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

Integrated mini fixed wing UAV system

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**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

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**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