

Global Continuous-wave Doppler LiDAR Market Growth 2026-2032

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Abstracts

The global Continuous-wave Doppler LiDAR market size is predicted to grow from US\$ 528 million in 2025 to US\$ 1024 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

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.

United States market for Continuous-wave Doppler LiDAR is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Continuous-wave Doppler LiDAR is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Continuous-wave Doppler LiDAR is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Continuous-wave Doppler LiDAR players cover ZX Lidars, NRG Systems, Lumibird Group, Aeva, Scantinel, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Continuous-wave Doppler LiDAR Industry Forecast" looks at past sales and reviews total world Continuous-wave Doppler LiDAR sales in 2025, providing a comprehensive analysis by region and market sector of projected Continuous-wave Doppler LiDAR sales for 2026 through 2032. With Continuous-wave Doppler LiDAR sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Continuous-wave Doppler LiDAR industry.

This Insight Report provides a comprehensive analysis of the global Continuous-wave Doppler LiDAR landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Continuous-wave Doppler LiDAR portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Continuous-wave Doppler LiDAR market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Continuous-wave Doppler LiDAR and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Continuous-wave Doppler LiDAR.

This report presents a comprehensive overview, market shares, and growth opportunities of Continuous-wave Doppler LiDAR market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-beam Systems

Multi-beam Systems

Segmentation by Detection Method:

Homodyne Systems

Heterodyne Systems

Segmentation by Application:

Wind Energy

Marine

Aviation

Industrial

Defense & Security

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ZX Lidars

NRG Systems

Lumibird Group

Aeva

Scantinel

Insight LiDAR

LSLiDAR

Vaisala

LightIC

SiLC Technologies

Voyant

Hesai Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Continuous-wave Doppler LiDAR market?

What factors are driving Continuous-wave Doppler LiDAR market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Continuous-wave Doppler LiDAR market opportunities vary by end market size?

How does Continuous-wave Doppler LiDAR break out by Type, by Application?

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