

Orchard Autonomous Sprayer

S1000



**Integrated
Navigation**



**Ultra-Long
Endurance**



**Precision
Spraying**



**Visual
Management**

COMPANY PROFILE

Jiangsu Lanjiang Intelligent Technology (LJ Tech) is a national high-tech enterprise focused on R&D and production of smart agricultural robots. Our three core products: Orchard Robotics, Field Patrol Robots, and SAAS Digital Farming Platform, integrate embedded hardware, AI, and cloud systems to optimize farm operations through seamless machine-data coordination.

LJ Tech has taken a significant step in exporting agricultural robots to a dozen countries. We contribute to the global shift towards a green, unmanned, and intelligent future in agriculture.



APPLICATION SCENARIO



PRODUCT ADVANTAGES

The LJ Tech S1000 autonomous sprayer delivers the same intelligent functionality and precision spraying as the S500 Pro. Notably, the S1000 can carry twice as much liquid and spray farther and higher. The S1000 is ideal for large orchards with wider rows, taller trees, and denser foliage.

World's Only Integrated Navigation System for Orchards

- ▶ Fuses RTK, vision, LiDAR, and IMU with advanced algorithms for seamless operation in signal-blocked areas

All-Electric Control System Efficient & Stable

Powered by China's robust EV supply chain, using globally leading, cost-effective solutions.

Energy Conversion Efficiency Comparison:

- ▶ Traditional hydraulics: 60%
- ▶ Modern electric control: **80%!**



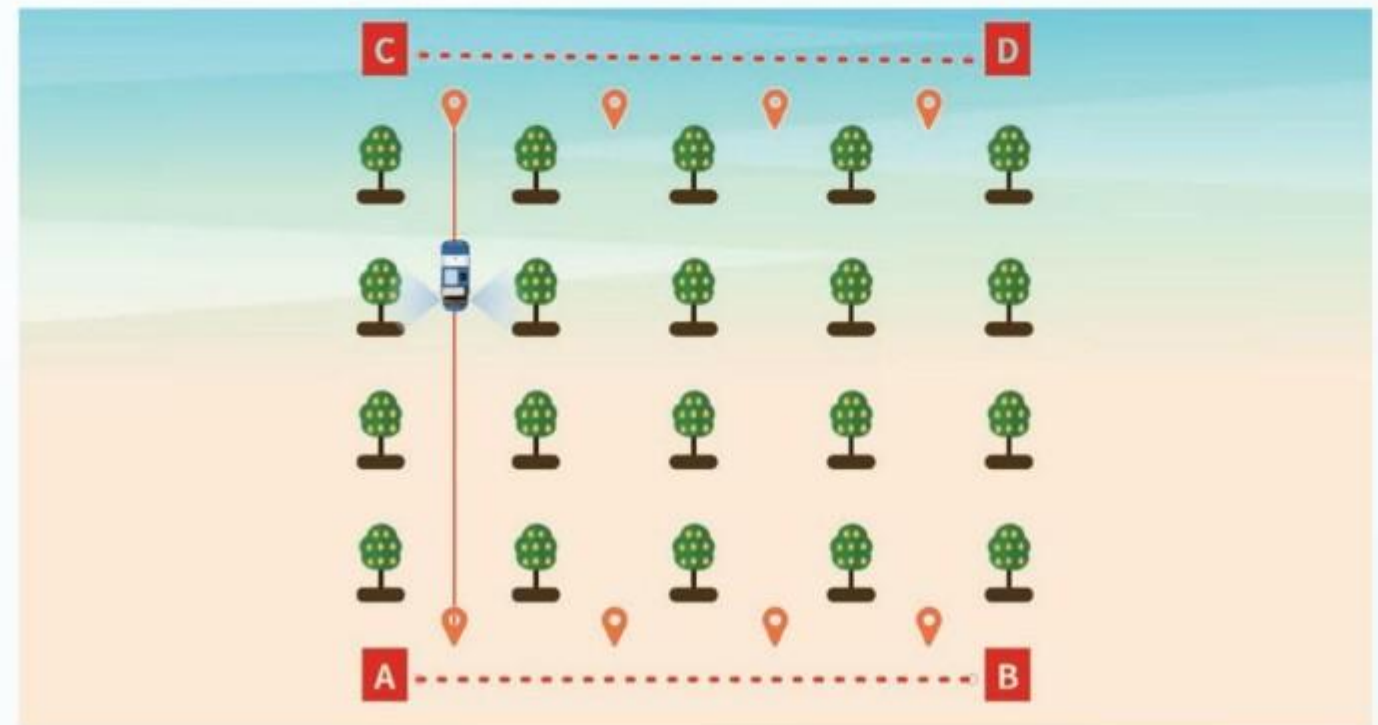


Precision Spraying Green Revolution

- ▶ **Precision Dosage**
Programmable stepless fan RPM control;
Dynamic flow control based on real-time velocity
- ▶ Smart start-stop & unilateral control slashes chemical use & environmental impact

Effortless Deployment Seamless & Scalable

- ▶ Discrete point planning for all terrains (shade, tall trees, greenhouses)
- ▶ 5+ device fleet operation, Single-user control for large orchards

