

P560 UAV



KEY FEATURES

- *Small size, large payload*
- *Long duration of flight*
- *Low flight noise*
- *Multifunctional flight carrying platform can carry airborne Lidar and five-angle oblique aerial camera*
- *Tri-proof Ground Control Station can achieve avoid the same frequency interference.*
- *High flight stability can anti-seven wind*
- *Intelligent flight mode (simplify the difficulty for operating UAV and airline planing)*

P560 adopts high-strength carbon fiber material. Novel body design, small size, light weight, smooth flight, flexible mobility, low air resistance and flight noise is the main characteristics. Meanwhile, P560 is more suitable for work on nighttime, harsh and personnel-intensive environment.

Innovative Body Design

One-piece body, customized design of battery compartment, quick detachable arm, only need 8 minutes to complete the whole UAV assembly. Meanwhile, Symmetrical motor wheelbase is only 1550mm but the maximum weight of taking of can up to 20kg. The flight time is up to 40 minutes even carry 2.6kg five lens PTZ (Pan/Tilt/Zoom) photography platform.

Tri-proof Ground Control Station

Dust-proof, Water-proof and Shake-proof. Data transmission module has frequency hopping technology which can avoid the same frequency interference. Meanwhile, The effective transmission distance is 10km for urban district, 20km for suburban district.

Intelligent Flight Mode

(1) GPS positioning function can simplify the difficulty for operating UAV, also ensuring the flying performance of the UAV under the harsh environment; (2) Ground control station has navigate function which can set flight track, take off point landing point, UAV speed and height easily. Meanwhile, P560 can autonomous fly based on lane setting and land in the setting points accurately.

Diversifying equipment selection

P560 can carry sensor systems such as HD color camera (SLR camera), Airborne Lidar (AS100), Five Tilt Photography System (AP5600), Multi-spectral, hyperspectral, near-far infrared equipment, etc. And CHC has two reliable solutions which are AS-100 (real-time, obtain three-dimensional spatial information and images of terrain surface) and AP5600 (obtain tilt and ortho photos for building 3D model).

Technical Specifications

Physical

- Single Rotor Wingspan: 820 mm
- Symmetric Motor Wheelbase: 1550 mm
- Fuselage Diameter: 550 mm
- Undercarriage Size:
 - Span: 630 mm
 - Height: 400 mm
- MTOW: 10 kg
- Material: Fiberglass

Electrical

- Stator Size: 81 mm
- KV Value: KV170
- Max. Power: 1800 W/R
- Operating Current: 80 A
- Operating Voltage: 25 V
- PWM Driver Frequency: 600 Hz

Flight Specifications

- Payload: 10 kg
- Image Transmission Module: SD-SDI (Optional HD-SDI)
- Flight Endurance: 70 min with no-load, 50 min with standard load
- Control Distance: 3 to 5 km
- Flight Altitude: 5 km
- Wind Resistance: 13.8 m/s
- Battery: 22.2 V, 22000 mAh
- Operating Temperature: -20 °C to + 40 °C (-4 °F to 104 °F)

Ground Station

- Size: 520 x 440 x 200 mm
- Internal Battery: 3S1P 10000 mAh
- Operate Endurance: > 8 h

AS100 Airborne Lidar System (optional)

- GNSS Performance:
 - GPS: L1, L2
 - GLONASS: L1, L2
 - BDS: B1, B2
- Laser Grade: 1 grade
- Range: 100 m
- Accuracy: 3 cm
- Field of View: horizontal 360°, vertical 30° (+15° to 15°)
- Scan Frequency: 5 to 20 Hz
- Point Cloud Density: 300000 pt/s
- Effective Pixels: 424 hundred thousand
- Resolution: 7952 x 5304
- Continuous Shooting: 5 shoot/s

AP5600 Micro Tilt Camera (optional)

- Size: 230 x 260 x 260 mm
- Weight: 2.5 kg
- CCD Quantity: 5
- CCD Size: 23.2 x 15.4 mm
- Pixel Size: 4.25 um
- Min. Exposure Interval: 2 s
- Focal Length: 20 mm
- Total Pixels: > 100 million
- Side-looking Camera Inclination Angle: 45°

Software (optional)

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

Specifications are subject to change without notice.

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