

Global LIDAR Market by Product (Terrestrial/Static, Aerial, Mobile, Short-range), and By Application (Corridor mapping, Seismology, Exploration and detection, Others), Industry trends, Estimation & Forecast, 2016 - 2024

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Abstracts

Global LIDAR Market by Product (Terrestrial/Static, Aerial, Mobile, Short-range), and By Application (Corridor mapping, Seismology, Exploration and detection, Others), Industry trends, Estimation & Forecast, 2016 - 2024

The global LiDAR market generated a revenue of \$332.2 million in 2016 and is expected to reach \$1.4 billion by 2024, having a CAGR of 21.4 % from 2017 to 2024. Among major technologies, Aerial LIDAR technology led the market garnering a revenue of \$182.5 million in 2016 and is expected to grow with the highest growth rate, having a CAGR of 17.4% during the forecast period.

Light Detection and Ranging also called as LiDAR, is a technology which uses pulsed laser in order to measure various ranges to the earth. The technology is capable of generating accurate and precise 3D information. LiDAR is mainly used for surveying. The process includes measuring distance of a target by hitting it with a pulsed laser light (mainly, ultraviolet, visible or near infrared light). The reflected laser then returns, having the information with it, which can be deduced using a sensor which calculates the difference in laser return time for the distance of the object and uses the wavelength to form a 3D image of the very target. LiDAR technology can be used to target various materials such as rocks, rain, clouds, chemicals and even molecules.

MARKET DYNAMICS

LiDAR technology is highly capable of giving excellent results in terms of image resolutions. This is a major factor driving the global LiDAR market. The increasing adoption of aerial LiDAR systems to explore and detect places and historic details is driving the market growth. Constantly advancing data processing abilities and steep growth in the demand of advanced 3D imaging technology is also expected to stimulate the growth of LiDAR market globally. However, high cost of LiDAR systems such as high resolution cameras and navigation systems, can resist the market growth. Additionally, the lack of awareness about LiDAR technology and its assistances is declining the market growth. However, the constantly rising demand of enhanced and improvised, fully automated vehicles has urged a huge requirement of LiDAR systems, acting as an opportunity for the market.

MARKET SEGMENTATION

The global LiDAR market is segmented on the basis of type, components used, application, end user sectors and geography. By type, the market is segmented as terrestrial, aerial, mobile and short range are. On the basis of components, the LiDAR system market is segmented as a laser scanner, inertial navigation system, camera, GPS receiver and micro-electro-mechanical system. Corridor mapping, seismology, and exploration and detection purpose are some major application of LIDAR systems. By end-user, the market is categorized as, defense and aerospace, civil engineering, archaeology, forestry and agriculture, mining industry and transportation. On the basis of geography, the LIDAR market is segmented as North America, Europe, Asia-Pacific, and LAMEA.

Some of the key market players of the global LiDAR market are Airborne Hydrography AB, Leosphere SaS, Faro Technologies Inc., Leica Geosystems Inc. (Hexagon), 3D Laser Mapping Inc., Firmatek LLC, RIEGL Laser Measurement Systems GmbH, Aerometric Inc., Mira Solutions Inc., Optech Inc. (Teledyne Technologies), Quanergy Systems, Inc.

Global LiDAR MARKET SEGMENTATION

By Product Type

Terrestrial/Static

Aerial

Mobile

Short-range

By Application

Corridor mapping

Seismology

Exploration and detection

Others

By Components

Laser

Inertial navigation system

Camera

Gps/Gnss receiver

Micro Electro Mechanical System (MEMS)

By End-User

Defense and aerospace

Civil Engineering

Archaeology

Forestry and Agriculture

Mining Industry

Transportation

By Geography

North America

Europe

Asia-Pacific

Rest of World

KEY MARKET PLAYER

Velodyne

IBEO automotive systems GmbH

Hokuyo Automatic Co. Ltd.

Airborne Hydrography AB

Leosphere SaS

Faro Technologies Inc.

Leica Geosystems Inc. (Hexagon)

3D Laser Mapping Inc

Firmatek LLC

RIEGL Laser Measurement Systems GmbH

Aerometric Inc.

Optech Inc.

Quanergy Systems, Inc

Mira Solutions Inc.

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