

# Global Continuous-wave Doppler LiDAR 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 Continuous-wave Doppler LiDAR market size was valued at US\$ 556 million in 2025 and is forecast to a readjusted size of US\$ 1043 million by 2032 with a CAGR of 9.4% during review period.

In 2025, global continuous-wave Doppler LiDAR production is estimated at about 8,400 units versus an installed capacity of roughly 11,000 units, with average unit price USD 64,300, and achieving gross margins of around 46%. Continuous-wave (CW) Doppler LiDAR is a laser-based remote sensing technology that emits a continuous, narrow-linewidth laser beam and measures the Doppler frequency shift of backscattered light from aerosols or particles in the atmosphere to determine line-of-sight wind speed with very high velocity resolution, commonly used in wind energy assessment, aviation safety, and boundary-layer meteorology. Its supply chain begins upstream with precision optoelectronic components such as single-frequency fiber or solid-state lasers, optical amplifiers, acousto-optic modulators, photodetectors, and high-quality lenses and fiber components supplied by specialized photonics vendors; midstream, LiDAR system manufacturers integrate these components with beam steering optics, signal processing electronics, embedded software, and Doppler algorithms to produce complete CW Doppler LiDAR instruments; downstream, the systems are deployed by wind farm developers, meteorological agencies, airports, research institutions, and defense users, often bundled with installation, calibration, data analytics, and long-term maintenance services provided by the LiDAR OEMs or specialized service companies.

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

Global Continuous-wave Doppler LiDAR 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 Continuous-wave Doppler LiDAR 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 Continuous-wave Doppler LiDAR 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 Continuous-wave Doppler LiDAR

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 Continuous-wave Doppler LiDAR 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 ZX Lidars, NRG Systems, Lumibird Group, Aeva, Scantinel, Insight LiDAR, LSLiDAR, Vaisala, LightIC, SiLC Technologies, etc.

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

### **Market Segmentation**

*Global Continuous-wave Doppler LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...*

Continuous-wave Doppler LiDAR 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

- Single-beam Systems

- Multi-beam Systems

#### Market segment by Detection Method

- Homodyne Systems

- Heterodyne Systems

#### Market segment by Application

- Wind Energy

- Marine

- Aviation

- Industrial

- Defense & Security

- Others

#### Major players covered

- ZX Lidars

NRG Systems

Lumibird Group

Aeva

Scantinel

Insight LiDAR

LSLiDAR

Vaisala

LightIC

SiLC Technologies

Voyant

Hesai 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 Continuous-wave Doppler LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Continuous-wave Doppler LiDAR, with price, sales quantity, revenue, and global market share of Continuous-wave Doppler

LiDAR from 2021 to 2026.

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

Chapter 4, the Continuous-wave Doppler LiDAR 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 Continuous-wave Doppler LiDAR 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 Continuous-wave Doppler LiDAR.

Chapter 14 and 15, to describe Continuous-wave Doppler LiDAR sales channel, distributors, customers, research findings and conclusion.

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