

Global Long-range Laser Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G84B7FD46233EN.html>

Date: July 2026

Pages: 152

Price: US\$ 3,480.00 (Single User License)

ID: G84B7FD46233EN

Abstracts

According to our (Global Info Research) latest study, the global Long-range Laser Sensor market size was valued at US\$ 510 million in 2025 and is forecast to a readjusted size of US\$ 928 million by 2032 with a CAGR of 8.9% during review period.

In 2025, global sales of long-range laser sensors reached 68,400 units at an average price of \$7,250 per unit; total global production capacity stood at approximately 85,000 units per year, with an industry-average gross margin of around 31%. These high-precision measurement devices operate on the principle of laser emission and echo reception, enabling long-range target detection, distance measurement, speed detection, and 3D imaging; they are widely used in fields such as autonomous driving, drone-based surveying and mapping, industrial automation, intelligent transportation, structural monitoring, and security. Key upstream components include laser emitter chips, optical lenses, high-speed photodetectors, precision mechanical parts, microcontrollers, and data processing chips, while downstream products are supplied to automotive manufacturers, drone makers, intelligent transportation system integrators, industrial robotics companies, and research or surveying institutions. Autonomous driving and industrial automation account for the largest share of downstream consumption, followed by drone surveying and intelligent traffic monitoring; upstream material consumption is concentrated on laser chips, optical components, and high-performance control electronics. Driven by the rapid advancement of smart manufacturing, autonomous driving, and smart city development, market demand for long-range laser sensors continues to grow. Future development trends focus on high resolution, multi-target tracking, long-range precision ranging, low power consumption, and integrated AI-based intelligent analysis. Additionally, driver-assistance systems, smart logistics, intelligent warehousing, and industrial 3D scanning are expected to

create new business opportunities and expand the scope of applications for the industry.

This report is a detailed and comprehensive analysis for global Long-range Laser 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 Long-range Laser Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-range Laser Sensor 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 Long-range Laser Sensor 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 Long-range Laser Sensor 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 Long-range Laser 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 Long-range Laser 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 Micro-Epsilon, Acuity Laser, KEYENCE, Baumer, SICK, Pepperl+Fuchs, Aeva, Luminar, Meskernel, Banner Engineering, etc.

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

Market Segmentation

Long-range Laser Sensor 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

Time-of-Flight (ToF) Method

Triangulation Method

Phase-shift Method

Frequency-Modulated Continuous Wave (FMCW)

Market segment by Distance

Distance: 1m ? 30m

Distance: 30m ? 1500m

Market segment by Output Type

Digital Output

Analog Output

Market segment by Application

Autonomous Driving

Intelligent Transportation

Building Inspection

Others

Major players covered

Micro-Epsilon

Acuity Laser

KEYENCE

Baumer

SICK

Pepperl+Fuchs

Aeva

Luminar

Meskernel

Banner Engineering

OPTEX

Hesai Technology

Rockwell Automation

Bestech Australia

RoboSense

Proxitron

Seyond

Benewake

Leishen-lidar

Seakeda

Jenoptik

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 Long-range Laser Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Long-range Laser Sensor, with

price, sales quantity, revenue, and global market share of Long-range Laser Sensor from 2021 to 2026.

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

Chapter 4, the Long-range Laser Sensor 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 Long-range Laser Sensor 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 Long-range Laser Sensor.

Chapter 14 and 15, to describe Long-range Laser Sensor sales channel, distributors, customers, research findings and conclusion.

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