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Global LiDAR Sensors for Self-Driving Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global LiDAR Sensors for Self-Driving market size was valued at US$ 3368 million in 2025 and is forecast to a readjusted size of US$ 12694 million by 2032 with a CAGR of 20.8% during review period.

In 2025, the global LiDAR sensors for self-driving market records an annual production volume of approximately 4.25 million units against a global installed production capacity of about 5.70 million units per year, with average unit price USD 770, while leading manufacturers maintain an average gross margin of roughly 48%. LiDAR sensors for self-driving are active optical sensing systems that emit laser pulses and measure their return time to generate high-resolution 3D point-cloud maps of a vehicle's surroundings, enabling precise object detection, distance measurement, and scene understanding under a wide range of lighting conditions. The supply chain begins with core components such as laser sources (905 nm or 1550 nm semiconductor lasers/fiber lasers), photodetectors (APDs or SPADs), optical elements (lenses, prisms, MEMS mirrors or optical phased arrays), and timing/processing ICs (ToF ASICs, SoCs), which are supplied by semiconductor, photonics, and optics manufacturers. These parts are integrated by LiDAR OEMs into mechanical, MEMS-based, or solid-state LiDAR modules, followed by calibration, firmware loading, and environmental testing. Tier-1 automotive suppliers then package LiDAR units into vehicle-grade systems, handling functional safety (ISO 26262), automotive qualification, and system integration with perception software. Finally, automakers and autonomous-driving platform providers deploy LiDAR sensors into ADAS and self-driving stacks, where the data is fused with cameras, radar, and AI processors to support perception, localization, and planning functions.

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This report is a detailed and comprehensive analysis for global LiDAR Sensors for Self-Driving market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global LiDAR Sensors for Self-Driving market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global LiDAR Sensors for Self-Driving market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global LiDAR Sensors for Self-Driving market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global LiDAR Sensors for Self-Driving market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for LiDAR Sensors for Self-Driving
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global LiDAR Sensors for Self-Driving market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hesai Technology, RoboSense, Ouster, Velodyne Lidar, Innoviz Technologies, Cepton Technologies, Luminar Technologies, LeddarTech, Aeva Technologies, Quanergy Systems, etc.

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This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

LiDAR Sensors for Self-Driving market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

ToF LiDAR

FMCW LiDAR

Market segment by Laser Wavelength

905 nm LiDAR

1550 nm LiDAR

Market segment by Application

Passenger Cars

Commercial Vehicles

Robotaxis

Major players covered

Hesai Technology

RoboSense

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Ouster

Velodyne Lidar

Innoviz Technologies

Cepton Technologies

Luminar Technologies

LeddarTech

Aeva Technologies

Quanergy Systems

Ibeo Automotive Systems

Livox

Blickfeld

Benewake

XenomatiX

MicroVision

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:

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Chapter 1, to describe LiDAR Sensors for Self-Driving product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LiDAR Sensors for Self-Driving, with price, sales quantity, revenue, and global market share of LiDAR Sensors for Self-Driving from 2021 to 2026.

Chapter 3, the LiDAR Sensors for Self-Driving competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LiDAR Sensors for Self-Driving breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026.and LiDAR Sensors for Self-Driving market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 LiDAR Sensors for Self-Driving.

Chapter 14 and 15, to describe LiDAR Sensors for Self-Driving sales channel, distributors, customers, research findings and conclusion.

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