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Global Ground-Based Laser Wind Radar 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 Ground-Based Laser Wind Radar market size was valued at US$ 167 million in 2025 and is forecast to a readjusted size of US$ 276 million by 2032 with a CAGR of 7.7% during review period.

Ground-based laser wind radar is a ground-based remote sensing wind sensing device that uses the laser Doppler principle to detect aerosol echo signals in the atmosphere and invert wind speed, wind direction, and turbulence characteristics at different altitudes. It is widely used in wind power, meteorology, aviation, and environmental monitoring.

Upstream components mainly include lasers, optical elements, detectors, signal processing chips, control systems, and precision structural components; downstream applications include wind farm site selection and operation and maintenance, meteorological observation, airport wind shear early warning, bridge and port safety monitoring, and scientific research testing.

The global market price for ground-based laser wind radar is US$95,000 per unit, with annual sales of approximately 1,708 units and a global annual production capacity of approximately 1,800-2,000 units. The industry profit margin is 11%.

In the future, the global market for ground-based laser wind radar will continue to develop towards higher precision, longer range, miniaturization, and intelligence. With the increasing demand for offshore wind power, low-altitude economy, smart meteorology, and airport safety management, its application scenarios will continue to expand. At the same time, the integration of equipment with digital platforms, AI

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algorithms, and multi-source sensing systems will accelerate, driving the upgrade of products from single wind measurement tools to comprehensive atmospheric perception and decision support systems.

This report is a detailed and comprehensive analysis for global Ground-Based Laser Wind Radar 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 Ground-Based Laser Wind Radar market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Ground-Based Laser Wind Radar market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Ground-Based Laser Wind Radar market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Ground-Based Laser Wind Radar market shares of main players, shipments in revenue ($ Million), sales quantity (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 Ground-Based Laser Wind Radar

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Ground-Based Laser Wind Radar 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 Vaisala, EMGO-Tech, Movelaser, Jinzhou Sunshine Technology, Halo Photonics, Hailianzhi, etc.

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

Market Segmentation

Ground-Based Laser Wind Radar 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

Pulse LiDAR

Continuous LiDAR

Market segment by Installation and Deployment Methods

Fixed

Vehicle-Mounted Mobile

Market segment by Altitude Measurement Capabilities

Low-Altitude Boundary Layer Type

Mid-To-High Altitude Profile Type

Extended Elevation Detection Type

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Market segment by Application

Wind Farm Assessment

Weather Detection And Forecasting

Atmospheric Physics Research

Major players covered

Vaisala

EMGO-Tech

Movelaser

Jinzhou Sunshine Technology

Halo Photonics

Hailianzhi

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:

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Chapter 1, to describe Ground-Based Laser Wind Radar product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ground-Based Laser Wind Radar, with price, sales quantity, revenue, and global market share of Ground-Based Laser Wind Radar from 2021 to 2026.

Chapter 3, the Ground-Based Laser Wind Radar competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ground-Based Laser Wind Radar 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 Ground-Based Laser Wind Radar 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 Ground-Based Laser Wind Radar.

Chapter 14 and 15, to describe Ground-Based Laser Wind Radar sales channel, distributors, customers, research findings and conclusion.

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