

LiDAR Drone Market Expected to Soar to US\$ 2,376.83 Million With Growing at an 28.3% CAGR From 2025 to 2034

Progressions in drone autonomy worldwide are a prominent factor driving the LiDAR drone market.

NEW YORK CITY, NY, UNITED STATES, February 17, 2025 /EINPresswire.com/ -- The LiDAR drone market forecast for 2034 is a specialized study of the industry with a specific concentration on the global market trend analysis.



LiDAR armed drones generate highly resolute maps of terrains, structures, and vegetation even in provoking or isolated environments by utilizing laser pulses to calculate distances”

Polaris Market Research

The market is projected to reach US\$ 2,376.83 million by 2034, growing at a CAGR of 28.3% from 2025 to 2034.

What is a LiDAR drone?

A LiDAR drone is any aerial drone with LiDAR sensors connected. Lately, invention in LiDAR technology has

fiercely lessened both the price and size of LiDAR sensors rendering it more attainable to connect a LiDAR payload to a drone. And as they become more common, the details they can offer are more precise and less costly.

For more information, visit the report page:

https://www.polarismarketresearch.com/industry-analysis/lidar-drone-market/request-for-sample?utm_source=EIN&utm_medium=EIN&utm_campaign=EIN&utm_id=01

These developments, together with progressions in technology utilized to combine drones with LiDAR data, have caused a speedy escalation in firms installing drones armed with LiDAR as an integrated, comprehensive 3D mapping system. Progressions in weightless LiDAR sensors and cloud-based data processing are impacting the LiDAR drone market growth favorably.

Who are the prominent market contenders?

Prominent market contenders are funding massively in R&D in order to augment their offerings

which will assist the market to grow even more. Here are some of the leading players in the LiDAR drone market:

- DJI
- Leica Geosystems AG
- Mapix Technologies Ltd
- Phoenix LiDAR Systems.
- Quanergy Solutions, Inc.
- RIEGL Laser Measurement Systems GmbH
- Teledyne Geospatial.
- Trimble Inc.
- YELLOWSCAN

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• In May 2022, Flyability, a Switzerland-dependent firm that outlines and makes drones for industrial scrutiny and analysis, revealed the Elios 3.

• In June 2021, Velodyne LiDAR, Inc. initiated the next generation of its Velabit LiDAR sensor. It aims to target the price, security and outline provocations of automobile, sidewalk, industry, and UAV mapping.

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Technological Progressions: Progression in drone autonomy, weightless LiDAR sensors, and cloud-dependent data processing have speeded the acquisition of LiDAR drones worldwide, thus pushing the market forward.

Growing Usage in High-Resolution Mapping: LiDAR drones provide unparalleled accuracy and productivity in seizing comprehensive terrain data, rendering them crucial for sectors such as construction, agriculture, forestry, mining, and urban planning. This, in turn, is having a favorable impact on LiDAR drone market sales.

Rise In Smart Cities: The surging smart city enterprises, such as the amalgamation of progressive technologies, play an important part in modifying urban topography into productive, sustainable, and inventive smart cities.

POLARIS MARKET RESEARCH **LiDAR Drone Market**

US\$ 2,376.83 MN
Revenue Forecast in 2034

LiDAR Drone Market

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North America: North America accounted for the largest LiDAR drone market share. The region's robust growth is primarily due to growing funding in technology and framework.

Asia Pacific: Asia Pacific is anticipated to witness significant growth from 2025 to 2034. This can be attributed to speedy urbanization and smart city projects in nations such as China and India.

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By Application Outlook:

- Agriculture and Forestry
- Construction and Infrastructure
- Mining
- Environmental Monitoring
- Defense and Security

By Component Outlook:

- LiDAR Sensors
- Cameras
- Navigation Systems
- Drone Platforms
- Software Solutions

By Drone Type Outlook:

- Fixed-Wing Drones
- Multirotor Drones
- Hybrid Drones

By Regional Outlook:

- North America
 - o US
 - o Canada
- Europe
 - o Germany
 - o France
 - o UK
 - o Italy
 - o Spain
 - o Netherlands
 - o Russia
 - o Rest of Europe

- Asia Pacific
 - o China
 - o Japan
 - o India
 - o Malaysia
 - o South Korea
 - o Indonesia
 - o Australia
 - o Vietnam
 - o Rest of Asia Pacific

- Middle East & Africa
 - o Saudi Arabia
 - o UAE
 - o Israel
 - o South Africa
 - o Rest of the Middle East & Africa

- Latin America
 - o Mexico
 - o Brazil
 - o Argentina
 - o Rest of Latin America

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How much is the LiDAR drone market?

The global market size was valued at USD 197.14 million in 2024 and is projected to grow to USD 2,376.83 million by 2034.

Who are the key players in the LiDAR drone market?

Some of the key players in the market are DJI, Mapix Technologies Ltd, RIEGL Laser Measurement Systems GmbH, Teledyne Geospatial; Leica Geosystems AG, Phoenix LiDAR Systems, YELLOWSCAN, Quanergy Solutions, Inc., Trimble Inc.; Microdrones.

Which application segment dominated the market in 2024?

The construction and infrastructure segment dominated the market in 2024.

Which segments are covered in the market?

The market covers segments such as application, component and drone type.

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