

# **Global Earth Observation Drones Market Size Study, By Wing (Fixed, Rotary, Hybrid), By Power Source (Fuel, Battery, Hybrid), By Payloads (Imaging Payloads, Sensors, Combined), By Mode of Operation (Remote, Semi-autonomous, Autonomous), By Application (Agriculture & Forestry, Energy & Utilities, Construction, Environmental Monitoring, Mining & Exploration, Others), By End-user (Government & Defense, Commercial, Others), and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Earth Observation Drones Market is valued approximately at USD 4.8 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 12.0% over the forecast period 2024-2032. Earth observation drones, equipped with advanced imaging payloads and sensors, have revolutionized the ability to gather precise and real-time data across various sectors. These sectors include agriculture, environmental monitoring, disaster management, and more, driving the increasing demand for efficient remote sensing and surveillance solutions. Technological advancements in drone technology have significantly enhanced data gathering capabilities, enabling detailed monitoring of land use, crop health, and natural disasters. For instance, in January 2024, DJI introduced its latest drone series Dock 2, optimized for environmental monitoring with state-of-the-art sensors and imaging technology, delivering high-resolution aerial data for scientific research and conservation efforts. The enhanced features of these drones, including lightweight design and reduced volume, make them highly efficient and convenient for transportation.

The robust growth in the Earth Observation Drones Market is driven by several factors, including the rising adoption of precision agriculture techniques and expanding applications in environmental monitoring. Additionally, increasing regulatory support and incentives for aerial survey services and environmental monitoring initiatives contribute to market growth. However, challenges such as high initial costs, regulatory hurdles related to airspace regulations, and complexities in data processing and analysis may impede market expansion.

The key regions considered for the global Earth Observation Drones Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. North America dominated the global Earth Observation Drones Market in 2023, driven by advanced technological capabilities and significant investments in aerospace and defense sectors. Asia Pacific region is poised to register fastest growth, rapid economic growth and technological advancement are key drivers, with countries like China, Japan, and India investing heavily in drone technology for agriculture, disaster management, and infrastructure development.

Major market players included in this report are:

DJI

Teledyne Technologies Incorporated

Parrot Drone SAS.

AeroVironment, Inc.

Skydio, Inc.

FLIR Systems

Yuneec

Acecore Technologies

Aeryon Labs

Autel Robotics

Lockheed Martin Corporation

Airbus

DroneShield Ltd

senseFly

3D Robotics (3DR)

The detailed segments and sub-segment of the market are explained below:

By Wing:

Fixed

Rotary

Hybrid

By Power Source:

Fuel

Battery

Hybrid

By Payloads:

Imaging Payloads

Sensors

Combined

By Mode of Operation:

Remote

Semi-autonomous

Autonomous

By Application:

Agriculture & Forestry

Energy & Utilities

Construction

Environmental Monitoring

Mining & Exploration

Others

By End-user:

Government & Defense

Commercial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2021-2023

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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