

LiDAR Market by Dimension Type (2D, 3D, 4D), Technology (Macro-mechanical LiDAR, Flash LiDAR), Installation Type, Wavelength, Range, Service, Application, End-use Industry, and Geography - Global Forecast to 2029

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Abstracts

LiDAR Market by Dimension Type (2D, 3D, 4D), Technology (Macro-mechanical LiDAR, Flash LiDAR), Installation Type, Wavelength, Range, Service, Application, End-use Industry, and Geography - Global Forecast to 2029

The research report titled 'LiDAR Market by Dimension Type (2D, 3D, 4D), Technology (Macro-mechanical LiDAR, Flash LiDAR), Installation Type, Wavelength, Range, Service, Application, End-use Industry, and Geography - Global Forecast to 2029', provides an in-depth analysis of the global LiDAR market across five major geographies and emphasizes on the current market size, market shares, recent developments, and forecast till 2029. The global LiDAR market is projected to reach \$20.03 billion by 2029 at a CAGR of 28.4% from 2022 to 2029.

The growth of the LiDAR market is driven by the rising adoption of LiDAR systems in unmanned aerial vehicles (UAVs), increasing adoption of LiDAR in engineering and construction applications, use of LiDAR for automated driving cars, the emergence of 4D LiDAR, and initiatives undertaken by government bodies of different countries to promote LiDAR Usage. Safety threats related to UAVs and autonomous cars and the easy availability of low-cost and lightweight photogrammetry systems may restrain the growth of this market. Furthermore, the increasing investments in LiDAR startups by OEMs, technological shifts with the adoption of solid-state, flash LiDAR, and other LiDAR technologies are expected to create significant growth opportunities for the players in this market.

However, the high cost of LiDAR services and scarcity of geospatial data pose a challenge to the growth of this market.

The LiDAR market is segmented by dimension type, technology, installation type, wavelength, range, service, application, end-use industry, and geography. The study also evaluates industry competitors and analyzes the market at regional and country levels.

Based on dimension type, the global LiDAR market is segmented into 2D, 3D, and 4D. The 4D segment is expected to register the highest CAGR during the forecast period. The rapid growth of this segment is attributed to the high adoption of 4D LiDAR in applications such as self-driving cars, robots, and other autonomous systems. Besides automobiles, 4D LiDAR has architecture, engineering, and construction (AEC), entertainment, and AR/VR applications.

Based on technology, the global LiDAR market is segmented into macro-mechanical LiDAR, flash LiDAR, MEMS LiDAR (micro-electromechanical systems), optical-phased array, and other technologies. The flash LiDAR segment is expected to register the highest CAGR during the forecast period. The rapid growth of this segment is growing due to emerging usage and high preferences for autonomous vehicles and defense. Flash LiDAR is widely deployed in autonomous cars with ADAS capabilities and robotics applications, where high speed and precision are required to create infographics. According to McKinsey Insights, by 2030, around 15% of vehicles are expected to be autonomous. Furthermore, the National Ocean and Atmospheric Administration (NOAA) plans to implement flash LiDAR to increase accuracy in the weather forecast.

Based on installation type, the LiDAR market is segmented into airborne and terrestrial. The terrestrial segment is expected to register the highest CAGR during the forecast period. Terrestrial LiDAR can be mobile and stationary and operated only on the surface of the Earth. Static terrestrial scanning is a frequently preferred survey method for monitoring, conventional topography, forensics, and cultural heritage documentation. Mobile & UAV LiDAR operates in both mobile and aerial modes and works on Earth's surface and surrounding environment.

Based on wavelength, the LiDAR market is segmented into 885 nm, 905 nm, 1064 nm, 1550 nm, and other wavelengths. The 1550 nm segment is expected to register the highest CAGR during the forecast period. Utilization of the 1550 nm wavelength is

growing due to its higher eye safety and potential to detect low reflectivity targets, such as any object within a radius of 300 m.

Based on range, the global LiDAR market is segmented into 885 nm, 905 nm, 1064 nm, 1550 nm, and other wavelengths. The medium range segment is expected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the growing usage across engineering and environment applications such as ecological land and classification and archaeology. Medium range LiDAR is widely used to capture the building structure.

