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Satellite Imaging for Agriculture Market Forecasts to 2032 – Global Analysis By Farm Type (Large, scale Commercial Farms, Smallholder Farms, Medium-scale Farms, and Other Farm Types), Offering, Deployment Mode, Technology, Application, End User and By Geography

https://marketpublishers.com/r/SB1C906140FFEN.html
Date: May 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: SB1C906140FFEN

Abstracts

According to Stratistics MRC, the Global Satellite Imaging for Agriculture Market is accounted for $677.60 million in 2025 and is expected to reach $1279.01 million by 2032 growing at a CAGR of 9.5% during the forecast period. Satellite imaging for agriculture uses remote sensing technology from satellites to monitor and manage farming activities. It provides detailed data on crop health, soil conditions, irrigation levels, and weather impacts. This information helps farmers make informed decisions, improve yields, and reduce resource waste. By enabling precision farming, satellite imaging supports sustainable agriculture and early detection of issues such as pests, diseases, or drought stress across large agricultural areas.

Market Dynamics:

Driver:

Increased adoption of smart farming

The rising need for precision agriculture is driving widespread adoption of satellite imaging in farming operations. Farmers are leveraging high-resolution satellite data to monitor crop health, soil conditions, and irrigation needs more effectively. Governments worldwide are promoting smart farming initiatives to enhance food security and optimize

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resource usage. Advanced satellite analytics enable real-time decision-making, improving yield predictions and reducing waste. As a result, satellite imaging is becoming an essential tool in modern agricultural practices.

Restraint:

High initial investment

The deployment of satellite imaging technology requires significant upfront costs for hardware, software, and data subscriptions. Small and medium-sized farms often struggle to afford these advanced systems, limiting market penetration. Additionally, the need for skilled personnel to interpret satellite data adds to operational expenses. Maintenance and periodic upgrades further increase the total cost of ownership. These financial barriers hinder the widespread adoption of satellite imaging in agriculture, particularly in developing regions.

Opportunity:

Rising awareness of sustainable farming practices

Growing environmental concerns are pushing farmers toward sustainable agriculture, creating new opportunities for satellite imaging. Precision farming techniques enabled by satellite data help reduce water usage, minimize chemical inputs, and lower carbon footprints. Governments and NGOs are funding programs to encourage eco-friendly farming with satellite-based monitoring. Consumers' increasing preference for sustainably produced food further drives demand for these technologies. Companies offering cost-effective satellite solutions stand to benefit from this expanding market.

Threat:

Lack of standardized data formats

The absence of uniform data standards complicates the integration of satellite imaging with other agricultural technologies. Different providers use varying formats, making it difficult for farmers to consolidate and analyze data efficiently. This inconsistency also limits interoperability between farm management software and satellite platforms. Without industry-wide standardization, adoption rates may slow as users face compatibility challenges. Addressing this issue is crucial for seamless implementation across diverse agricultural systems.

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Covid-19 Impact

The COVID-19 pandemic initially presented challenges for the Satellite Imaging for Agriculture market. Lockdowns and economic uncertainties led to potential delays in satellite launches and impacted the investment capacity of some farmers, possibly delaying technology adoption. However, the pandemic also highlighted the importance of remote monitoring in agriculture due to restricted movement and labour shortages. This increased the recognition of satellite imaging as a crucial tool for crop health monitoring, yield forecasting. Consequently, the demand for satellite imaging in agriculture is expected to have grown post-pandemic, driven by the need for sustainable and efficient farming practices.

The data services segment is expected to be the largest during the forecast period

The data services segment is expected to account for the largest market share during the forecast period, due to increasing demand for processed and actionable agricultural insights. Farmers rely on service providers for analytics, crop health reports, and yield forecasting derived from satellite imagery. Subscription-based models offer cost-effective access to real-time data without heavy infrastructure investments. Companies are also integrating AI to enhance data accuracy and predictive capabilities.

The research institutes segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the research institutes segment is predicted to witness the highest growth rate, fuelled by rising demand for precision farming, climate monitoring, and sustainable agricultural practices. Government funding, technological advancements in remote sensing, and increasing collaborations with space agencies further fuel innovation. These institutes focus on crop health monitoring, yield prediction, and resource optimization, supporting food security initiatives and aiding policymakers and agribusinesses in data-driven decision-making for efficient agricultural management.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to its vast agricultural sector and increasing government support for agri-tech. Countries like India and China are deploying satellite imaging to enhance food

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production for their large populations. Favourable policies promoting digital farming and subsidies for smallholders accelerate adoption. The region's focus on reducing post-harvest losses through better monitoring also contributes to growth.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, fuelled by advanced farming infrastructure and strong R&D investments. The U.S. and Canada are early adopters of satellite technology for large-scale precision agriculture. Private sector players are developing high-resolution imaging solutions tailored to regional crop needs. Supportive regulations and funding for sustainable farming practices further propel market growth.

Key players in the market

Some of the key players profiled in the Satellite Imaging for Agriculture Market include Planet Labs PBC, Airbus Defence and Space, Maxar Technologies, EOS Data Analytics (EOSDA), Farmonaut, Pixxel, ICEYE, Satellogic, European Space Imaging, Satellite Imaging Corporation (SIC), L3Harris Technologies, Esri, GEOSAT, Syngenta, and Farmers Edge Inc.

Key Developments:

In April 2025, L3Harris Technologies has signed a strategic Memorandum of Understanding (MOU) between its SAMI-L3Harris Joint Venture (JV) and Zamil Shipyards, a leading maritime company based in Saudi Arabia. The MOU will advance local maritime engineering by incorporating autonomous technology into existing and next-generation vessels.

In November 2024, McDonald's USA and Syngenta North America, a leader in agricultural technology, announced a collaboration that aims to increase feed efficiency and help reduce the amount of greenhouse gas emissions released per pound of meat produced, as part of efforts to improve the sustainability of beef production.

Farm Types Covered:

- Large-scale Commercial Farms
- Smallholder Farms

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- Medium-scale Farms
- Other Farm Types

Offerings Covered:

- Data Services
- Imaging Services
- Software Solutions
- Hardware

Deployment Modes Covered:

- Cloud-Based
- On-Premise

Technologies Covered:

- Remote Sensing
- Synthetic Aperture Radar (SAR)
- Geospatial Imaging
- Thermal Imaging
- Multispectral Imaging
- Hyperspectral Imaging
- Other Technologies

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Applications Covered:

- Crop Monitoring
- Livestock Monitoring
- Soil Mapping
- Farm Resource Planning
- Irrigation Management
- Agricultural Insurance
- Field Mapping
- Weather Forecasting & Climate Monitoring
- Yield Monitoring
- Pest & Disease Detection
- Other Applications

End Users Covered:

- Agribusinesses
- Environmental Agencies
- Agricultural Cooperatives
- AgTech Companies
- Government Agencies

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- Individual Farmers
- Research Institutes
- Insurance Companies
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China

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India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

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- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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