



RPAS  
Pelicano

# SkyDrones

Since 2008, SkyDrones develops and manufactures, using state of the art technologies, fixed and rotary wing remotely piloted platforms.

Besides the aircraft, we also offer a wide range of services and solutions focused in meeting specific sectors and client requirements.



**Pelicano** is an aerial platform carrying sophisticated electronics, that allows it to automatically and precisely spray at specific spots - saving chemical products and respecting the environment.

**Pelicano** RPAS (Remotely Piloted Aerial System) octocopter, is equipped with electronic instrumentation and control systems allowing safe and highly stabilized flights, even for operators with minimum training.

**Pelicano** offers high payload and great reliability, spraying pre-set areas with no need of human intervention.

**Pelicano** can carry a wide range of liquid chemical products, such as agricultural defensives or larvicides, covering hard-to-reach areas usually serviced by manned agriculture aviation or ground mechanized applications.

## PELICANO HIGHLIGHTS

- 1 Totally automated flight, vertical takeoff and landing
- 2 Ready to fly in less than 15 minutes
- 3 100% electric
- 4 Cruising speed up to 10 m/s, resisting winds up to 7 m/s
- 5 Part of the Crop Solution system

## FEATURES

- 8 electrical motors
- Altitude sensor
- MEMS Gyroscope (3 axis)
- Accelerometer (3 axis)
- Magnetic sensor (3 axis)
- GPS or optional RTK
- Diameter: 1360 mm
- Dispersion width: 4 to 5 m
- Payload: 10 kg
- Weight: 7 kg (no batteries)
- Maximum takeoff weight: 24.5 kg
- Flight time: 10 to 15 minutes\*
- Cruising speed: 5 to 10 m/s
- Altitude: up to 5000 m (16,404 ft) above sea level (ASL)
- Height above crops: starting at 1.5 m
- Radio link range (line of sight): 5 km

## APPLICATIONS

- High precision agricultural crop spraying
- Crop spraying small or irregular terrain areas (such as vineyards, flowers, experimental areas)
- Larvicide spraying for plague control

## OPERATION

- Coverage in a single flight: up to 1 ha
- 6 spray nozzles with droplet sizes from 60 to 180  $\mu$ m
- Adjustable spray pump
- Automatic or assisted operation using computer and camera (optional)
- Carries 10 kg or 8 liters of liquid chemical product
- Can change the spray nozzles

\*May vary on payload, battery size and atmospheric conditions



Simply the best cost benefit in  
remotely piloted crop spraying systems.

### PARTNERS

**MicaSense**

Multispectral cameras  
Parrot Sequoia and RedEdge

**PIX4D**

Mapping Software

**dji**

**FLIR**

 **CropSolution**  
From Diagnosis to Solution

 **SkyDrones**

+55 (51) 3328 6091  
contact@skydrones.com.br

[www.skydrones.com.br](http://www.skydrones.com.br)