

UAV P700



KEY FEATURES

- **90-100 min endurance**
- **Safe and powerful Dual Electric motor**
- **Auto Pilot**
- **4.5 kg weight allows more stable flight while sustaining turbulent weather condition to improve the quality of aerial photographs**
- **24.7 mega pixel camera enables high quality data**
- **Convenient Launch and safe parachute landing**
- **Multi-application capable of aerial photographing and real time video transmission**
- **Adopting patented Carbon fiber honeycomb structure enables P700 to land on hard surface, decreasing the limitation for searching the launch and recovery site.**

UAV P700

Massive tests and applications of CHC P700 UAV have proved that the product can complete flight mission and get high quality data under harsh environment and its reliability and stability makes the product enjoy a good reputation among the users.

Featured by long endurance and high stability, CHC P700 UAV can acquire high resolution aerial image and real time video transmission for surveillance and coordination.

Flight Performance

The aircraft configuration of Avian UAV allows a more stable a quality flight throughout the mission, resisting a more turbulent working environment. The low cruising speed of Avian contributing to the better aerial photographs.

Reliable Platform

Avian UAV has been operated since 2008, with more than 1200 flight hours. It is proven in rough terrain and tough environment.

High Durability

High strength carbon composite airframe and parachute system allows Avian UAV to land on hard surface, decreasing the limitation for searching the launch and recovery site.

Advanced Payload

Avian UAV is capable to carry the DSLR-like digital camera. High resolution of the aerial photograph can have the GSD up to 5cm, while flying at a higher altitude. Moreover, payload of the Avian UAV is customizable.

Technical Specifications

Physical

- Size: 160*103*35 cm
- Weight: 4.5 kg
- Wing Span: 1.6 m
- Wing Area: 48 dm²
- Material: Carbon Fiber Honeycomb Sandwich Structure, VARTM Process
- Battery: Lithium-Polymer 11.1V, 20 000 mAh
- Propulsion: Electric Brushless 350W, Dual Prop

Camera

- Model: SONY RX-1 Digital Camera
- Pixel: 24.7MP
- Aperture: F20
- Sensor: 35 mm Optical

Flight

- Speed: Cruise Speed: 64 km/hr, Max. Speed: 81 km/hr
- Altitude: 100 ~ 4500 m
- Endurance: 90 ~ 100 min

UAV Types

- Aerial Photography: SONY RX-1
- Aerial Photography + HD Image: SONY RX-1 + GoPro Hero III
- Agriculture Investigation: SONY NEX-7 RGB + SONY NEX-7 NIR

Launch/Landing

- Launch: Bungee Cord or Launch Rack(Optional)
- Landing: Parachute

Weather Condition

- Wind: Max. Beaufort scale 6 (39 - 49 km/h)
- Rain: Beaufort rain force 4
- Temperature: -20°C ~ 60°C

Data Collection and Control

- Communication Frequency: 434/868/912Mhz(Customizable); 19 200 bps, half-duplex, 8 channels
- Communication Range: Up to 5 km (Omni), 10 km (Directional)
- Aerial Photography Area: 6 km² (GSD 5cm), 9 km² (GSD 10cm)
- Ground Equipment: Data Control Box (Omni/Directional Antenna); Backup Battery (Optional); Laptop (Optional), compatible with current mainstream aerial survey software.
- Control Software: Ground Control Station Software
- Post-processing Software: Flight Matrix/Agisoft/Pix4UAV (Optional)
- Camera Calibration Software: Easy Calibrate (Optional)

Application

- Land Planning
- Railway and motorway surveying
- Hydro resource and utility surveillance
- Geographic Survey
- Pipeline Planning
- Open Mine surveying
- City 3D modeling
- Geological and flood disaster emergency
- Agricultural and forestry planning

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