

# **LiDAR Market–Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Terrestrial, Aerial, Mobile & UAV), By Component (LASER, Inertial Navigation System, Camera, GPS GNSS Receiver and MEMS), By Application (Corridor Mapping, Seismology, Exploration & Detection, Others), By Region, Competition**

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## **Abstracts**

Global LiDAR Market is anticipated to grow at a robust pace in the forecast period, 2024-2028. The primary driving force behind market growth is the advantages of LiDAR technology over traditional rival technologies. The industry is becoming more fragmented, and new innovations like 4D radars that transmit signals continuously are promoting market expansion.

According to a LiDAR market study, the development of the light detection and ranging (LiDAR) technology made it simpler than ever to examine, find, and map items. This approach is preferred over traditional surveying techniques because it can provide 4D pictures and highly accurate data more quickly. The primary reason propelling the growth of the Global LiDAR Market is improved automated processing ability of LiDAR systems in terms of picture resolution and data processing capabilities over other technologies.

Increased usage of aerial LiDAR systems to explore and discover locations and historic information, as well as rising demand for 4D imaging technology across a variety of application domains, are other drivers supporting the market's expansion. The inclusion

of expensive parts like a laser scanner, navigation system, and high-resolution 4D cameras together drives up the price of LiDAR systems despite the fact that less people are aware of their advantages. These issues restrict the use of LiDAR systems, which in turn limits the trends in the global LiDAR industry.

#### The Increase in interest in 4D imaging

Over the course of the forecast period, the market is anticipated to rise as a result of the increased demand for 4D images in sectors such as military & defense, topographical surveys, civil engineering, and corridor mapping. Applications like 4D mapping, city planning, and corridor mapping use textured 4D imaging. Installing cutting-edge safety measures is expanding tremendously. Additionally, self-driving cars have received official approval for use on public roads in nations like the U.S. These automobiles include LiDAR integration for GPS and navigational purposes.

The easy accessibility of inexpensive and lightweight photogrammetry technologies is limiting industry expansion

The expansion of the LiDAR sector is expected to be constrained by the use of portable, affordable photogrammetry technology for mapping and surveying. LiDAR drones employ active sensors to recognize things on the ground and then fire laser beams to measure their distance from the ground targets. While photogrammetry systems employ images broadcast from 3D and 4D cartographic models to provide the appearance that things are below the ground's surface, allowing users to observe and compute the distance of objects in 3D. But LiDAR drones are more expensive than photogrammetry equipment. Their cheap cost is a result of the employment of drones with a single camera for carrying photogrammetry equipment. As a result, the price of LiDAR drones as a whole is raised by this heavy machinery. Therefore, the proliferation of the LiDAR industry is constrained by the easy availability of inexpensive and lightweight photogrammetry instruments.

Limited geospatial data availability and high LiDAR service costs

LiDAR surveying is more costly than using more conventional surveying techniques. A LiDAR system will generally cost around USD 75,000 when all the high-end gear, sensors, scanners, etc. are included. The processing software should be free, but post-processing software, such point-cloud categorization, may need third-party software, which might cost between USD 20,000 and USD 30 000 for a single license.

## Market Segmentation

Global LiDAR Market is segmented By Type, By Component, By Application, Region and Competitive Landscape. Based on Type, the market is segmented into Terrestrial, Aerial, Mobile & UAV. Based on Component, the market is segmented into LASER and Inertial Navigation System, Camera, GPS GNSS Receiver and MEMS. Based on Application into Corridor Mapping, Seismology, Exploration & Detection, Lidar, Others.

## Market players

Major market players in the global LiDAR market are Faro Technology, Inc, RIEGL USA, Inc, Quantum Spatial, Inc, Leica Geosystem Holdings AG, Teledyne Optech Incorporated (A part of Teledyne Technologies), Trimble Navigation Limited, Ultra-Communications, Vertilas GmbH, Velodyne LiDAR, Inc, Sick AG.

## Report Scope:

In this report, the Global LiDAR Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### LiDAR Market, By Type:

Terrestrial

Aerial

Mobile & UAV

### LiDAR Market, By Component:

LASER

Inertial Navigation System

Camera

GPS GNSS Receiver

MEMS

### LiDAR Market, By Application:

- Corridor Mapping
- Seismology
- Exploration & Detection
- Others

### LiDAR Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Asia-Pacific
  - India
  - China
  - Japan
  - South Korea
  - Australia
- Europe
  - Germany
  - United Kingdom

France

Italy

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

Saudi Arabia

South Africa

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global LiDAR Market.

## Available Customizations:

Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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