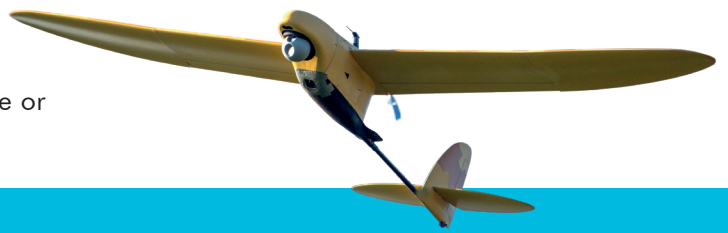


THE LATEST GENERATION OF CONTACT AIRBORNE INTELLIGENCE, SURVEILLANCE & SECURITY MINI UAV SYSTEM

- SPY'RANGER is a Contact Intelligence mini unmanned UAV, offering High definition, Day/Night long range applications and automatic detection, videotracking, geotracking in surveillance or reconnaissance missions



SPY'RANGER

Contact Intelligence Mini Unmanned Aerial Vehicle (UAV)

The screenshot displays the ground control station (GCS) software for the SPY'RANGER UAV. The interface includes a central map view showing a flight path (red lines) and mission profile (green/yellow lines) over a terrain map. A sidebar on the right provides real-time flight data: battery level at 100%, GPS accuracy at 3.8m, altitude at 47m, and speed at 45m/s. A video feed at the bottom right shows the UAV's perspective. The bottom panel features a flight plan editor with a 3D terrain profile and various control buttons.



SPY'RANGER

Integrated mini fixed wing UAV system

MAIN FEATURES

Highly automated

- > Fully autonomous from take-off to landing operated by only a single operator
- > Assisted mode and dynamic route selection by the operator to accommodate moving targets
- > Automatic target detection, geotracking, stabilisation option videotracking & EO-IR merging

Mission efficiency

- > No specific skill & optimised training phase
- > No mission preparation required, less than 12 mn to deploy
- > Light ramp launching device
- > Inaudible @ 200 m distance and stealthy
- > Innovative HD imagery chain with on-board Stanag 4609 processing of a HD TV and HD IR stabilised flow
- > Stanag 4586 friendly

Scalability via Spy'C ground control station

- > Combat proven geographical Information System
- > The combat proven Multi UAV capability
- > IP connectivity enables interfacing with C4I for BMS capabilities and 3D management functions
- > Embedded 3D-simulating capabilities
- > Interoperability with man portable multifunction camera and ground surveillance radar

CHARACTERISTICS

Physical characteristics

- > Fixed-wing aerial vehicle
- > High performance DC brushless electrical engine
- > MTOW: 14 kg including 1,2 kg payload

Flight capabilities

- > Autonomy: 180 mn cruising flight
- > Operating Range: 15 km (30 km optional)
- > Max altitude taking off : 4500 m ASL
- > Speed domain: 0 to 90 km/h
- > Wind conditions : <19 m/s
- > No wind taking off capability

Optronic standard Payload

- > Gyrostabilised 2 axis HD EO-IR gimbal
- > 3 axis Electronic stabilisation
- > High Definition EO-IR gimbal

Transmissions

- > 30 km
- > Full duplex/Full IP
- > Encryption and high availability rate
- > Capability to transmit either HD IR&TV flows in the same time or the full HD flow
- > Stanag 4586 friendly

Standards

- > Tough military standard compliance (Climatic-Mechanics-EMC)

Options

- > Back pack (2 back packs max 25 kg each)
- > Videotracking – EO-IR merging
- > Hand-over capability
- > Multi UAV command & control capability
- > Near-InfraRed Laser illuminator
- > 3D-Simulating system