Technology (CN), TRUMPF Photonic Components GmbH (DE), 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 LiDAR Laser market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 LiDAR Laser Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LiDAR Laser Market, Segmentation by Type:

EEL

VCSEL(Vertical Cavity Surface Emitting Laser)

Solid State Laser

Fiber Laser

Others

Global LiDAR Laser Market, Segmentation by Wavelength:

850nm

905nm

940nm

1064nm

1550nm

Others

Global LiDAR Laser Market, Segmentation by Package Form:

TO Package

SMD Package

Butterfly Package

Other

Global LiDAR Laser Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Medical Care

Other

Companies Profiled:

Coherent Corp. (US)

ams OSRAM (AT)

Lumentum Holdings Inc. (US)

Hamamatsu Photonics K.K. (JP)

Suzhou Everbright Photonics Co., Ltd. (CN)

Vertilite Co., Ltd. (CN)

Excelitas Technologies Corp. (US)

Lumibird SA (FR)

Raysees Technology (CN)

TRUMPF Photonic Components GmbH (DE)

LASER COMPONENTS Canada Inc. (CA)

ROHM Co., Ltd. (JP)

Leonardo Electronics US Inc. (US)

SemiNex Corporation (US)

Sivers Semiconductors AB / Sivers Photonics (SE)

Sony Semiconductor Solutions Corp. (JP)

LEMON Photonics (CN)

Sheaumann Laser, Inc. (US)

Seoul Viosys Co., Ltd. (KR)

BOX Optronics Technology Co., Ltd. (CN)

Ushio Inc. (JP)

Arima Lasers Corp. (TW)

Key Questions Answered:

1. How big is the global LiDAR Laser market?
2. What is the demand of the global LiDAR Laser market?
3. What is the year over year growth of the global LiDAR Laser market?
4. What is the production and production value of the global LiDAR Laser market?
5. Who are the key producers in the global LiDAR Laser market?

6. What are the growth factors driving the market demand?

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