



GS-1600-SEC Security Surveillance Drone - 4 hours flight time

Specifications and features

GS-1600-SEC is a purpose built long endurance Hexacopter for airborne surveillance operations

This drone is capable of up to 4 hours flight duration with security camera payload and up to 15km range for data and video communications through secure military specification radio links.

The Ground control station provided allows full flight management and remote video surveillance through two monitor screens plus the ability to extend the video out to additional screens.

Two control stations can be provided for separate flight control and video operator control.





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GS-1600-SEC flight endurance is achieved by implementation of a Hybrid power system with on-board liquid fuelled power generator and a Lithium battery pack.

The generator provides 2kW of power to run the Hexacopter continuously while the Lithium power pack provides peak current support under heavy manoeuvring stress and is an emergency backup power source in the event of main generator failure, allowing a safe landing.

The GS-1600-SEC airframe is a carbon fiber construction with removable arm sections for breakdown to transport easily in the provided flight case.

Each Hexacopter is provided as a complete system including accessories and battery chargers.

Radio links are COFDM military grade long range in bands of 800Mhz, 900Mhz and 1.4Ghz to support full time operator control and remote video live streams, one for the flight operator and a separate 4k stream for the video operator, each fully operational up to 15km line of sight from the base station.

the video operators camera is a dual-tech camera system:



Video operator camera:

- 4k High resolution video 30fps
- 14 x Total zoom (3.85mm - 13.4mm optical plus 4 x digital zoom)
- 3-axis camera control and stabilisation
- 13mp digital still images
- On-board micro SD 128GB memory
- Moving target tracking
- Digital image stabilisation
- Optical processor Fog penetration assist

Integrated Thermal camera, co-aligned to RGB camera

- Uncooled Infrared Bolometer <60mk
- 25mm prime lens
- Resolution 704x576 pixels
- Digital zoom up to 8x

Interchangeable camera option:

- Dual sensor RGB/IR Night Vision 1080p with 30x optical zoom
- Co-aligned zooming IR illuminator for 0 Lux video