

# Global Vehicle-mounted OPA LiDAR Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G03988185AE2EN.html>

Date: December 2023

Pages: 109

Price: US\$ 3,480.00 (Single User License)

ID: G03988185AE2EN

## Abstracts

According to our (Global Info Research) latest study, the global Vehicle-mounted OPA LiDAR market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

OPA (phased array) lidar is a type of lidar that uses optical phase control array technology to achieve laser scanning. The OPA transmitter is composed of multiple independently controllable transmitting and receiving units. Changing the voltage loaded on them can change the characteristics of the light waves emitted by each unit, and then by adjusting the phase relationship between the emitted light waves, mutual enhancement can be achieved in a certain direction. Interference produces a directional, high-intensity beam.

Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea, Germany, India, Mexico, and other countries; among them, China is the largest automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.

The Global Info Research report includes an overview of the development of the Vehicle-mounted OPA LiDAR industry chain, the market status of Commercial Vehicle (FMCW Ranging Type, ToF Ranging Type), Passenger Car (FMCW Ranging Type, ToF Ranging Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Vehicle-mounted OPA LiDAR.

Regionally, the report analyzes the Vehicle-mounted OPA 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 Vehicle-mounted OPA LiDAR market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Vehicle-mounted OPA 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 Vehicle-mounted OPA 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., FMCW Ranging Type, ToF Ranging Type).

**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 Vehicle-mounted OPA LiDAR market.

**Regional Analysis:** The report involves examining the Vehicle-mounted OPA 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 Vehicle-mounted OPA 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 Vehicle-mounted OPA LiDAR:

**Company Analysis:** Report covers individual Vehicle-mounted OPA 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 Vehicle-mounted OPA LiDAR. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Commercial Vehicle, Passenger Car).

**Technology Analysis:** Report covers specific technologies relevant to Vehicle-mounted OPA LiDAR. It assesses the current state, advancements, and potential future developments in Vehicle-mounted OPA LiDAR areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Vehicle-mounted OPA 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

Vehicle-mounted OPA 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

FMCW Ranging Type

ToF Ranging Type

## Market segment by Application

Commercial Vehicle

Passenger Car

## Major players covered

Quanergy

VanJee Technology Co Ltd

RoboSense

Litrtech

Scantinel

Analog Photonics

Guo Ke Guang Xin Technology

Luminwave

Shanghai Xiangdian Technology

Xenomatrix

## 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 Vehicle-mounted OPA LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vehicle-mounted OPA LiDAR, with price, sales, revenue and global market share of Vehicle-mounted OPA LiDAR from 2018 to 2023.

Chapter 3, the Vehicle-mounted OPA LiDAR competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vehicle-mounted OPA 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 Vehicle-mounted OPA 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 Vehicle-mounted OPA LiDAR.

Chapter 14 and 15, to describe Vehicle-mounted OPA LiDAR sales channel, distributors, customers, research findings and conclusion.

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