

Agriculture Drones Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global agriculture drones market size reached US\$ 1,530.1 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 9,558.4 Million by 2028, exhibiting a growth rate (CAGR) of 35.65% during 2023-2028.

Agriculture drones are remotely piloted aircraft systems (RPAS) that carry out manual activities and provide crop status and livestock movement in real-time. They comprise propulsion systems and programmable controllers with satellite navigation to remotely control wireless communication and travel a predefined path using complex algorithms. They are retrofitted with different payloads of sensors with digital imaging capabilities, such as multispectral, high-resolution camera systems, and actuators. As a result, they are widely utilized for field surveying, crop scouting, spraying, spreading, and surveillance in livestock and fisheries.

Agriculture Drones Market Trends:

Governing agencies of numerous countries imposed lockdown restrictions to prevent the spread of the coronavirus disease (COVID-19). This resulted in labor shortage and positively influenced the need for agriculture drones to facilitate farming activity while complying with stringent regulations. Apart from this, a significant part of the global population suffers from famine and malnutrition due to limited food supply and the unavailability of adequate arable land. Consequently, agriculture drones are used for pesticide spraying, minimizing labor-intensive work, and improving crop yield. In addition, the growing adoption of modern agricultural practices is contributing to market growth. Moreover, the integration of artificial intelligence (AI) and machine learning (ML) with normalized difference vegetation index (NDVI) imaging technology provides high-resolution images. These images are used to understand soil conditions, plant health,

and crop yield prediction, which is impelling the market growth. Furthermore, leading market players are introducing drones with automated flight planning features to improve the scale of operation and productivity. These drones help farmers reduce the impact of climate change and unpredictable weather, calculate the land size, and develop soil maps. These innovations are projected to strengthen the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global agriculture drones market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on offering, component, farming environment and application.

Breakup by Offering:

- Hardware
 - Fixed Wing
 - Rotary Wing
 - Hybrid Wing
- Software
 - Data Management Software
 - Imaging Software
 - Data Analytics Software
- Others

Breakup by Component:

- Controller Systems
- Propulsion Systems
- Cameras
- Batteries
- Navigation Systems
- Others

Breakup by Farming Environment:

- Indoor
- Outdoor

Breakup by Application:

- Field Mapping
- Variable Rate Application
- Crop Scouting
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others
- Latin America
 - Brazil
 - Mexico
 - Others
- Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3D Robotics Inc., AeroVironment Inc., AGCO Corporation, AgEagle Aerial Systems Inc., American Robotics Inc. (Ondas Holdings Inc.), DJI, DroneDeploy, Parrot Drone SAS, PrecisionHawk, Trimble Inc. and Yamaha

Motor Co. Ltd.

Key Questions Answered in This Report

1. What was the size of the global agriculture drones market in 2022?
2. What is the expected growth rate of the global agriculture drones market during 2023-2028?
3. What are the key factors driving the global agriculture drones market?
4. What has been the impact of COVID-19 on the global agriculture drones market?
5. What is the breakup of the global agriculture drones market based on the offering?
6. What is the breakup of the global agriculture drones market based on component?
7. What is the breakup of the global agriculture drones market based on the farming environment?
8. What is the breakup of the global agriculture drones market based on the application?
9. What are the key regions in the global agriculture drones market?
10. Who are the key players/companies in the global agriculture drones market?

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