

Global Optical Phased Array LiDAR Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/GED2B4018FB0EN.html>

Date: December 2023

Pages: 117

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

ID: GED2B4018FB0EN

Abstracts

According to our (Global Info Research) latest study, the global Optical Phased Array LiDAR market size was valued at USD 114.5 million in 2022 and is forecast to a readjusted size of USD 160.1 million by 2029 with a CAGR of 4.9% during review period.

Optical Phased Array LiDAR is a lidar system implemented using optical phased array technology. Traditional lidar systems use mechanical rotating mirrors or electronic scanners to change the direction of the laser beam to scan and measure the environment. Optical phased array lidar uses a fully electronic method to control and adjust the direction of the laser beam by adjusting optical elements (such as gratings or waveguides) in the array.

The Global Info Research report includes an overview of the development of the Optical Phased Array LiDAR industry chain, the market status of Automobile (FMCW Ranging Type, ToF Ranging Type), Industrial (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 Optical Phased Array LiDAR.

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

Key Features:

The report presents comprehensive understanding of the Optical Phased Array 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 Phased Array 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 Optical Phased Array LiDAR market.

Regional Analysis: The report involves examining the Optical Phased Array 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 Phased Array 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 Phased Array LiDAR:

Company Analysis: Report covers individual Optical Phased Array 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 Phased Array LiDAR This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automobile, Industrial).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Optical Phased Array 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 Phased Array 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

Automobile

Industrial

Others

Major players covered

AEye Inc.

Neptec Technologies Corp.

Quanergy

RoboSense

Xenomatrix

Analog Photonics

VanJee Technology Co Ltd

Luminwave

Litrattech

Velodyne

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 Phased Array LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Optical Phased Array LiDAR, with price, sales, revenue and global market share of Optical Phased Array LiDAR from 2018 to

2023.

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

Chapter 4, the Optical Phased Array 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 Phased Array 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 Phased Array LiDAR.

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

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