60L SPRAYING DRONE

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SS-60 Flexi Spray Drone with 60L Payload for Agriculture Spraying

The SS-60 agriculture drone is specially designed for the most popular 60L capacity.

It adopts a quick-release water tank and battery, compact body, light in weight and convenient to fold.

Radar and FPV cameras are the first choice for entry-level plant protection drones, there reserved installation space for them on the SS60, series drones.

Function

1. Android ground station, easy to use / PC ground station, full voice broadcast
2. Router Setting support, Fully Auto Flight operation with A,B Point operation.
3. One Button take-off and landing, More safety and time saving.
4. Continue Spraying at Breakpoint, Auto Return when finish liquid and low Battery.
5. Liquid Detection, Break Point record setting.
6. Battery Detection, Low Battery return and Record point setting available.
7. Terrain following Radar, Stable Altitude setting
8. Vibration Protection, Lost Contact protective, Tank empty detect
9. Motor Sequence Detection and Direction detection Function.
10. Dual Pump Mode
11. The night vision function
12. Three anti - one lamp

DESCRIPTION

Wheelbase :2300MM
Unfolded size: 2300*2300*1350MM
Folded size: 1050*1080*1350MM
Tank capacity: 60L
Frame weight: 13KGS
Frame and spraying weight: 15KGS
Frame and motor sets & Hybrid generator weight :23.85KGS
No-load takeoff weight: 60KGS(including 14S 1*22000mAh battery 7KGS)
Full load Take-off weight: 120KGS
Nozzle: Ceramic sprinkler head (Germany origin)
Number os nozzles: 4pcs
Flight Speed: 3-8 Meter /Sec
Spray width: 3-6 Meter /Sec
Max spraying flow: 1.5-4 kg/min Max. 5kg/min.）
Spaying efficiency: 1.5-3 Acres/Min.
Water Pump Pressure: 0.8mPa
Delivery package size: Aluminum Box 1200*1200*1100mm 60kg
Transport volume weight: 316kg
The fuselage material: Carbon fiber composite
Max flight time (no load): 90min
Max flight time (full load): as the loading of fuel
Tank volume: 60L
Working temperature work: -15°C~45°C
Signal effective range: 3km
Flight Control systems :V7-AG
Dynamic System Hobby wing X9 MAX, tube: 45mm
Spraying System: High Pressure Spray
Battery: 24S 24000mah
Work power: 100V
Charging Time: 0.5-1hour
Recharge Cycles: 300-500 times
Daily efficiency(6hours): 300-500acres
Storage ambient temperature: For less than 3 months: – 20 ° C ~ 45 ° C
For more than 3 months: – 22 ° C ~ 28 ° C
Hover time: No-load flight Time: 90minutes (100V)
Standby time of remote control: 8hrs

Parameter of the Spraying System

Water Pump: 12S brushless water pump

Nozzle: Extension rod Y shape double 1.0 nozzle

Extension rod U shape double 1.0 nozzle

Note: The drone can work with two water pumps or 4 pumps, you can use them according to your requirements.

When the 2 water pump works, one water pump controls 4 nozzles, and when the four water pump works, one water pump controls 2 nozzles.

Four pumps can support independent spraying in front and back, and the atomization effect is better. Two pumps do not support independent spraying in front and back, which has better cost and other functions are consistent;

Main feature

1. Crossfolding Method ,The arms of the Q630L are folded in a staggered way, minimize the folding size, more convenient for transportation.

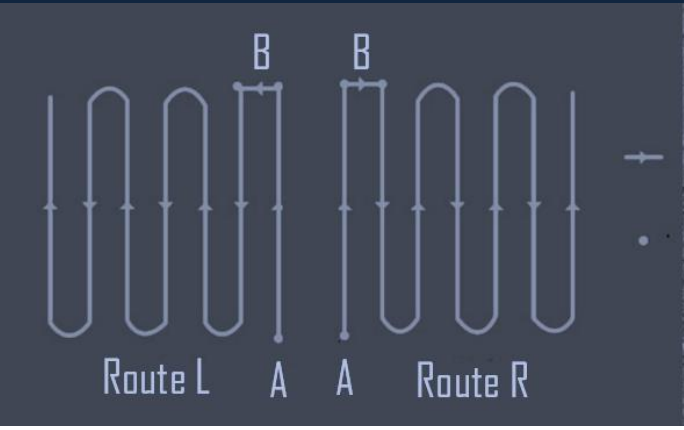
2. Integrated Fuselage Frame The fuselage frame of the Q630LAgriculture spraying drone is formed n one body, which simplify the structure and improve the strength of the frame. Therefore, the Q630L has good durability and reliability.

