

P310 UAV



KEY FEATURES

- *Simple construction design, easy to assemble in short time*
- *Full automatic operation, controlled by GCS*
- *VTOL, no requirement for runway and airspace, high efficiency*
- *Aircraft-grade reliability, perfect system surveillance warning and emergency processing logic*

P310 adopts hybrid configuration design of fixed wing and quadrotor, solving the difficulty of VTOL by this simple and reliable way. P310 has many characteristics, like long endurance, high speed, long flight range and large payload.

VTOL

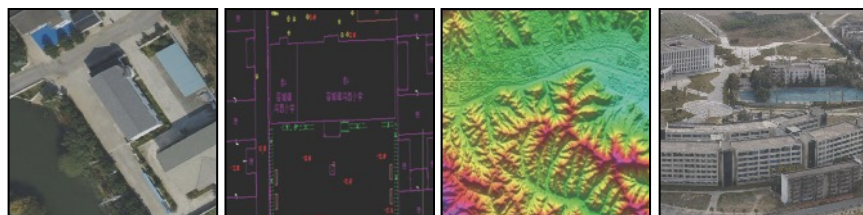
P310 is VTOL fixed wing UAV, using fixed wing with four rotors of composite wing layout form, in a simple and reliable way to solve the problem of the fixed wing VTOL. P310 owns both long fixed-wing UAV navigation time, high speed and far distance features and the function of the rotorcraft UAV VTOL.

Easy to Operate

P310 electric UAV can fully automatic & vertical take off and landing, it is easy to assemble without tools and easy to transport, which is an ideal choice for separate operation. Autonomous flight all the way, without operator intervention to complete cruise, flight state transitions, such as VTOL.

Application

For Aerial Photography Powerline/Pipeline Inspection, Disaster Prevention, Geological Survey, Emergency Response, etc.



Technical Specifications

Physical

- Wingspan: 2.4 m
- Fuselage: 1.5 m
- MTOW: 10 kg
- Payload: 2 kg
- Material: Fiberglass
- Suitcase Size: 1.5 x 0.5 x 0.5 m

Takeoff & Landing

- Takeoff & Landing Method: VTOL
- Landing Accuracy: 5 cm

Performance Specifications⁽¹⁾

- PPK:
 - Horizontal: 10 mm + 1 ppm RMS
 - Vertical: 20 mm + 1 ppm RMS

Flight Specification

- Wind Resistance: 10.7 m/s
- Operating Temperature: -20 °C to + 50 °C (-4 °F to 122 °F)
- Flight Endurance: 100 min
- Battery: 25.2 V, 1 W mAh for rotor wings; 25.2 V, 3 W mAh for fixed wings
- Max. Speed: 108 km/h
- Cruise Speed: 75 km/h
- Ceiling Altitude: 4 km

Camera

- Sony A7R (Standard): 36 mega pixel
- Sony A7RII (Optional): 42 mega pixel

Autopilot System

- GPS Module
 - Data Update Frequency: 10Hz
 - Positioning Accuracy: 2.5M
- Tri-Axis Gyroscope
 - Range: ± 300 deg/s
 - Rate Noise Density: 0.02 deg/s/sqrt(Hz) RMS
- Tri-Axis Accelerometer
 - Range: ± 18 G
 - Noise Density: 0.06 mg/sqrt(Hz) RMS
- Tri-Axis Magnetic Sensor
 - Range: ± 8 G
- Air Pressure Sensor
 - Height Resolution: 0.1 m
 - Dynamic Pressure Range: 13.78 Kpa
 - Maximum Airspeed: 150 m/s (540 km/h)
- Waypoints: 1000+
- Internal Data Logger: 32 MB
- Aerial POS Quantity: 8000+
- Integrated Data Link: 902 928 MHz 1 W > 30 K

Software (optional)

- Pix4D Aerial Mapping Data Processing System (Point Cloud processing, DOM, DSM, DEM, aerial triangulation)
- Context Capture Aerial Tilt photography System (Tilt photography data processing, 3D Modeling)

(1) Accuracy and reliability specifications may be affected by multipath, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.

Specifications are subject to change without notice.

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