佐翼科技
DROXO®

Excellent R&D capability
Rich cooperation experience

Origins from NCKU Graduate School of Aeronautics and Astronautics and has rich experience in R&D and cooperation projects with MOST, STSP, etc., bringing new perspectives and diverse development of agriculture, inspection, drone light show, etc.

Droxo is the direct agent of foreign drone company and also provides self-made UAVs, unlike the common agricultural drone retailers on the market which import drones from other countries; thus, the patented technology is not monopolized by upstream manufacturers.

"Most domestic manufacturers focus on agriculture and topographic mapping which is relatively monotonic. In contrast, UAS of Droxo has a wide range of applications and intriguingly diversified development."

無人機 Agricultural Drones
智慧農業

Agricultural Dilemma in Taiwan

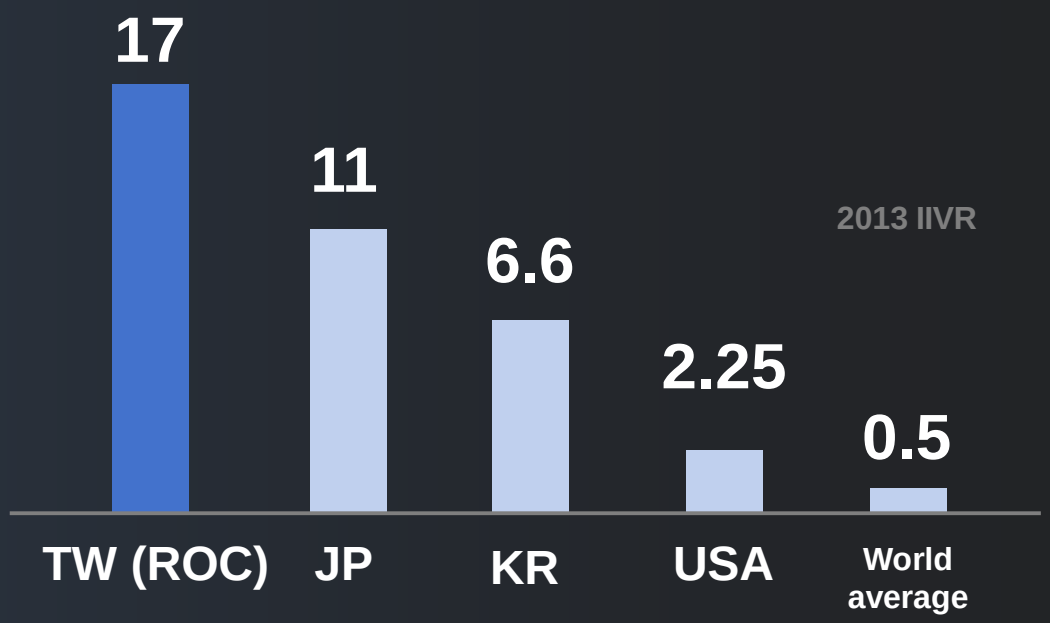
Manpower Shortage

Annual manpower shortage of 6,000 people in Yunlin county 2018 UDN

Physical Harm

- Non-deliberate pesticide poisoning in 2015: 392 cases
- Prolonged exposure to low doses of pesticides can also cause Chronic Poisoning

Pesticide Overuse



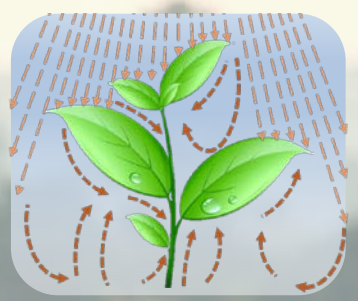
An average of 4kg of pesticide use per person

Traditional

60 min / 0.1 ha

1 L (pesticide) / 200 L (water)

UAV



2 min / 0.1 ha

0.6 L (pesticide) / 1 L (water)

DROXO TECH
佐翼科技有限公司

DX-5 | DX-5 +

Comprehensive & Cost-effective

Equipped with 5L liquid tank, DX5 series optimum smart agridrones, which best meet the needs of Taiwan's small farms are easy to operate and maintain.

