

Global Unmanned Plant Protection Equipment Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC17A5EEE69FEN.html>

Date: June 2026

Pages: 137

Price: US\$ 4,480.00 (Single User License)

ID: GC17A5EEE69FEN

Abstracts

The global Unmanned Plant Protection Equipment market size is expected to reach \$ 3807 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

Unmanned plant protection equipment refers to intelligent agricultural machinery that utilizes technologies such as unmanned driving, autonomous navigation, intelligent sensing, precision application, and remote control to manage crops?specifically for pest, disease, and weed control, fertilization, spraying, field monitoring, and operational management. This category of equipment typically encompasses plant protection drones, unmanned boom sprayers, automated orchard sprayers, unmanned agricultural platforms, intelligent variable-rate spraying systems, liquid mixing systems, RTK navigation systems, visual recognition systems, and operational management platforms. These systems are capable of executing plant protection tasks in farmlands, orchards, tea plantations, woodlands, and facility-based agriculture environments with minimal or no human intervention. Compared to traditional manual spraying and standard mechanical plant protection methods, unmanned equipment offers distinct advantages: high operational efficiency, more precise chemical application, reduced risk of pesticide exposure for personnel, strong adaptability to complex terrains, and data traceability. Consequently, it is widely deployed in scenarios involving the control of pests and diseases in rice, wheat, corn, cotton, fruit trees, vegetables, tea, cash crops, and forestry.

The upstream segment of the unmanned plant protection equipment industry chain primarily comprises flight control systems, RTK/BeiDou navigation modules, radar/visual sensors, spray nozzles, chemical tanks, water pumps, motors, batteries, unmanned vehicle chassis, variable-rate spraying control systems, pesticide formulations, field

mapping data, and operational management software. The midstream segment consists of manufacturers of plant protection drones, unmanned sprayers, automated orchard sprayers, unmanned agricultural platforms, and smart plant protection operational systems. Key processes within this segment include complete machine design, precision application control, automatic obstacle avoidance, path planning, variable-rate spraying, remote supervision, and operational data management; for instance, DJI Agriculture solutions already provide digital, intelligent, and precision field management capabilities for staple crops such as rice, wheat, and corn. The downstream segment primarily targets large-scale growers, agricultural conglomerates, cooperatives, agricultural service providers, pesticide manufacturers, orchard/tea plantation/forestry operators, and local agricultural plant protection agencies, serving purposes such as pest, disease, and weed control, foliar fertilization, broadcasting, field monitoring, and centralized pest management. The gross profit margin for unmanned plant protection equipment stands at approximately 37%.

In 2025, the average price of unmanned plant protection equipment is projected to be \$20,000 per unit, with sales reaching 89.25 k units and total production capacity standing at 127.5 k units.

From the perspective of agricultural production efficiency, the core value of unmanned plant protection equipment lies in alleviating agricultural labor shortages and enhancing operational efficiency. Traditional manual spraying is labor-intensive, inefficient, and entails risks associated with pesticide exposure; in contrast, unmanned plant protection equipment?utilizing drones, autonomous sprayers, automatic navigation systems, and variable-rate application systems?enables large-scale, high-frequency, and standardized operations. This technology is particularly well-suited for scenarios requiring concentrated pest and disease control, such as rice paddies, wheat fields, cornfields, cotton fields, orchards, and tea plantations. For large-scale growers, agricultural cooperatives, and farm service companies, this equipment significantly increases the area covered per unit of time while reducing reliance on manual labor.

From the perspective of precision agriculture, unmanned plant protection equipment is evolving from merely 'replacing manual spraying' to enabling 'precise chemical application and data-driven management.' While early plant protection equipment primarily addressed issues of spraying efficiency, current systems place greater emphasis on RTK positioning, field modeling, flight path planning, variable-rate application, obstacle avoidance, liquid flow control, and operational data transmission. By integrating with pest and disease monitoring systems, remote sensing technologies, field mapping data, and operational management platforms, unmanned plant protection

equipment can minimize pesticide waste, improve application uniformity, mitigate environmental pollution risks, and assist agricultural entities in establishing traceable records of their plant protection activities.

Regarding future trends, unmanned plant protection equipment is poised to evolve toward larger scale, greater intelligence, platform-based integration, and service-oriented models. Future market competition will hinge not only on the payload capacity, endurance, and spraying efficiency of individual units but also on an enterprise's ability to deliver comprehensive, integrated solutions encompassing the hardware itself, navigation systems, pesticide compatibility, operational platforms, after-sales maintenance, and aerial application services. Driven by the advancement of large-scale farming operations, unified pest and disease control strategies, smart agriculture initiatives, and agricultural machinery automation, unmanned plant protection equipment will continue to gain traction across markets for staple crops, cash crops, orchards and forestry, and agricultural socialized services. Consequently, the industry is expected to gradually transition from a model focused solely on equipment sales to a comprehensive paradigm integrating 'equipment + operational services + data management.'

This report studies the global Unmanned Plant Protection Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Unmanned Plant Protection Equipment 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 Unmanned Plant Protection Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Unmanned Plant Protection Equipment total production and demand, 2021-2032, (Units)

Global Unmanned Plant Protection Equipment total production value, 2021-2032, (USD Million)

Global Unmanned Plant Protection Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Unmanned Plant Protection Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Unmanned Plant Protection Equipment domestic production,

consumption, key domestic manufacturers and share

Global Unmanned Plant Protection Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Unmanned Plant Protection Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Unmanned Plant Protection Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Unmanned Plant Protection Equipment 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 Hyllo, Pyka, GUSS Automation, Carbon Robotics, Ecorobotix, ABZ Innovation, Naio Technologies, ONE SMART SPRAY, Yamaha Motor, Yanmar, 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 Unmanned Plant Protection Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Unmanned Plant Protection Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Unmanned Plant Protection Equipment Market, Segmentation by Type:

Ground Equipment

Aerial Equipment

Others

Global Unmanned Plant Protection Equipment Market, Segmentation by Medicine Box Capacity:

Small-Scale Equipment (Tank Capacity

Medium-Scale Equipment (Tank Capacity 20?50 Liters)

Large-Scale Equipment (Tank Capacity > 50 Liters)

Global Unmanned Plant Protection Equipment Market, Segmentation by Degree of Automation:

Semi-Automatic Plant Protection Equipment

Automatic Plant Protection Equipment

Global Unmanned Plant Protection Equipment Market, Segmentation by Application:

Commercial

Home

Companies Profiled:

Hyllo

Pyka

GUSS Automation

Carbon Robotics

Ecorobotix

ABZ Innovation

Naio Technologies

ONE SMART SPRAY

Yamaha Motor

Yanmar

Kubota

Nileworks

DJI

XAG

EAVISION

TopXGun

TTA

Hanhe Aviation

Qifei Intelligent

Quanfeng Aviation

Key Questions Answered:

1. How big is the global Unmanned Plant Protection Equipment market?
2. What is the demand of the global Unmanned Plant Protection Equipment market?
3. What is the year over year growth of the global Unmanned Plant Protection Equipment market?
4. What is the production and production value of the global Unmanned Plant Protection Equipment market?
5. Who are the key producers in the global Unmanned Plant Protection Equipment market?
6. What are the growth factors driving the market demand?

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