

Global Photovoltaic Drone Inspection Services Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Photovoltaic Drone Inspection Services market size is predicted to grow from US\$ 1392 million in 2025 to US\$ 5804 million in 2032; it is expected to grow at a CAGR of 23.4% from 2026 to 2032.

Photovoltaic drone inspection service refers to the use of industrial-grade drones equipped with visible light, infrared thermal imaging, and AI image recognition systems to conduct fully automated aerial inspections of centralized, distributed, or rooftop photovoltaic power stations. It collects real-time data on defects such as hot spots, microcracks, dust, and shading on modules, automatically generating defect location maps and maintenance work orders in the cloud. This helps power stations achieve intelligent operation and maintenance outsourcing services that reduce costs, increase efficiency, and create a closed-loop system.

In 2025, the gross profit margin of mainstream service providers in the market was 28%–35%, higher than that of oil and gas but slightly lower than that of the power grid. This is mainly due to the high maturity of photovoltaic module defect identification algorithms, simple airspace approval, and intense price competition among customers who are sensitive to 'increased power generation.'

United States market for Photovoltaic Drone Inspection Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Photovoltaic Drone Inspection Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Photovoltaic Drone Inspection Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Photovoltaic Drone Inspection Services players cover AETOS Group, Intertek, Flyability, Landpoint, Droneify, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Photovoltaic Drone Inspection Services Industry Forecast" looks at past sales and reviews total world Photovoltaic Drone Inspection Services sales in 2025, providing a comprehensive analysis by region and market sector of projected Photovoltaic Drone Inspection Services sales for 2026 through 2032. With Photovoltaic Drone Inspection Services sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photovoltaic Drone Inspection Services industry.

This Insight Report provides a comprehensive analysis of the global Photovoltaic Drone Inspection Services landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Photovoltaic Drone Inspection Services portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photovoltaic Drone Inspection Services market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic Drone Inspection Services and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photovoltaic Drone Inspection Services.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic Drone Inspection Services market by product type, application, key players and key regions and countries.

Segmentation by Type:

Fixed-wing

Multi-rotor

Hybrid (Fixed-wing VTOL)

Segmentation by Periods:

Daytime Inspection

Nighttime Covert Inspection

24-hour Continuous Patrol

Segmentation by Operating Modes:

Manual Remote Control

Semi-Automatic

Fully Automatic

Segmentation by Application:

Centralized Ground-Mounted Power Station

Mountainous Power Station

Rooftop Distributed Power Station

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

AETOS Group

Intertek

Flyability

Landpoint

Droneify

FORCE Technology

Equinox's Drones

SmartDrones

Mile High Drones

AIRPIX

Altitude Sight

Viper Drones

Dexon Technology

UAVOS

SIRON Deluge Services

ICR Group

C Drones

Airscope

Terra Drone

GarudaUAV

MIS Group

AUAV

Beijing Zhongfei Aiwei Aviation Technology

Autel Robotics

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