Innovation & Advantage of Drone Sprayer

VS



Drone Precision Spraying System(DPSS)





"...when you are trying something new, hard, or innovative, failure is not only inevitable, but it is also sometimes necessary ..."



Future of Farming? Precision Spraying!





What is Drone Precision Spraying System?

. A intelligent Flight Controller

Provides reliability during flight, When used with the Intelligent Operation Planning System and the Agriculture Management Platform, a user can plan operations, manage flights in real-time, and closely monitor aircraft operating status. Its algorithm has been optimized for agricultural utilizations, ensuring stable flight even with sloshing liquids. If an error occurs in one sensor, the system will automatically switch to the other sensor to continue safe, reliable flight.

. A precision spraying system

A new spraying system enables more accurate spraying. With compatible pumps controlling nozzles, The new pressure sensor and flow sensor monitor the spraying rate in real-time, realizing dynamic control over spray speed and amount during operation. Nozzles with extended spray booms have been used to make better use of downward airflows. This spraying system responds accurately to commands, adding accuracy and effectiveness to spraying operations.

A professional Platform and Ground station

Advanced SHTT Spread-spectrum Technology
Dual Receiver Interconnected / Dual Redundancy / PWM Channel Expanding
Parameter Adjustment on PC



Comparison of Drone Sprayer

Drone Sprayer	Knapsack sprayer	Tractor sprayer	Elevated spraying vehicle
20-25 hectares/day	0.8-1.3 hectares/day	6.7-20 hectares/day	66.7-80 hectares/day

Test Effective Picture Of Spraying







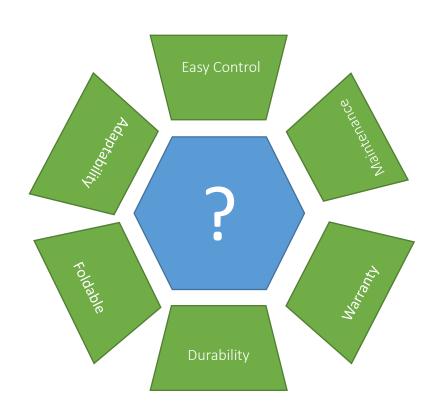


Advantage of Drone Sprayer

Compare	Drone	Knapsack sprayer	Tractor sprayer	Elevated spraying vehicle
Pesticide utilization efficiency	85%	30%	30%	30%
Adaptability	mountain, hilly terrain and paddy field.	Crop, flower and fruit are easily damaged, trampled or dropped by human.	Can't work in mountain or hilly terrain.	Can't work in mountain or hilly terrain.
Water consumption per hectare	Spraying uniformly with low dilution rate and high concentrated liquid pesticide, the water can be saved up to 90%	Traditional immersion jet spraying, resulting in waste of water, and most of the pesticides lost into the soil along with water.	Traditional immersion jet spraying, resulting in waste of water, and most of the pesticides lost into the soil along with water.	Traditional immersion jet spraying, resulting in waste of water, and most of the pesticides lost into the soil along with water.
Safety	Away from field during spraying to avoid the pesticide poisoning	Pesticides enter human body by mouth, easily lead to pesticide poisoning.	Applying pesticide from close range, easily lead to pesticide poisoning.	Applying pesticide from close range, easily lead to pesticide poisoning.



Question?



- *Easy Control
 Intelligent flight with autopilot
- *Adaptability
 mountain, hilly terrain adopt worldwide country
- *Foldable Foldable frame, easy to transport
- *Durability

 Mature flight controller for agricultural UAV
- *Maintenance Modularization design, easy disassembly
- *Warranty
 Complete warranty policy



Function of Drone Spraying System?

- Foldable frame, easy to transport
- Intelligent flight with autopilot
- Intelligent flight memory, record break-point
- Adjustable spray flow rate
- Adjustable altitude and fly speed
- Fail-safe, auto fly when out of control
- Low voltage warning and auto return to base
- Empty tank warning and auto return to base
- Terrain following with MMW radar
- Digital fence
- Software(ground station and manage platform)
- Add obstacles
- Multi-way charger

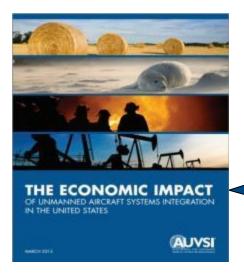


UAV and Precision Agriculture

Precision agriculture totals approximately 80% of the potential commercial market for UAV

UAV in agriculture has the potential to have an **\$11 billion** economic impact in the first three years following integration. Almost **\$66 billion** over 11 years.





"Precision application, a practice especially useful for crop farmers and horticulturists, utilizes effective and efficient spray techniques to more selectively cover plants and fields. This allows farmers to provide only the needed pesticide or nutrient to each plant, reducing the total amount sprayed, and thus saving money and reducing environmental impacts."



Future Potential

