

AGRICULTURE DRONES

55L WATER/80L FERTILIZER TANK AGRICULTURE SPRAYING DRONE FOR FERTILIZATION PESTICIDES SOWING



PRODUCT DETAILS

- Larger load capacity**
55L water tank/80L fertilizer tank
- V9 Flight Control System**
Superb computing power, stable and reliable
- RTK centimeter level positioning**
The maximum flow rate of the double impeller pump is 20L/minute
- High precision centrifugal nozzle**
Spray more evenly, lock valve, prevent dripping and leakage
- Modular design**
Ensure product consistency and stability, greatly reducing after-sales maintenance time
- Industrial grade protection**
IP67 protection, easy to work in harsh environments with high hardness
- 1080P FPV PTZ Camera**
Ultra wide angle FOV, industrial three proof
- Three directional radar**
Accurate and secure
- High brightness spotlight**
Improve night work safety



PRODUCT FEATURES

- New Truss Structure Design**
Truss style frame, foldable arm reduces transport volume. High strength aviation aluminum, with reinforced ribs embedded in the crossbeam, greatly reduces the damage caused by accidental aircraft explosions to the fuselage. Highly integrated spraying system, easy to switch between spraying and sowing.
- Truss Structure**
- Plug And Unplug The Pesticide Box**
- Folding Machine Arm**
- Broadcasting System**
The new version of the fertilizer spreader adopts an upper and lower segmented transmission shaft design, with external fixing screws that do not stick fertilizer. It is easy to disassemble and assemble, and the motor wiring is external to prevent fertilizer and liquid from entering the electric control compartment.
- New Generation Heavy - Duty Power System**
Fully introducing CAN communication, bringing a brand new data communication experience with digital throttle support and infinite precision control. All information can be obtained through a single 'line'. Linkage flight control, real-time feedback of working data of electric control motor, remote upgrade of electric control firmware.
- Heavy Duty Motor With High-strength Propeller Blades**
- V2 Intelligent Flight Control System**
The V2 system integrates high-precision inertial and satellite navigation sensors, and the sensor data is preprocessed, drift compensated, and fused across the entire temperature range to obtain real-time parameters such as flight attitude, position coordinates, and working status, in order to achieve high-precision attitude and route control of multi rotor unmanned aerial vehicle platforms.



- Route Planning**
The drone route planning is divided into three modes: land parcel mode, sweeping mode, and fruit tree mode.

The plot mode is a commonly used planning mode, which can add 128 waypoints. Freely set the altitude, speed, obstacle avoidance mode, and flight path for drone spraying operations. Automatically uploaded to the cloud for easy parameter tuning in the next assignment. Sweeping mode, the drone sprays the boundary of the planned area and can freely choose the number of rounds for sweeping flight operations. Fruit tree mode, a special operation mode developed for fruit tree spraying, can achieve hovering, spinning, and hovering of the drone at a certain point. Implement full or waypoint spraying based on waypoint selection. The drone height can be freely adjusted during fixed-point or slope operations to prevent accidents from occurring.
- Intelligent Charging**
Intelligent Lithium Battery uses high-energy cells and advanced power management system to provide long-lasting power for U series unmanned aerial vehicles. Optimized battery cell and heat dissipation design effectively controls battery temperature.

Intelligent Charger supports single-phase and three-phase AC power input. The three-phase AC input is in fast charging mode, and the corresponding battery can be fully charged in 10-15 minutes. In addition, the charger has overcurrent protection, overcharge protection, undervoltage protection, overheat protection, and status.
- Built In Cooling System, Running Time Greater Than 6 Hours, Charging Time Less Than 2 Hours**
Handheld ground stations support multilingual switching. It can perfectly display more than 10 languages including English, Spanish, Korean, Russian, etc. Supports multiple network connection methods such as WiFi and 4G. Dual antenna signal complementarity, ultra-high sensitivity. Greatly enhance the communication capability of weak signals.

PRODUCT PARAMETERS

Size	:	3060 × 3050 × 860 mm
Maximum effective takeoff weight	:	106 KG (within 1000 meters above sea level)
Battery capacity	:	14S 30000mAh*1
Flight speed	:	8m/s
Flight time	:	8min and 30s
Spraying tank	:	55L
Fertilizer tank	:	80L
Tank capacity	:	55KG
Spray efficiency	:	200-600 acres per hour
Spray width	:	6-10m (3.5m height)
Atomized particle diameter	:	50-500um
Fertilizer tank capacity	:	80L
Operating efficiency(ha/hr)	:	12
Spray amplitude	:	6-12m (3.5m height)
Waterproof	:	Ip67
Atomized particle diameter	:	0.5-10mm dry solid particles



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