

Global LiDAR Software Market Size Study, by Application (Forestry and Environmental, Survey and Mapping, Automotive, Construction and Infrastructure, Others), by Technology Type (Mechanical, Solid State), by Product Type (Simulation Software, Mapping Software, Processing Software), by Deployment (Airborne, Terrestrial), and Regional Forecasts 2022-2032

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Abstracts

The Global LiDAR Software market was valued at approximately USD 335.4 million in 2023 and is projected to witness significant growth, reaching USD 1,940.2 million by 2032. This remarkable expansion, with a compound annual growth rate (CAGR) of 21.53% over the forecast period from 2024 to 2032. LiDAR (Light Detection and Ranging) software processes data collected by LiDAR sensors, which use laser pulses to measure distances and generate precise, three-dimensional information about the shape of the Earth and its surface characteristics. Applications of LiDAR software include topographic mapping, forestry management, urban planning, autonomous vehicle navigation, environmental monitoring, and archaeology. It enables detailed terrain analysis, vegetation assessment, infrastructure inspection, and flood risk mapping. LiDAR software converts raw data into usable formats, performs data visualization, and facilitates analysis, providing critical insights for various industries and scientific research.

LiDAR software is transitioning through a rapid growth phase, characterized by an increase in the number of companies offering innovative LiDAR software solutions. Technological advancements in both LiDAR hardware and software are contributing to cost reductions, which in turn are accelerating the global adoption of LiDAR solutions.

To expand their global footprint, LiDAR software solution providers are forming strategic partnerships with key stakeholders in the LiDAR ecosystem. Additionally, there is a growing demand for affordable and user-friendly LiDAR software solutions, shaping the future of the industry. Prominent LiDAR hardware providers are also enhancing their in-house capabilities to produce superior LiDAR software solutions, thereby offering a competitive edge. With anticipated significant demand from automotive and smart infrastructure applications, intense market competition is expected among both established and emerging players in the LiDAR software industry.

The impact of the LiDAR software market is profound, with several factors driving its growth. The focus on advanced LiDAR solutions to improve existing ADAS features in the automotive sector, the rising demand for LiDAR solutions in surveying and mapping, and the adoption of these solutions to streamline construction projects are key drivers. Providers are investing heavily in the development of advanced LiDAR software to meet the increasing demand for user-friendly, cost-effective, and high-performance solutions. With the growing need for advanced LiDAR perception solutions in autonomous driving and smart infrastructure applications, the market is expected to flourish during the forecast period.

North America held the largest share of the LiDAR software market in 2023, driven by its substantial automotive and construction sectors, as well as significant investment in technological innovation. However, Europe and China are poised to lead the market in terms of growth, driven by a surge in demand for autonomous driving and smart infrastructure applications over the next decade.

Major market players included in this report are:

Velodyne LiDAR, Inc.

Phoenix LiDAR Systems

Terrasolid

GreenValley International

Geo-Plus

GeoCue

Routescene

YellowScan

LeddarTech Inc.

Blickfeld GmbH

Shanghai Huace Navigation Technology Ltd. (CHC Navigation)

Leica Geosystems AG - Part of Hexagon AB

Quanergy Systems, Inc.

Innoviz Technologies Ltd

Teledyne Geospatial

The detailed segments and sub-segment of the market are explained below:

By Application:

- Forestry and Environmental
- Survey and Mapping
- Automotive
- Construction and Infrastructure
- Others

By Technology Type:

- Mechanical
- Solid State

By Product Type:

- Simulation Software
- Mapping Software
- Processing Software

By Deployment:

- Airborne
- Terrestrial

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico

- Middle East & Africa
- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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