

Global Survey-grade High-precision 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 Survey-grade High-precision LiDAR Sensor market size was valued at US\$ 438 million in 2024 and is forecast to a readjusted size of USD 647 million by 2031 with a CAGR of 5.7% 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 survey-grade high-precision LiDAR sensor is a specialized type of LiDAR system engineered to deliver exceptionally accurate and reliable geospatial data suitable for professional surveying and mapping applications. These sensors are characterized by their high measurement precision, typically achieving centimeter-level or even millimeter-level accuracy, and are capable of capturing dense point clouds with consistent spatial resolution. They often feature advanced technologies such as high-frequency laser emitters, precision timing systems, and robust calibration protocols to ensure data integrity across varying environmental conditions. Survey-grade LiDAR sensors are commonly deployed in airborne, terrestrial, and mobile mapping platforms for tasks such as topographic surveys, infrastructure inspection, and digital terrain modeling. Their high performance makes them indispensable tools in civil engineering, urban planning, and environmental monitoring, where exact spatial information is crucial.

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

Global Survey-grade High-precision 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 Survey-grade High-precision 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 Survey-grade High-precision 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 Survey-grade High-precision 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 Survey-grade High-precision 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 Leica Geosystem, GeoCue, Teledyne Optech, RIEGL, Ouster, Phoenix LiDAR Systems, Trimble, FARO Technologies, YellowScan, South Surveying & Mapping Technology, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Survey-grade High-precision 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

Topographic and Land Surveying

Civil Engineering and Infrastructure

Urban Planning and Smart Cities

Disaster Management and Risk Assessment

Others

Major players covered

Leica Geosystem

GeoCue

Teledyne Optech

RIEGL

Ouster

Phoenix LiDAR Systems

Trimble

FARO Technologies

YellowScan

South Surveying & Mapping Technology

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 Survey-grade High-precision LiDAR Sensor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Survey-grade High-precision 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 Survey-grade High-precision 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 Survey-grade High-precision LiDAR Sensor.

Chapter 14 and 15, to describe Survey-grade High-precision LiDAR Sensor sales channel, distributors, customers, research findings and conclusion.

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