



Spray UAV



Agricultural drones, also known as unmanned aerial vehicles (UAVs), are set to disrupt the agriculture industry owing to their immense potential to make agriculture more efficient, precise, and productive, driving the economic case for drone use.

With farmers grappling with mounting pressure to boost production while adapting to climate change and dealing with increasing costs of production and changing support frameworks, drones present a compelling solution to improve the efficiency of the entire farming enterprise.

Growers and their advisors can exploit the technology for data collection to identify stressed areas of crops, study and map farmland, and improve irrigation efficiency. In addition to spraying water, fertilisers or pesticides on crops, drones can be used for livestock monitoring and tracking animal population and health.

Precision farming is all about making the right decisions at the right times, in the right quantity and right locations, and that is where spray UAV's come into play.



UAV System (DJI AGRAS T10):

- > Automatically fly to a task route and avoid obstacles that have been marked in field planning
- > D-RTK can be used for centimeter-level positioning
- > Clear views of the front and rear of the aircraft thanks to the dual FPV cameras
- > UAV equipped with the Spherical Perception Radar System, providing functions such as terrain following, obstacle sensing, and obstacle circumventing.



Spraying System:

- > An 8L spray tank, four nozzles, and a 2-channel electromagnetic flow meter that provides even and accurate spraying for saving liquid and reducing operating costs
- > Variable rate fertilization by importing prescription maps to the remote controller and applying them to fields
- > Spray width of up to 5 meters allow the aircraft to cover up to 15 acres/hour

The application potential of this drone includes farmland fertilisation and infestation/disease control of crops. We offer this UAV as a service to help researchers in UAV spraying to explore how it integrates with current agricultural systems, especially in the context of UK legislation in the area.

For information on renting out our technical assets please contact team@agri-epicentre.com



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