

“ALPAS II (Shennong)”, a helicopter built on GEOSAT years of experiences and integrated into a lightweight and high-performance UAV specifically for smart agriculture. Equipped with central tank and electric pump allowing ALPAS II produces excellent atomization effect through four nozzles. The pesticide and liquid fertilizers can be stably loaded and evenly distributed, and the spray effect can be effectively enhanced while reducing the usage of chemicals.



# GEOSAT

## (ALPAS II)

“ALPAS II” UAV is equipped with state-of-the-art flight control computer and dual “laser/mmW radar” sensors, allowing precise spraying automatically. The helicopter can operate 15 minutes while taking off at 24 kg, covering 2.3 acre/hour with its 4 meter spraying span. The labor costs can be greatly reduced as a new generation UAV for precision agriculture.

### Basic Specifications

Dimensions	L1710 x W560 x H645mm
Main Rotor Diameter	L900 x W80mm
Payload	Tank \ Sprayer
Power system	300KV brushless motor
Auto Height-holding System	Under 10m by mmW radar Over 10m by barometer

### Flight Performance

Maximum Takeoff Weight (MTOW)	24.15kg
Empty Weight (w/o payload)	14.15kg (Payload over 10 kg is prohibited)
Operating Temperature	-20°C ~ +60°C
Maximum Wind Resistance	10m/s (Beaufort 5)
Motor Input Voltage	45V~52V (12S Li-Po)
Avionics Voltage	8V-12V

### Sprayer System

Volume	16L (Do not exceed the 10L limit line)
Water Pump Power	45 W
Voltage	12 V
Boom	2 Rods
Nozzle	4 nozzles



- ✓ **Low pollution**
- ✓ **Manpower saving**
- ✓ **Fully automatic**
- ✓ **Wide spraying area**
- ✓ **Precision height control**
- ✓ **Good performance**

Official Website



GEOSAT FB



<https://www.geosat.com.tw>

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Tainan Headquarter  
12F, No.253, Sec.3, Dongmen Rd.,  
East Dist., Tainan City 70172, Taiwan  
TEL : 886-6-335-1068

Taichung Branch  
3F, No.43, Keya Rd.,  
Daya Dist., Taichung City 42881, Taiwan  
TEL : 886-4-3609-5588

Taipei Branch  
10F, No.306, Sec.4, Xinyi Rd.,  
Da'an Dist., Taipei City 10679, Taiwan  
TEL : 886-2-2708-4438