AB Mode	RTL Mode	Total cost -25%
Smart Memory	Mobile APP	Speed up 30x

DROXO TECH
佐翼科技有限公司

DX-10

Easy & Efficient Farming

The 10L medium-sized smart drone can operate automatically along terrains with real-time scanning and improved navigation through complex environments of larger farmlands.

mmWave Radar	RTL Mode	AB Mode
Smart Memory	Mobile APP	Per Task 0.8ha

Lightweight
Smart Agricultural Drone

Tank Volume
5 L

High-stability, light and efficient !
Cost-effective smart agricultural drone that best meets the needs of agriculture and makes farming super easy.

Smart Memory · Route Planning · Altitude Mode · AB Mode · RTL Mode

DROXO Technology Co.,Ltd

Smart
Agricultural Drone

DX5

Professional
Agricultural
Drone

As a high-performance agricultural drone developed for farmers engaged in long-term farming, DX5 is easy to be carried around and operate. It is also IP65 waterproof, high-strength, lightweight and easy to maintain. In addition, the power system is developed by our professional R&D team after a large number of field spray tests, high altitude drop tests (HADT) and destructive tests, referring to the advantages and disadvantages of many agricultural drones on the market. Thus, its performance is optimized to meet the actual farming needs and precise pesticide application.

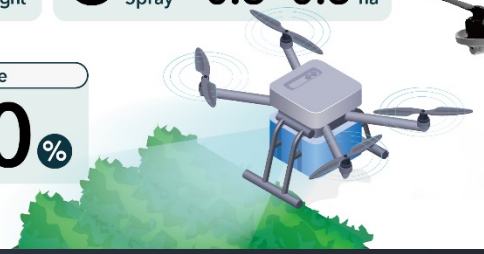
Tank volume
5 L

Cruise duration
15 Minutes
16000mAh battery
No-load flight

Spraying efficiency
6 Minutes Spray
0.3~0.5 ha

Operating speed
Increases 30 X

Pesticide use
Reduces 50 %



Is agridrone effective?

The principle of drone spraying is atomizing pesticides to ensure long lasting effect and its even coverage on plants.

Special spray nozzles can atomize pesticides

Can dorsal sides of leaves be covered?

During the flight, DX5 creates a powerful downward airflow while simultaneously rolling up pesticides and depositing them behind the fluttered leaves.

Are most pesticide applicable?

As long as the pesticide is uniformly soluble in water

Route Planning
Directly delimit field areas and autogenerate spray routes via our mobile app. Obstacles can be marked beforehand and be auto-bypassed during flight.

Altitude Mode
The flight will be at a fixed stable height regardless of terrains or external forces according to the altitude of takeoff point

AB Mode
After setting the starting and end points, DX5 will automatically spray according to the straight line between the two.

Smart Memory
Return to the memorized coordinate of the last task with only one click to continue, avoiding repeated spraying.

RTL Mode
Press Home button directly and DX5 will return to the launch position, protecting your crops and itself.

DX5 Agricultural drone specifications

Unfolded size: 1090ⓡ x 485ⓗ mm	
Folded size: 577ⓡ x 485ⓗ mm	
Weight: 7 KG	Windproof: 6 Maximum Beaufort scale
Tank volume: 5 L	Endurance: 15 min
Sprayed area: 0.4 ha/task	Operating time: 6 min
Symmetrical wheelbase: 1.09 m	Flight speed: 2~8 m/s
Spray width: 2~3 m	Waterproof: IP65

DX10

10 out of 10

Easy and efficient farming

Head Lights · Live Video · Smart Memory · Route Planning · Altitude Mode · AB Mode · RTL Mode

DROXO Technology Co.,Ltd

DX10

Professional Agricultural Drone

As a high-performance agricultural drone developed for farmers engaged in long-term farming, DX10 is easy to be carried around and operate. It is also IP65 waterproof, high-strength, lightweight and easy to maintain. In addition, the power system is developed by our professional R&D team after a large number of field spray tests, high altitude drop tests (HADT) and destructive tests, referring to the advantages and disadvantages of many agricultural drones on the market. Thus, its performance is optimized to meet the actual farming needs and precise pesticide application.

