Q SLAM 40 G

Loitering Drone

VISMAGNA

FACING THE CHALLENGE

Q SLAM 40 G

Q-SLAM-40 G is an innovative, all-electric loitering drone. It is a system that can locate, track and engage static and moving targets.

Q-SLAM-40 G is the ideal solution for today's complex combat environments, such as densely populated urban areas or remote locations.

Q-SLAM-40 G is a cost-effective, flexible, robust and durable system that can be easily transported by a team of two in lightweight backpacks. The system can be deployed anywhere it is needed within minutes, ensuring a fast response time.

The system guarantees a flight time of 25 minutes. It can carry various types of warheads and ISR payloads. It is designed in such a way that the operator has complete control over the system. Its electromechanical ignition is continuously controlled by the operator.

The pilot can safely abort the mission if necessary. The fuselage is a folding-wing construction. Its small size and electric motor make it difficult to detect, identify and track even at close range.
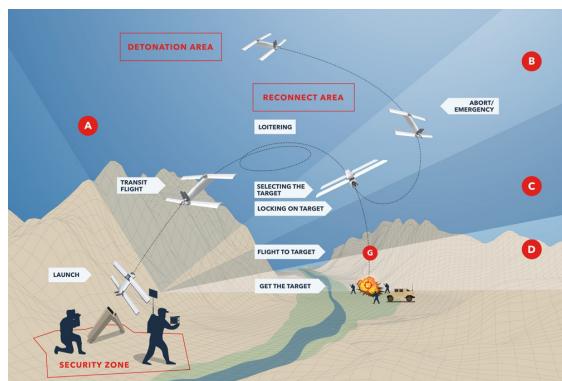
Q-SLAM-40 is equipped with protection against interference signals in its GPS system and communication. The system consists of a pneumatic launcher and a ground control station (GCS). This GCS includes an antenna and a tablet to control the system and flight parameters.

The **integrated** Q-SLAM-40 G **simulator** is a full-service training solution that allows pilots to fly safely, learn and improve their performance. The services consist of dummy platforms running the high-precision **Q-SLAM-40 G** software on the Pilot Ground Control Station.

KEY FEATURES

Q-SLAM-40 G has a variety of automated or piloted flight modes. The target area can be loaded before take-off or changed during flight by visual recognition by the pilot, ensuring complete mission control.

The pilot can view real-time video through the ground control station, which allows him to engage targets beyond the line of sight (BLOS). With the user-friendly software, he can easily set and change flight plans.

Q-SLAM-40 G is fully operational in piloted flight mode in an environment without GPS reception.

The system includes advanced air guidance and navigation systems, as well as payload control.

It is a fully integrated system with a fast, digital, encrypted and bidirectional data connection.

The pneumatic tube launcher has a low thermal and acoustic signature, which allows for multiple take-offs. The **launcher** can be carried on various platforms such as vehicles.

Specification
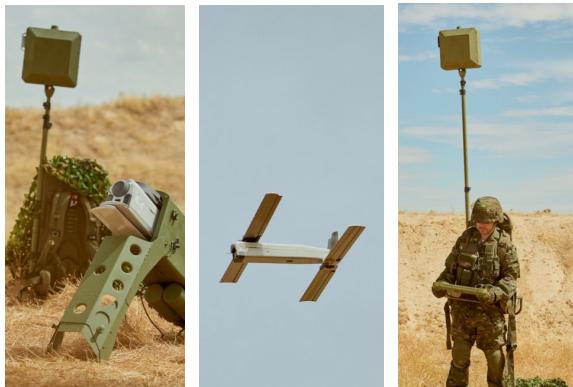
Flight Control	
Stabilization System	Inertial
Speed Control	Auto- throttle
Safety	Autonomous emergency response in case of signal or GPS lost
Communication	
Data link	S-Band
Power	1 Watt
Ground Control Station	
Computer	Rugged Tablet
Controller	Autopilot/ PAD Controller
Antenna Support	Telescopic pole on the backpack or tripod
Video	
90° Tilt Camera	HD Daylight
Payload	
Warhead	1,2 kg dual anti armored

Drone

Airframe	Fiberglass/Epoxy and Carbon Fiber structure (highly resistant to impact)
Wing	Triple compound (highly resistant to impact)
Battery Enclosure	Rigid hard-case/ automatic connection
Dimensions	
Length	0,72 m
Wingspan	1,40 m
Empty weights	3,1 kg
MTOW	5,1 kg
Packaging	110 cm x 37 cm x37 cm
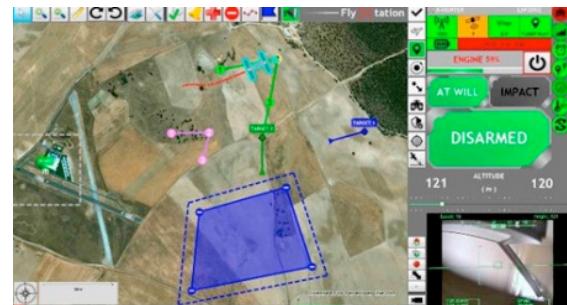
Performance

Endurance	
Flight time	Up to 25 - 45 min
Battery Charging	60 min
Mission radius	15-20 km
Deployment time	
Ready to take off	< 5 min
Speed	
Range	65 – 125 km/h
Loitering	80 km/h
Attack	125 km/h
Wind conditions	Up to 32 km/h
Altitude	
Typical operating	20 – 200 m AGL
Max. ceiling altitude	>1.000 m AMSL
Max. launch altitude	2.000 m AMSL

VISMAGNA - Technology, developed and manufactured in Upper Bavaria

VISMAGNA is a cooperation partner of ARQUIMEA and specializes in modern unmanned aircraft systems. Our focus is on reconnaissance and loitering drones for demanding deployment scenarios. In addition, we research and develop in the areas of artificial intelligence, networked systems and technologies for defending against drones.

Who We Are

We are a small, highly specialized and fast-growing team based in Weilheim in Upper Bavaria, at the gateway to the Alps. Our team is hand-picked and combines competencies from the German Armed Forces, aviation and agile management. We combine a strong hands-on mentality with the rigor and reliability of aeronautical operation. We bring together experience in aerospace, defense, software development and system integration. This results in solutions that are both practical and technologically advanced.

How We Work

Fast and uncomplicated solutions are our trademark. We develop systems that:

• function robustly and are ready for use in a real environment

• can be seamlessly integrated into existing infrastructure

• are modularly expandable and future-proof

In doing so, we consistently adhere to the specifications and standards of aviation. For us, quality, safety and traceability are not at odds with agility but form the basis for sustainable innovation.