

# Global Optical Lidar Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Optical Lidar market size was valued at USD 1916.9 million in 2022 and is forecast to a readjusted size of USD 7102.7 million by 2029 with a CAGR of 20.6% during review period.

Optical lidar is a high-precision three-dimensional sensing technology that uses laser beams to measure the distance, position and shape of objects. Optical lidar often plays a key role in areas such as autonomous vehicles, robotics, aerospace, geographic information systems (GIS), environmental monitoring, military applications, and scientific research.

Optical lidar is a high-precision three-dimensional sensing technology that uses laser beams to measure the distance, position and shape of objects. Optical lidar often plays a key role in areas such as autonomous vehicles, robotics, aerospace, geographic information systems (GIS), environmental monitoring, military applications, and scientific research. Optical lidar determines the distance, location and shape of a target by firing laser pulses at the target and then measuring the time it takes for the light pulse to return and the direction of its beam. As technology develops and the market expands, the cost of optical lidar gradually decreases, making it more affordable and popular. The trend is for optical lidar hardware to become smaller and more integrated to accommodate different sizes and types of devices, such as drones, consumer cars, and mobile robots. In summary, optical lidar technology is constantly evolving to adapt to the needs of various application areas and provide higher accuracy and more reliable environmental perception. The continuous development of these technologies will promote progress in fields such as automation, intelligence, and scientific research.

The Global Info Research report includes an overview of the development of the Optical

Lidar industry chain, the market status of Autopilot (Solid State Lidar, Rotary Lidar), Robot (Solid State Lidar, Rotary Lidar), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Optical Lidar.

Regionally, the report analyzes the Optical Lidar 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 Optical Lidar market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Optical Lidar 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 Optical Lidar 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 sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Solid State Lidar, Rotary 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 Optical Lidar market.

**Regional Analysis:** The report involves examining the Optical Lidar 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 Optical Lidar market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Optical Lidar:

**Company Analysis:** Report covers individual Optical Lidar manufacturers, 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 Optical Lidar. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Autopilot, Robot).

**Technology Analysis:** Report covers specific technologies relevant to Optical Lidar. It assesses the current state, advancements, and potential future developments in Optical Lidar areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Optical Lidar 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

Optical Lidar market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Solid State Lidar

Rotary Lidar

### Market segment by Application

Autopilot

Robot

Military

Surveying and Mapping

Aviation

#### Major players covered

Velodyne Lidar

Quanergy Systems

Luminar Technologies

Innoviz Technologies

Ouster

LeddarTech

Rayz

Windmill

Sophoton

Tianmou Toec

Lorentech

Richbeam

Morelite

Kyle Optics

Luminwave

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Optical Lidar product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Optical Lidar, with price, sales, revenue and global market share of Optical Lidar from 2018 to 2023.

Chapter 3, the Optical Lidar competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Optical Lidar breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Optical Lidar market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Optical Lidar.

Chapter 14 and 15, to describe Optical Lidar sales channel, distributors, customers, research findings and conclusion.

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