- **Liquid Tank**: 10 L
- **Cruise duration**: 20 Minutes (16000mAh battery) No-load flight
- **Spraying efficiency**: 6 Minutes Spray 0.6~1 ha
- **Operating speed**: Increases 30 X
- **Pesticide use**: Reduces 50 %

Upgraded

Head Lights · **Live Video**

Route Planning
Directly delimit field areas and autogenerate spray routes via our mobile app. Obstacles can be marked beforehand and be auto-bypassed during flight.

Altitude Mode
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AB Mode
After setting the starting and end points, DX10 will automatically spray according to the straight line between the two.

Smart Memory
Return to the memorized coordinate of the last task with only one click to continue, avoiding repeated spraying.

RTL Mode
Press Home button directly and DX10 will return to the launch position, protecting your crops and itself.

DX10 Agricultural drone specifications

Unfolded size: 1300ⓡ x 515ⓗ mm	
Folded size: 640ⓡ x 515ⓗ mm	
Weight: 11 L	Windproof: 6 Maximum Beaufort scale
Tank volume: 10 L	Endurance: 20 min
Sprayed area: 0.6 ha/task	Operating time: 7 min
Symmetrical wheelbase: 1.3 m	Flight speed: 2~10 m/s
Spray width: 2~3 m	Waterproof: IP55

Education and Training

A Operation Tutorial

Free tutorial for customers and agents of operation, APP and emergency responses.

Difficulty : ★★☆☆☆

B Pilot License Course

Corresponding license courses for spraying agents and customers in response to the government's latest drone regulations

Difficulty : ★★★★☆

C Agridrone Course

Training for agricultural spraying includes both drone knowledge and practical info about crops and pesticide use

Difficulty : ★★★☆☆

D Special Demands

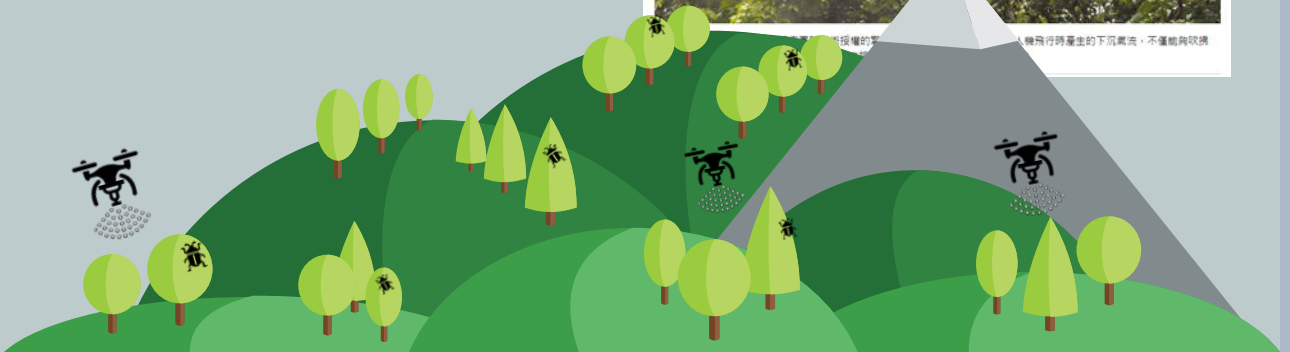
Courses of special flying skills in response to specific demands from customers

Difficulty : ★★★★★

Cooperation with TNDAIS

Slope Farming and Pest Control of Fruit Plants

Powerful downward airflows rolls up pesticides and depositing them behind the fluttered leaves, directly annihilating the larvae and adults of litchi stink bugs.



Face-to-face

Collaboration with Farmers' Association for Field Observation

Through face-to-face idea exchanges, we are able to optimize our drones and promotion strategies.