Based on service, the global LiDAR market is segmented into aerial survey, asset management, GIS services, ground-based survey, and other services. The ground-based survey segment is expected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the potential of collecting a million points of data per second over the ground area, making it an exceptionally fast method of surveying. The ground-based survey gives much more accurate information for accurate ecological and land use classification. This survey is used to map the forests by measuring the vertical structures of the canopy and its density. These models help us understand the complex forest structures and generate accurate forest inventory.

Based on application, the global LiDAR market is segmented into mapping and cartography, coastline & shoreline mapping, pollution tracking, wind speed measurement, exploration, advanced driver assistance system (ADAS), meteorology, and other applications. The advanced driver assistance system (ADAS) segment is expected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the surging incorporation of LiDAR-based sensors in various automotive safety applications. In the last few years, assisted driving automobiles have gained traction in the market; these automobiles use cameras and LiDAR to sense the environment around them and avoid accidents. For instance, in July 2019, Velodyne Lidar Inc., a California-based Lidar technology company, announced the acquisition of localization and mapping software from Mapper.ai, Inc. This development is aimed at boosting the company's ADAS system production.

Based on end-use industry, the global LiDAR market is segmented into automotive, defense & aerospace, oil & gas, mining, civil engineering, government, transportation, and other end-use industries. In 2022, the government bodies segment is expected to account for the largest market share of the global LiDAR market. The growth of this segment is attributed to the need for surveying and monitoring surroundings, including forest management, coastline management, pollution modeling, agriculture, wind farms,

and precision forestry.

Based on geography, the LiDAR market is segmented into five major regions: North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. Asia Pacific is expected to register the highest CAGR during the forecast period. The growth of this segment is attributed to the increased focus on LiDAR modernization programs in the region. China, India, and Japan are expected to be the major markets in the region, as developed countries are expected to increasingly outsource their LiDAR mapping and surveying services to these countries in the near future.

Some of the key players operating in the LiDAR market are Trimble Inc. (U.S.), Leica Geosystems AG - Part of Hexagon (Switzerland), Sick AG (Germany), TOPCON CORPORATION (Japan), Velodyne Lidar, Inc. (U.S.), RIEGL Laser Measurement Systems GmbH (Austria), BEA SA (Belgium), Pepperl+Fuchs (India) Pvt. Ltd. (India), FARO Technologies, Inc. (U.S.), VALEO (France), Teledyne Optech (Canada), Shanghai Hesai Technology Co., Ltd. (China), LeddarTech Inc. (Canada), Suteng Innovation Technology Co., Ltd. (China), and Hokuyo Automatic USA Corporation (U.S.).

Key Questions Answered in the Report:

Which are the high-growth market segments in terms of dimension type, technology, installation type, wavelength, range, service, application, end-use industry, and geography?

What is the historical market size for LiDAR across the globe?

What are the market forecasts and estimates for the period 2022–2029?

What are the major drivers, restraints, opportunities, and challenges in the LiDAR market?

Who are the major players in the market, and what are their market shares?

How is the competitive landscape for the global LiDAR market?

What are the recent developments in the global LiDAR market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the global LiDAR market, and how do they compete with other players?

Scope of the Report

Global LiDAR Market, by Dimension Type

2D

3D

4D

Global LiDAR Market, by Technology

Macro-mechanical LiDAR

Flash LiDAR

MEMS LiDAR

Optical-phased Array

Other Technologies

Global LiDAR Market, by Installation Type

Airborne

Topographic LiDAR

Bathymetric LiDAR

Terrestrial

Mobile LiDAR

Static LiDAR

Global LiDAR Market, by Wavelength

885 nm

905 nm

1064 nm

1550 nm

Other Wavelength

Global LiDAR Market, by Range

Short Range (up to 10 m)

Medium Range (10 m to 100 m)

Long Range (More than 100 m)

Global LiDAR Market, by Service

Aerial Survey

Asset Management

GIS Services

Ground-based Survey

Other Services

Global LiDAR Market, by Application

Mapping and Cartography

Coastline & Shoreline Mapping

Pollution Tracking

Wind Speed Measurement

Exploration

Advanced Driver Assistance System (ADAS)

Meteorology

Other Applications

Global LiDAR Market, by Industry

Automotive

Defense & Aerospace

Oil & Gas

Mining

Civil Engineering

Government

Transportation

Other industries

Global LiDAR Market, by Geography

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

South Korea

India

Rest of Asia-Pacific

Middle East & Africa

Latin America

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