

# P560

## Unmanned Aircraft Systems

- Large payload up to 10 kg
- Long duration of flight up to 50 min
- Multifunctional flight carrying platform
- FAD-W ground control station with hopping frequency technology
- High stability of flights, even in Level 7 wind
- Intelligent flight mode
- Dual-differential RTK/PPK GNSS module
- Multi-functional Ground Control Software



P560 is a high-end, multirotor UAV made from high-strength carbon fiber material. Features are novel body design, smooth flight, flexible mobility, low air resistance and flight noise. One-piece body, only need 8 min to complete the whole UAV assembly.

The maximum takeoff weight (MTOW) could be 20 kg and the maximum flight (endurance) time could up to 50 min. Embedded frequency hopping technology gives the communication line high immunity against interference and jamming.

Additionally, GPS positioning can simplify the UAV operation and ensure the excellent flying performance even in harsh environment.

P560 can carry sensor systems such as HD color camera (SLR camera), airborne lidar (CHC AS100), oblique photography system (CHC AP5600), multiple and hyper-spectral systems to give diverse equipment selection to user.



# ■ 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: 20 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 km to 5 km
- Flight Altitude: 5 km
- Wind Resistance: 13.8 m/s
- Battery Capacity: 22000 mAh, 22.2 V
- Operating Temperature: -20°C to + 40°C (-4°F to +104°F)

## Ground Station

- Size (L x W x H): 520 mm x 440 mm x 200 mm  
(20.5 in x 17.3 in x 7.9 in)
- Internal Battery: 3S1P 10000 mAh
- Operating Time<sup>(1)</sup>: > 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 Hz to 20 Hz
- Point Cloud Density: 300000 pt/s
- Effective Pixels: 42.4 mega
- Resolution: 7952 x 5304
- Continuous Shooting: 5 shoot/s

## AP5600 Micro Tilt Camera (optional)

- Size (L x W x H): 230 mm x 260 mm x 260 mm  
(9.1 in x 10.2 in x 10.2 in)
- Weight: 2.5 kg (5.5 lb)
- CCD Quantity: 5
- CCD Size: 23.2 mm 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 photo-graphy data processing, 3D Modeling)
- Pix4D Aerial Mapping Data Processing System (Point Cloud processing, DOM, DSM, DEM, aerial triangulation)

(1) Operating time varies based on temperature.

Specifications are subject to change without notice.

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