

Global Compact LiDAR Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Compact LiDAR Sensor market size was valued at US\$ 849 million in 2024 and is forecast to a readjusted size of USD 1361 million by 2031 with a CAGR of 6.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A Compact LiDAR sensor is a miniaturized version of traditional LiDAR technology, designed to offer high-precision distance and mapping capabilities in a smaller, lighter, and more energy-efficient form factor. These sensors integrate the core functions of LiDAR—such as emitting laser pulses and detecting their reflections to calculate distances—into a compact housing that is ideal for space-constrained applications. Despite their reduced size, compact LiDAR sensors can deliver accurate 3D spatial data and are often used in drones, autonomous vehicles, robotics, and portable surveying equipment. Their small footprint enables easier integration into various platforms without significantly affecting weight or power consumption, making them especially valuable in fields where mobility and efficiency are critical.

This report is a detailed and comprehensive analysis for global Compact LiDAR Sensor 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 Compact LiDAR Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Compact LiDAR Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Compact LiDAR Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Compact LiDAR Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Compact LiDAR Sensor

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 Compact LiDAR Sensor 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 SICK, CHCNav, Teledyne Optech, LightWare, LIVOX, Datasensing, GreenValley, Luminar Technologies, Hesai Technology, Ouster, etc.

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

Market Segmentation

Compact LiDAR Sensor market is split by Type and by Application. For the period 2020-2031, 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

2D LiDAR Sensor

3D LiDAR Sensor

Market segment by Application

UAVs

Robotics

Industrial Automation

Others

Major players covered

SICK

CHCNav

Teledyne Optech

LightWare

LIVOX

Datasensing

GreenValley

Luminar Technologies

Hesai Technology

Ouster

Innoviz Technologies

MicroVision

Benewake

YDLIDAR

Pacecat

Mirrorcle Technologies

HongKe

Gtekesens

Pepperl+Fuchs

Cepton

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 Compact LiDAR Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Compact LiDAR Sensor, with price, sales quantity, revenue, and global market share of Compact LiDAR Sensor from 2020 to 2025.

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

Chapter 4, the Compact LiDAR Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Compact LiDAR Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Compact LiDAR Sensor.

Chapter 14 and 15, to describe Compact LiDAR Sensor sales channel, distributors, customers, research findings and conclusion.

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