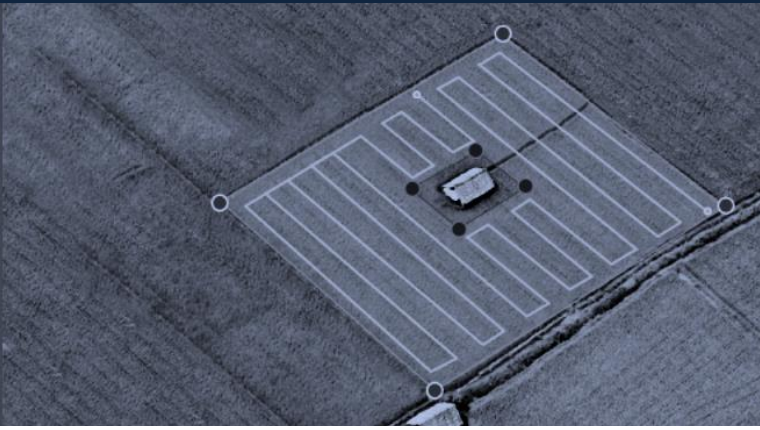
3. Quick Release Battery & Tank The water tank of the Q630L adopts plug-in design, and the battery can be placed vertically in the battery
compartment.

The size of the battery compartment is 168mm in length, 93mm in width and the height is not limited. Any 12S battery in this size can use on the SS30 drone. It is convenient to replace the tank and battery.

4. Dustproof and Waterproof The whole drone is dustproof and waterproof, and the waterproof grade reaches IP65. The frame can be washed directly with water.

5. Great Expandability The radar, fpv camera, pump and some other parts can install on the drone.





Using GROUND STATION, the user can select the operation area and set operation distance, flight speed, altitude, and other information.

The drone will automatically fly back and forth according to the specified distance and traverse the entire area to complete the work and the land operation is more convenient.

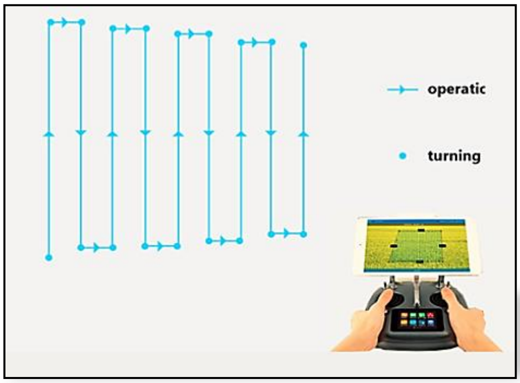
A/B Points automatically control

In the A / B point control, the drone can automatically spray pesticides in accordance with the established route, which is suitable for large regular areas.

Semi-automatic mode

In the semi-automatic operation mode, the user can control the uav flying in parallel, forward and backward.

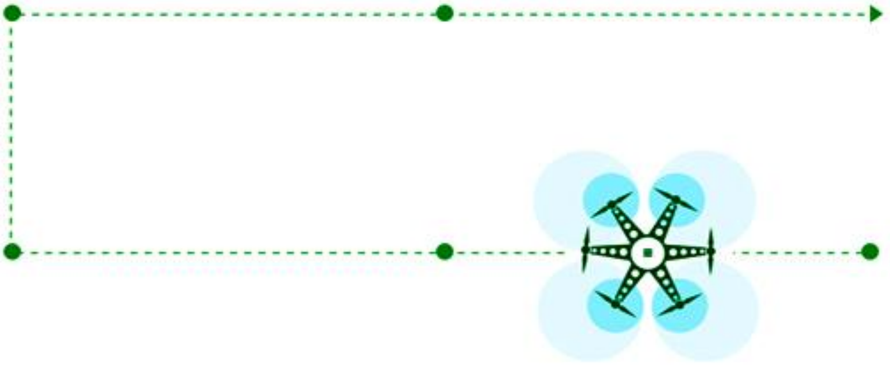
The aircraft automatically sprays pesticides, which is suitable for operation in the irregular areas.



Precise Spraying

You can set the spraying range, independent planning the path of changing working lines, also implements the constant situation of height, speed and flow spraying.

The function of intelligent spraying flow can be controlled which is associated with the flight speed: the faster the speed, the greater the flow; Speed is lower than 0.5 m/is, pump will shut off independently.
It not only ensure the uniformity of spray, but also save agrochemicals.



Ground Station / Portable

Ground Control Station is designed for controlling unmanned vehicles

Ground station is typically a software application, running on a ground-based computer, that communicates with your UAV via wireless telemetry.

It displays real-time data on the UAVs performance and position and can serve as a “virtual cockpit”, showing many of the same instruments that you would have if you were flying a real plane.

A GCS can also be used to control a UAV in flight, uploading new mission commands and setting parameters. It is often also used to monitor the live video streams from a UAV’s cameras. portable Ground Control Station (GCS) is a flexible and universal solution for controlling unmanned vehicles and payloads.

By using a unique, modular electronics compartment (MEC), application specific hardware can be quickly installed. This flexibility allows the GCS to be configured to control unmanned aircraft vehicles (UAV), ground robots, bomb disposal robots, remotely operated vehicles (ROV) and other robotic devices. The GCS can also be configured to control and monitor measurement and sensing equipment.

Specification:

Size: 462*256*70MM
CPU: Intel I7 7500U
Graphics card: Intel HD Graphics 620
Screen: Dual 13.3″ LED
Display resolution: 1920*1080
Touch screen: 10 points
Connector: 2*USB2.0/ 3*USB3.0/ 1*LAN/ 1*HDMI/ 1*MIC-OUT/ LINE-OUT/DC
Remote joystick： 2 Back to the Hall remote control lever
Gimbal Rocker: 2 Back to the Hall remote control lever
Channels: 14