

Global Optical Phased Array (OPA) LiDAR Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Optical Phased Array (OPA) LiDAR market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Optical Phased Array (OPA) LiDAR market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An Optical Phased Array (OPA) LiDAR system is an advanced type of LiDAR (Light Detection and Ranging) technology that utilizes an array of individually controllable optical elements to steer laser beams for 3D mapping and remote sensing applications. Traditional LiDAR systems use mechanical scanning mechanisms such as rotating mirrors to direct laser pulses, which can be limited in speed and agility. In contrast, OPA LiDAR systems employ arrays of tiny optical components, such as micro-electro-mechanical systems (MEMS) or liquid crystal arrays, to steer laser beams electronically without moving parts. This electronic beam steering capability enables OPA LiDAR systems to achieve rapid scanning speeds, high resolution, and customizable scanning patterns, making them well-suited for applications such as autonomous vehicles, terrain mapping, environmental monitoring, and urban planning. Additionally, OPA LiDAR systems offer the potential for compact, lightweight, and cost-effective solutions compared to traditional mechanical LiDAR systems.

The major global manufacturers of Optical Phased Array (OPA) LiDAR include AEye

Inc., Neptec Technologies Corp., Quanergy, RoboSense, Xenomatix, Analog Photonics, VanJee Technology Co Ltd, yangzhou qunfa heat exchanger, luminwave, litratech, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Optical Phased Array (OPA) LiDAR. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Optical Phased Array (OPA) LiDAR market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Optical Phased Array (OPA) LiDAR market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Optical Phased Array (OPA) LiDAR industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Optical Phased Array (OPA) LiDAR Include:

AEye Inc.

Neptec Technologies Corp.

Quanergy

RoboSense

Xenomatrix

Analog Photonics

VanJee Technology Co Ltd

yangzhou qunfa heat exchanger

luminwave

litrtech

Optical Phased Array (OPA) LiDAR Product Segment Include:

FMCW Ranging Type

ToF Ranging Type

Optical Phased Array (OPA) LiDAR Product Application Include:

Automobile

Industrial

Others

Chapter Scope

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