

Global Solid-State LiDAR Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/S7785E32A028EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: S7785E32A028EN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Solid-State LiDAR market size will reach 2,164.77 Million USD in 2025 and is projected to reach 10,461.96 Million USD by 2032, with a CAGR of 25.24% (2025-2032). Notably, the China Solid-State 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

Solid-state LiDAR refers to a type of LiDAR (Light Detection and Ranging) sensor that operates without moving parts, using solid-state components such as semiconductor lasers, photodetectors, and beam steering elements like micro-electro-mechanical systems (MEMS) or optical phased arrays. Unlike traditional mechanical LiDAR systems that use spinning mirrors or rotating assemblies to scan the environment, solid-state LiDARs emit and steer laser beams electronically, offering advantages such as smaller size, lower weight, faster response times, and increased reliability. These sensors are crucial for autonomous vehicles, robotics, and various industrial applications where precise 3D mapping and object detection are essential. Solid-state LiDAR technology continues to advance, aiming to enhance performance metrics such as range, resolution, and cost-effectiveness to enable widespread adoption in next-generation mobility and sensing systems.

The major global manufacturers of Solid-State LiDAR include Velodyne, Quanergy, LeddarTech, ABAX Sensing, Ibeo, Trilumina, Innoviz, Strobe, Aeye, Luminar,

Continental, Imec, Xenomatix, Robosense, Genius Pro, Benewake, Hesai, 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 Solid-State 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 Solid-State 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 Solid-State 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 Solid-State 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 Solid-State LiDAR Include:

Velodyne

Quanergy

LeeddarTech

ABAX Sensing

Ibeo

Trilumina

Innoviz

Strobe

Aeye

Luminar

Continental

Imec

Xenomatix

Robosense

Genius Pro

Benewake

Hesai

Solid-State LiDAR Product Segment Include:

MEMS Based Scanning

Phase Array

Non-Scanning Flash

Solid-State LiDAR Product Application Include:

Automotive

Industrial

Security

Other

Chapter Scope

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