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Global Light Detection and Ranging Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Light Detection and Ranging market size was valued at USD 402.3 million in 2023 and is forecast to a readjusted size of USD 493.7 million by 2030 with a CAGR of 3.0% during review period.

Light Detection and Ranging (LIDAR), also written lidar, LiDAR or LADAR, is a remote sensing technology that measures distance by illuminating a target with a laser and analyzing the reflected light. LIDAR is popularly used as a technology to make high-resolution maps, with applications in civil engineering, forestry & agriculture, transportation, urban mapping, etc. What is known as LIDAR is sometimes simply referred to as laser scanning or 4D scanning, with terrestrial and airborne applications.

Global Light Detection and Ranging (LIDAR) key players include Leica Geosystems, Trimble, Optech, Riegl, etc. Global top four manufacturers hold a share nearly 75%.

North America is the largest market, with a share about 30%, followed by Europe, and Japan, both have a share over 40 percent.

In terms of product, Airborne LIDAR is the largest segment, with a share about 56%. And in terms of application, the largest application is Civil Engineering, followed by Urban Mapping, Transportation, Forestry and Agriculture , etc.

The Global Info Research report includes an overview of the development of the Light Detection and Ranging industry chain, the market status of Government (Airborne LIDAR, Terrestrial LIDAR), Civil Engineering (Airborne LIDAR, Terrestrial LIDAR), and

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key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Light Detection and Ranging.

Regionally, the report analyzes the Light Detection and Ranging markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Light Detection and Ranging market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Light Detection and Ranging market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Light Detection and Ranging industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Airborne LIDAR, Terrestrial LIDAR).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Light Detection and Ranging market.

Regional Analysis: The report involves examining the Light Detection and Ranging market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Light Detection and Ranging market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Light Detection and Ranging:

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Company Analysis: Report covers individual Light Detection and Ranging players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Light Detection and Ranging This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Government, Civil Engineering).

Technology Analysis: Report covers specific technologies relevant to Light Detection and Ranging. It assesses the current state, advancements, and potential future developments in Light Detection and Ranging areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Light Detection and Ranging market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Light Detection and Ranging market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Airborne LIDAR

Terrestrial LIDAR

Mobile LIDAR

Short Range LIDAR

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Market segment by Application

- Government
- Civil Engineering
- Military
- Defence and Aerospace
- Corridor Mapping
- Topographical Surveys
- Volumetric Mapping
- Others

Market segment by players, this report covers

- Leica Geosystems
- Trimble
- Teledyne Optech
- Riegl
- Topcon
- Velodyne LiDAR
- 3D Laser Mapping
- IGI
- Sure Star

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Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Light Detection and Ranging product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Light Detection and Ranging, with revenue, gross margin and global market share of Light Detection and Ranging from 2019 to 2024.

Chapter 3, the Light Detection and Ranging competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024.and Light Detection and Ranging market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Light Detection and Ranging.

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Chapter 13, to describe Light Detection and Ranging research findings and conclusion.

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