

Spy Owl 200

Surveillance Version

Solution

We offer a complete Unmanned Aircraft System (UAS) portable solution which contains all the parts needed for your surveillance applications. The package consists of one (1) full composite fixed wing airframe fully installed with retractable gyro stabilized combined EO/IR gimbal, autopilot, laser altitude meter, data link, video link, engine, ESC, professional servos and the well proven Portable GCS with the SkyView GCS Operator software. The solution is aimed specifically for surveillance applications and is very cost-effective. This is achieved through agile and responsive development, which gives customers most value for the money.



Airframe

The fully composite fixed wing airframe is a small unmanned aircraft specially designed to be operated in surveillance missions. It is fitted with a long endurance electric motor and can be hand or optionally catapult launched and recovered on any flat terrain.



Gyro stabilized combined EO/IR gimbal

The aircraft is supplied with a ready to use retractable gyro stabilized combined EO/IR gimbal. Stabilizes video, dramatically reducing unwanted horizontal, vertical, and rotational motion. Video link 16 km LOS is included.

Autopilot - EasyPilot 3.0

The included autopilot, SkyView EasyPilot 3.0, contains all components necessary to control the vehicle, including GPS navigation, IMU, expansion ports. Full automatic start and landing capability.



Portable GCS with SkyView GCS software

Portable GCS is a easy to use rugged Ground Control Station computer equipped with sun-readable display. The included SkyView GCS Operator software together with the EasyPilot 3.0 does all the background processing needed to fly the vehicle.



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Specifications

1 x Unmanned Aircraft

- Wing span: 2.01 m (79.1 inches)
- Length: 1.53 m (60.2 inches)
- Cruise Airspeed: 20 m/s (39 knots)
- Maximum Airspeed: 40 m/s (78 knots)
- MTOW - Hand Launched: 6.5 kg (14.3 lbs.)
- MTOW - Catapult Launched: 8.5 kg (18.7 lbs.)
- Endurance: up to 1 hour (optional 1 hour and 40 minutes)
- Max payload - Hand Launched: 1.7 kg
- Max payload - Catapult Launched: 3.7 kg
- Typical mission altitude 75-1500 m AGL
- Very robust composite structure
- Hand launched or optionally catapult launched. Belly landing
- Includes laser altitude meter for accurate automatic landing



NOTE: Due to LiPo shipping regulations, 5-cell LiPo battery (>10,000 mAh) with EC5 discharge plug is not included and must be purchased separately by the customer from a recommended battery manufacturer.

1 x Gyro stabilized combined EO/IR gimbal

- 13.2x Zoom Ratio (6.6x Optical, 2x Digital)
- Horizontal Viewing Angle: 31° (wide) to 4.7° (narrow optical) and 2.3° (narrow digital)
- PAL or NTSC
- Video link LOS 16 km



1 x Autopilot

- SkyView EasyPilot 3.0 Autopilot
- Sensor and data processing
- Flight management and communication
- Serial port for payloads or data storage
- Payload control capability by serial port or servo PWM.

1 x Portable Ground Control Station

- Ruggedized SkyView GCS Portable Computer with integrated MPEG-4 video server included
- SkyView GCS Operator software included, NATO STANAG 4586 compliant
- Control by joystick or SkyView GCS
- Long range air and ground modem included. Up to 50 km LOS.
- Analog video link, integrated transmitter and receiver. Up to 16 km range.
- Mission, Loiter, Flight Director, Stabilized, Launch and Landing steering modes



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