

# Lidar Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Laser Scanner, Navigation and Positioning Systems, Other Components), By Type (Terrestrial, Aerial, Mobile), By Technology, By Applications, By End User

<https://marketpublishers.com/r/L9FD582B72B9EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: L9FD582B72B9EN

## Abstracts

The Lidar Market is valued at USD 3.7 billion in 2025 and is projected to grow at a CAGR of 16.9% to reach USD 15.1 billion by 2034. The LiDAR (Light Detection and Ranging) market includes technologies that use laser pulses to create precise 3D maps of physical environments. These systems are widely used across industries such as automotive (especially autonomous vehicles), geospatial surveying, agriculture, construction, defense, and environmental monitoring. LiDAR systems can be airborne, terrestrial, or mobile and are composed of sensors, scanners, GPS units, and data processing software. As automation and real-time spatial awareness become critical for innovation, LiDAR has emerged as a foundational technology in smart infrastructure, robotics, and advanced navigation systems, offering high-resolution imaging in complex and dynamic environments. The LiDAR market gained significant momentum, particularly in the automotive and infrastructure sectors. Automotive OEMs accelerated the integration of solid-state LiDAR into advanced driver-assistance systems (ADAS) and self-driving prototypes. Governments in North America and Europe initiated LiDAR-based urban mapping projects to support climate resilience and traffic optimization. Drone-mounted LiDARs saw increased adoption for precision agriculture and utility inspection. Vendors introduced more compact, affordable, and energy-efficient sensors, making LiDAR more accessible for commercial and consumer applications. Investments in sensor fusion technologies and AI-based point cloud processing further strengthened LiDAR's role in real-time decision-making environments. The LiDAR market is expected to expand into smart cities, industrial robotics, and digital twin development. Cost reductions and manufacturing scale will bring high-resolution LiDAR to mid-range

vehicle models and consumer drones. LiDAR will also be central to monitoring coastal erosion, wildfire risks, and infrastructure health as climate adaptation becomes a global priority. Advances in sensor miniaturization, edge computing, and 5G connectivity will support rapid data transmission and on-device processing. With regulatory frameworks forming around autonomous navigation and aerial surveillance, LiDAR providers will play a strategic role in shaping next-generation spatial intelligence platforms.

## Key Insights Lidar Market

Automotive-grade solid-state LiDAR systems are becoming standard for ADAS and autonomous vehicle applications.

Drone-based LiDAR is expanding in agriculture, mining, and energy sectors for real-time terrain analysis.

AI integration in LiDAR data processing is enhancing speed and object recognition accuracy in complex environments.

Governments are investing in LiDAR-based digital mapping for smart infrastructure and disaster preparedness.

Miniaturization and cost reduction are driving LiDAR's entry into consumer electronics and robotics markets.

Growing adoption of autonomous systems in transportation, industry, and defense is fueling LiDAR demand.

Need for high-resolution spatial data in construction, agriculture, and environmental monitoring is boosting use cases.

Government funding and public-private partnerships are supporting infrastructure mapping and urban planning projects.

Technological advancements are lowering hardware costs and increasing sensor durability and range.

High data processing requirements and integration complexities can delay deployment in legacy systems.

Market competition from alternative sensing technologies like radar and cameras may hinder growth in budget-sensitive sectors.

## Lidar Market Segmentation

### By Component

Laser Scanner

Navigation and Positioning Systems

Other Components

### By Type

Terrestrial

Aerial

Mobile

### By Technology

2D

3D

4D

### By Applications

Mapping and Cartography

ADAS (Advanced Driver-Assistance System)

Environment

Exploration and Detection

Other Applications

### By End User

Defense and Aerospace

Civil Engineering

Archaeology

Forestry and Agriculture

Mining

Transportation

### Key Companies Analysed

IPG Photonics Corporation

Trumpf lasers Laser plc

Lumentum Operations LLC

Jenoptik AG

Novanta Photonics Inc.

Coherent Inc.

IPG Photonics Corporation

LUMIBIRD Group

LaserStar Technologies Corporation

Epilog Laser India Pvt. Ltd.

Han's Laser Technology Industry Group Co. Ltd.

MKS Instruments Inc.

Gravotech Pvt. Ltd.

Corning Incorporated

Eurolaser GmbH

BYSTRONIC Laser AG

Newport Corporation

Rofin-Sinar Technologies Inc.

Amplitude Laser Group

Laser Quantum Ltd.

NKT Photonics A/S

Quantel Group

SPI Lasers UK Ltd.

Laserline GmbH

Raycus Fiber Laser Technologies Co. Ltd.

Laserax Inc.

Laser Components GmbH

Meller Optics Inc.

JenLas Diodenlaser GmbH

Epilog Laser

## Lidar Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Lidar Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Lidar market data and outlook to 2034

United States

Canada

Mexico

Europe — Lidar market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Lidar market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

## Middle East and Africa — Lidar market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

## South and Central America — Lidar market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Lidar value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Lidar industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Lidar Market Report

Global Lidar market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Lidar trade, costs, and supply chains

Lidar market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Lidar market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Lidar market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Lidar supply chain analysis

Lidar trade analysis, Lidar market price analysis, and Lidar supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Lidar market news and developments

### Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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