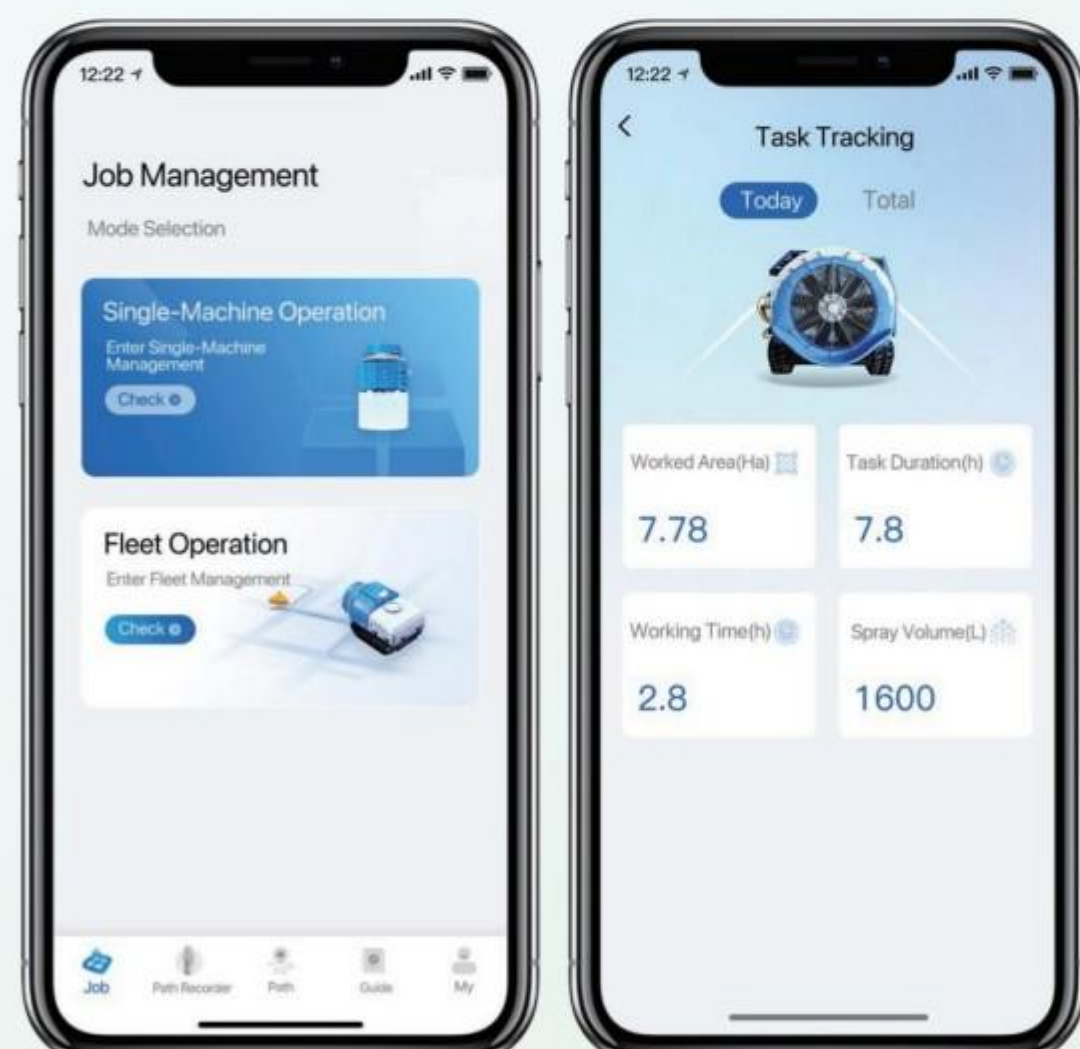


Smart Visibility One-Tap Control.

- ▶ "Orchard Mate" APP:
Real-time path/status monitoring. Auto-generates daily reports for digital orchard management
- ▶ Large-screen Remote Control:
Live view + instant path tracking
+ real-time diagnostics + self-diagnosis alerts

AI-driven Operation – High ROI

- ▶ **40% higher efficiency**
LJ Tech enables single-user control of multiple machines
- ▶ **5% increased yield**
Clear operation paths and data enhance spray consistency and management
- ▶ **10% less pesticide use**
Precision spraying and navigation systems eliminate overlap and waste
(Data based on real results from a 2,000-acre orchard)



DATA PARAMETERS

Basic Configuration	
Overall dimensions	4490mm(L)*1720mm(W)*1920mm(H)
Unloaded weight	2970kg
Power type	Range-extended Electric Powertrain
Endurance time	≥8h
Power System	36kW / 48Hp diesel engine, 96V Super Capacitor
Generator power	30kW
Chassis type	Track chassis
Ground clearance	20cm
Travel speed	0-4.5km/h
Climbing angle	≤5° for constant slope
IP Rating	IP55
Spray System	
Water tank capacity	1000L main tank with agitator + 100L cleaning tank(auto clean) + 15L hand rinse tank
Rated pressure	0-1.3MPa
Flow range	0-100 L/min
Number of Nozzles	26
Spray radius	20-35m wide, 6-12m high
Atomization effect	80-200 μm
Autopilot System	
Fusion navigation	GNSS + RTK (Base Station/ CORS Net) + LiDAR + IMU + Visual Recognition(Pending)
Positioning accuracy	± 5 cm
Safty	Milimeter Wave Radar/ Low-liquid-level Stop/ Lateral-offset Stop
Intelligence	Path Sharing/Stop spraying during turning/ Single-sided Spray/ Precise Dosing Control / Smart Refilling Alert/ Fleet Management
Smart Remote	Path Tracking; Real-time Data Monitoring ; Video-transmission Display
Interactive System	PC, Big data management platform, APP of Smart phone



WhatsApp



Youtube



Instagram

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