

P700E UAV



KEY FEATURES

- *Hyperdynamic twin electric engine*
- *140 min longtime endurance and 2.5 kg large payload*
- *Loaded with visible light and infrared light pod, support surveillance day and night*
- *Optional video tracking system, lock the ground moving target in real-time*
- *Powerful image transmission system, realize remote real-time transmission*

The CHC P700E UAV is an independently developed fixed-wing unmanned aircraft that introduced by CHC. Featured by military-grade design, twin electric engines, large payload capacity, remarkable endurance and up to 25 square kilometers working range for single trip, P700E stands out among others of its kind in the market.

Easy for Operation and Maintenance

From the very beginning, this P700E UAV system is designed with ease-of-use and reliable flight performance in mind. Whether for the operations in ground station, or for the body design and technics, numerous special works have been carried out to make sure that users can conveniently and safely operate this aerial vehicle by himself, and also save the trouble of frequent repairing.

Ideal for a Wide Range of Applications

The P700E UAV system not only provides selectable payload options for elastic demand, but also extends the application range by the dual-light pod equipped as the infrared light has strong penetrability which enabling image or video data capture in the foggy weather or for the sea surveillance, and its night vision capability breaks the confinements of traditional devices with only visible light.

Real-time Display and Management by Ground Monitoring Station

Datum and images that captured by the UAV from any device are accessible to users through the screen on ground monitoring station. Also, images, flight track and relevant parameters can be saved on the hard disk in real-time. Meanwhile, with the assistance of this ground station, users can realize map management, flight track planning, playback and retrieval of local videos, and so forth.



Ground Monitoring Station

Technical Specifications

Hardware Performances

- Size(LxWxH): 200 x 330 x 50 cm (6.6 x 10.8 x 1.6 ft)
- Weight: 9.5 kg (20.9 lb) (without payload)
- Wing span: 330 cm (10.8 ft)
- Actual payload: 2.5 kg (5.5 lb)
- Material: Carbon fiber composite material
- Battery: Lithium polymer, 18.5 V, 30000 mAh
- Power: Dual electric brushless motor, backward push

Flight

- Takeoff speed: 40 km/h
- Level speed: 50 - 80 km/h
- Cruising speed: 70 km/h
- Endurance: 120 min
- Maximum ceiling attitude: 3000 m
- Maximum flying range: 80 km

Take-off and Landing

- Take-off: Catapult
- Landing: Parachute

Whether Condition

- Wind tolerance: < Level 6
- Rain resistant: Moderate rain

Payload

- Camera type: Canon EOS 5D digital single lens reflex camera, 35 mm fixed-focus lens
- Dual-light pod (optional)
- High image quality near infrared digital camera (optional)
- High image quality digital camera and high spectrometer (optional)

Data Acquisition and Control

- Transmission frequency: 2.4000 - 2.4835 GHz
- Spread spectrum method: Frequency hopping spread spectrum

- Error checking: 32 bits of CRC, ARQ
- Transmission distance: 30 Km (Depends on the transmission velocity, antenna gain and operating environment)
- Gain:
 - -108 dBm @ 172 kbps link rate
 - -116 dBm @ 19.2 kbps link rate
- Output power: 100 mW - 1 W (20 - 30 dBm)
- Serial port: RS232/RS485/RS422
- Velocity: 19.2 - 230.4 kbps
- Input voltage: 9 - 30 VDC
- Operating environment: -40°C to +85°C, 5-95% humidity, noncondensing

Specifications are subject to change without notice.

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