

# Key Trend Shaping The LiDAR Market In 2025: Strategic Partnerships Drive LiDAR Deployment

*The Business Research Company's LiDAR Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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/EINPresswire.com/ -- The rapid

expansion of the LiDAR market is

apparent by its impressive growth from

\$2.54 billion in 2024 to \$3.03 billion in 2025, reaching a staggering compound annual growth rate

CAGR of 19.1%. The LiDAR market saw substantial growth during the historic period, which was

primarily propelled by automotive safety regulations, increasing demand for LiDAR in

applications such as topographic mapping, agriculture and forestry, growth in military and

defense, smart cities, and infrastructure.



The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034"

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What is the projected growth of [the LiDAR market size](#) in the foreseeable future?

The potential for further expansion in the LiDAR market is evident, with a predicted growth to \$6.08 billion in 2029.

This growth trajectory corresponds with a compound annual growth rate CAGR of 19.0%. The anticipated growth in the forecast period can be attributed to various factors including the continued development and commercialization of autonomous vehicle, an increased

interest in LiDAR for environmental monitoring, and a growing integration of LiDAR in robotics and automation. Major trends during the forecast period include the emergence of new and innovative LiDAR applications, an increasing use of LiDAR for 3D scanning and modeling, solid-state LiDAR, multi-sensor integration, geospatial mapping, environmental LiDAR, artificial intelligence, and LiDAR technologies.

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LiDAR Global Market Report 2025



What are the key drivers propelling the growth of the LiDAR market?

The upsurge in demand for autonomous vehicles is expected to be a prime driver for the LiDAR market's forward momentum. These autonomous vehicles, or self-driving cars, operate without human interference and rely heavily on LiDAR light detection and ranging for precise, real-time 3D mapping and object detection. This technology significantly improves safety and fosters the development of advanced driver assistance systems, supporting the transition to autonomous driving.

Who are the significant players operating in the LiDAR market?

The LiDAR market is replete with several major companies such as Velodyne GmbH, Leica Geosystems AG, LEOSPHERE SAS, HEXAGON AB, GeoSLAM Ltd., Firmatek LLC, RIEGL Laser Measurement Systems GmbH, Mira Solutions Inc., Aerometric Surveys SA, Airborne Hydrography AB, Faro Technologies Inc., Phoenix LiDAR Systems, Innoviz Technologies Ltd., Waymo LLC, Valeo SA, Neptec Technologies Corp., ZX LIDARS, SICK AG, Quanergy Systems Inc., Teledyne Optech Inc., Trimble Inc., NV5 Global Inc., Huawei Technologies Co. Ltd., Ouster Inc., Luminar Inc., Aeva Technologies Inc., Beijing SureStar Technology Co. Ltd., Quantum Spatial India Private Limited, Topcon Positioning Systems, Cepton Technologies Inc., Optris GmbH, YellowScan Inc., Livox Tech Ltd.

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What's the market strategy adopted by these top players?

These leading companies in the LiDAR market have adopted strategic partnerships to leverage each other's strengths and resources for mutual benefits and success.

What is the market [segmentation of the LiDAR industry?](#)

The LiDAR market encapsulates the following segments:

- 1 By Component: Laser Scanner, Navigation and Positioning Systems, Other Components
- 2 By Type: Terrestrial, Aerial, Mobile
- 3 By Technology: 2D, 3D, 4D
- 4 By Applications: Mapping and Cartography, ADAS Advanced Driver-Assistance System, Environment, Exploration and Detection, Other Applications
- 5 By End User: Defense and Aerospace, Civil Engineering, Archaeology, Forestry and Agriculture, Mining, Transportation

Subsegments include:

- By Laser Scanner: Airborne Laser Scanners, Terrestrial Laser Scanners, Mobile Laser Scanners
- By Navigation And Positioning Systems: GPS Receivers, Inertial Measurement Units IMUs, Control Software
- By Other Components: Photodetectors, Optical Systems, Data Storage And Processing Units

What are the regional insights into the LiDAR market?

In 2024, North America was the largest region in the LiDAR market. During the forecast period, Asia-Pacific is anticipated to be the fastest-growing region. The regions covered in the LiDAR market report include Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East and Africa.

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