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Global Drone LiDAR Sensor Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GA3BFEF1769FEN.html
Date: July 2026
Pages: 116
Price: US$ 4,480.00 (Single User License)
ID: GA3BFEF1769FEN

Abstracts

The global Drone LiDAR Sensor market size is expected to reach $ 178 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

A Drone LiDAR Sensor is a compact laser ranging and scanning module designed to be integrated into unmanned aerial vehicle platforms. The sensor emits laser pulses and measures their return time to generate high-precision distance and elevation data. Compared with complete LiDAR camera systems, standalone LiDAR sensors emphasize lightweight design, modular integration, and flexible compatibility with different UAV platforms, making them suitable for mapping, obstacle avoidance, inspection, and environmental monitoring applications. The overall average price of Drone LiDAR Sensors approximately USD 10,000?18,000 per unit, global annual sales of roughly 7,000?12,000 units per year.

Upstream of the drone LiDAR sensor industry includes laser diodes, photodetectors, optical lenses, MEMS or galvanometer scanning components, IMU modules, signal processing chips, and lightweight housing materials. Midstream manufacturers are mainly located in China, the United States, and Europe, focusing on sensor design, optical?electrical integration, calibration, and firmware development. Downstream applications involve UAV manufacturers, LiDAR system integrators, surveying companies, industrial inspection service providers, and autonomous flight solution developers. End users place strong emphasis on ranging accuracy, sensor weight, power consumption, environmental robustness, and compatibility with mainstream UAV control systems.

The drone LiDAR sensor market is expanding steadily as UAV platforms become lighter and more application-specific. Demand is driven by the need for modular, cost-effective

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sensing solutions in mapping, inspection, and autonomous navigation. Compared with full LiDAR camera systems, sensors offer greater flexibility for system integrators and drone manufacturers, accelerating adoption in mid-range and professional UAV segments. Technological trends include higher integration levels, MEMS-based scanning, and improved power efficiency. Although price competition is intensifying, differentiation through accuracy, reliability, and ecosystem compatibility remains key. Overall, drone LiDAR sensors are expected to play an increasingly critical role in scalable aerial sensing solutions.

This report studies the global Drone LiDAR Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Drone LiDAR Sensor and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Drone LiDAR Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Drone LiDAR Sensor total production and demand, 2021-2032, (Units)
Global Drone LiDAR Sensor total production value, 2021-2032, (USD Million)
Global Drone LiDAR Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Drone LiDAR Sensor consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Drone LiDAR Sensor domestic production, consumption, key domestic manufacturers and share
Global Drone LiDAR Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Drone LiDAR Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Drone LiDAR Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Drone LiDAR Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RIEGL, Teledyne Optech, DJI, Livox, Ouster,

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Hesai Technology, RoboSense, Benewake, SureStar, LSLiDAR, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Drone LiDAR Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Drone LiDAR Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Drone LiDAR Sensor Market, Segmentation by Type:

Short-Range

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Medium-Range

Long-Range

Global Drone LiDAR Sensor Market, Segmentation by Surveying Accuracy:

Survey Grade

Industrial Inspection Grade

Consumer Grade

Global Drone LiDAR Sensor Market, Segmentation by Detection Technology:

Mechanical Scanning LiDAR Sensor

Semi-Solid-State LiDAR Sensor

Solid-State LiDAR Sensor

Global Drone LiDAR Sensor Market, Segmentation by Application:

Mapping and Land Surveying

Forestry and Agriculture

Power and Infrastructure Inspection

Mining and Construction

Others

Companies Profiled:

RIEGL

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Teledyne Optech

DJI

Livox

Ouster

Hesai Technology

RoboSense

Benewake

SureStar

LSLiDAR

Blickfeld

Cepton, a Koito Group Company

SICK

Aeva

Key Questions Answered:
1. How big is the global Drone LiDAR Sensor market?
2. What is the demand of the global Drone LiDAR Sensor market?
3. What is the year over year growth of the global Drone LiDAR Sensor market?
4. What is the production and production value of the global Drone LiDAR Sensor market?
5. Who are the key producers in the global Drone LiDAR Sensor market?
6. What are the growth factors driving the market demand?

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