XAG P120 Pro Agricultural Drone

Reliable, Economical, Multi-functional

The right balance of capability, efficiency and value. It handles spraying, spreading, and mapping with ease, delivering reliable all-round performance across varied terrains.



55 kg
Payload Capacity
Quick swap task modules for any operation

50 L
Smart Liquid Tank
42 L/min maximum flow rate
*Up to 52 L/min flow rate with four-nozzle upgrade kit

90 L
Granule Container
400 kg/min maximum spread rate

40 ha
Maximum mapping area per flight

18 m/s
All-scenario maximum flight speed[1]

Advanced Intelligence
2× computing power
4× perception performance[2]



Precision Spraying (with XAG RevoSpray 6)

Achieve full coverage across big fields and heavy orchard spraying.

50 L	**42 L/min**	**5-10 m**	**50-500 μm**
Max. tank capacity	Max. flow rate[3]	Effective spray width	Atomized droplet size



Even Spreading (with XAG RevoCast 6)

Handle fertilizing, direct seeding, aquaculture feeding, and powder spreading.

90 L	**400 kg/min**	**5-10 m**	**3 Sizes**
Granule container	Max. spread rate	Effective spread width	Screw feeders



Efficient Mapping(with onboard XAG RealTerra)

Take high-resolution images without any additional modules.

40 ha	**300 ha**	**4 times faster[4]**	**> 90 %**
Covered in single flight	Covered in single task	Map generation time	Power line detection rate

Next-generation Intelligent System

SuperX 5 Apex Intelligent Control System
2× computing power[5]

Ultra-Precision 4D Imaging Radar
4× perception performance[5]

Wide-Angle FPV View
Wider angle, clearer view

XLink Connectivity
HD real-time stable transmission



Advanced Mapping Efficiency

Real-time mapping can cover up to 300 hectares per task, generate HD maps onboard, and detect boundaries and obstacles to optimize routes.



Map-free 3D Navigation

Real-time mapping while flying at speed up to 18 m/s[6], enabling full-speed field and orchard operations without pre-mapping.



Full-speed Terrain-following

Keep the drone fly closely over rolling fields and sloped terrains, saving time and power for higher efficiency.



Smart Obstacle Avoidance

Detect, identify and avoid power poles, wires, pylons and central pivots from a distance, ensuring rapid response and safe flight in tough conditions.



Intelligent Control

XAG SRC 6 Smart Remote Controller integrates omnidirectional and directional antennas, high-brightness display and fast charging for extended endurance and improved handling.



Stable Connection

XAG XRTK 7 Mobile Station achieve centimeter-level positioning without internet access. Hassle-free setup, allowing precise and autonomous operations in diverse environments.



Fast Charging

Fully charge one battery in 7 minutes[7]. Paired with the XAG Battery Cooling Tower, batteries are ready to recharge on landing, with two-battery cycling for continuous operation.

Specifications

Flight Parameters

Maximum Flight Height
30 m

Hovering Precision (Good GNSS Signal)
RTK Enabled: ± 10 cm (Horizontal), ± 10 cm (Vertical)
RTK Disabled: ± 0.6 m (Horizontal), ± 0.3 m (Vertical)

Aerial Platform

Basic Parameters

Protection Rating
IPX6K

Max Takeoff Weight
105 kg

Aircraft Weight
43 kg (with XAG P120 Pro RevoSpray 6 and batteries)
49 kg (with XAG P120 Pro RevoCast 6 and batteries)

Sensing & Avoidance System

4D Imaging Radar

Sensing Range
1 ~ 100 m

Relative Height of Obstacle Avoidance
⩾1.5 m

Field of View (FOV)
Horizontal: 102°;
Vertical: 150°

Obstacle Avoidance Distance
2.5 m (distance between propeller tip and obstacle after the drone brakes and hovers stably)

Propulsion System

Motor

Maximum Tension (Single Motor)
42 kg

Rated Power (Single Motor)
2500 W

Foldable Propeller

Diameter x Pitch
1600 mm (≈ 63 in)

1.6. Obstacle detection range and avoidance performance may be affected by environmental factors such as lighting, weather conditions (e.g., rain or fog), as well as the material, shape, and position of objects. 2.5. Compared with the XAG SuperX 5 Ultra Intelligent Control System. 3. Flow rate up to 52 L/min when upgraded to the four-nozzle kit. 4. Compared with the map generation time of XAG P150 Max Agricultural Drone. 7. Under standard laboratory conditions, using a parallel charging cable with the CM13600S Charger or using the CM16400 Charger can charge a B141050S Smart SuperCharge Battery from 30% to 95% in approximately 7 minutes. Actual performance may vary depending on operating conditions, usage, and maintenance.