



DRAKO MICRO ELECTRICAL UNMANNED AERIAL SYSTEM (UAS)

SELEX Galileo provides advanced Unmanned Aerial Systems (UAS) that enhance situational awareness for its customers worldwide. The Company delivers comprehensive solutions and is the only European player who can offer a complete and independent understanding and development capability for UAS: from the platform, to the mission system and sensors, to the ground control station.

SELEX Galileo's portfolio of micro UAS includes DRAKO, an electrical quad-rotor system capable of autonomous and semi-autonomous flight, hovering and obstacle avoidance to provide reconnaissance and surveillance information. The on board pan-tilt cameras for day and night operations make DRAKO particularly well suited for urban operations.

DRAKO delivers flexibility, reliability, safety and quick delivery especially to Special Operation Forces and Police Department operations for surveillance and intelligence missions. In addition, DRAKO's obstacle avoidance capabilities help provide access and reconnaissance in areas that are too difficult or too dangerous for humans or large UAVs to reach and survey.

DRAKO vertical take-off and landing (VTOL) UAS is electrically powered and it is ready to fly for a new mission in a few minutes by easily replacing the battery pack. It is one of the lightest systems with a higher endurance to Maximum Take-off Weight (MTOW) ratio as seen from a commercial / civil version.

KEY FEATURES

- Safe, reliable, and easy operation
- Obstacle avoidance features
- Man-portable system (less than 2 Kg)
- One-man operation
- "Under Belly" stabilized payload for optimal coverage
- Autonomous take-off, landing, hovering, flight and navigation
- Electrical propulsion for minimal audio signature
- Digital data link
- Low life cycle cost
- Built-in video enhancement features (stabilization, visual tracking, target locking).

DRAKO Micro Electrical Unmanned Aerial System (UAS)



Infrared and daylight camera vision

TECHNICAL SPECIFICATIONS

Engine/Propulsion	4 Electrical / Brushless- LIPO
Main Diameter	70 cm
Height	35 cm
Max Take Off Weight (MTOW)	<2 Kg
Payload max	1.0 Kg
Endurance max	30 min (rechargeable battery pack)
Data Link Range	5 km
Max Speed	12 m/s
Operational alt. (AGL)	20-100 m
Max ceiling (ASL)	2100 m

Payload cameras

Stabilized payload with full coverage of tilt movements
1 x EO Day/Night colour camera with optical zoom (10x)
or 1 x IR thermal uncooled camera with digital zoom (2x).
other cameras and options available

TYPICAL APPLICATIONS

- Close range reconnaissance
- Reconnaissance
- SOF and Police missions
- Surveillance
- Urban operations.

FLIGHT MODES

- Autonomous take off and landing
- Auto-recovery
- Return home
- Waypoints navigation.

The DRAKO micro UAS is lightweight, has an endurance of over 30 minutes in flight and hovering mode, a robust data link, and a stabilized picture with high resolution offers an optimal solution for various echelons of modern ground forces and is specially suited for Police Department and urban operations activities.



The DRAKO vertical take-off and landing (VTOL)

The Flight Control and Portable Ground Control Station



Flight Control Unit
(double screen version)

Ground Data Terminal