

PATROLLER™ S

SURVEILLANCE UAS FOR
HOMELAND SECURITY REQUIREMENTS



- > WIDE AREA SURVEILLANCE
- > BORDER CONTROL, SENSITIVE SITE SURVEILLANCE,
LAW ENFORCEMENT
- > UAV WITH OPTIONALLY PILOTED MODE
- > MULTI PAYLOAD



PATROLLER™S

Surveillance UAS for Homeland Security requirements

Patroller™S is a long endurance surveillance UAS system performing a wide range of Homeland Security missions for police forces, customs, border control, civil or environmental protection, etc.

It is based on proven and mature solutions: EASA CS22 certified and robust platform, proven latest generation avionics, radio links and image chain equipment. Thanks to its open architecture and modular pods under wings, Patroller™S is easily customizable according to the mission:

- Mission payloads: EO/IR, SAR, COMINT, communication relay, WFOV scanners
- Radio link: LOS, BLOS (SATCOM as an option)

The Patroller™S air vehicle can be operated either in UAV or piloted mode. For example, it can be flown to its area of operation within the general air traffic in non-segregated airspace and then it can be operated from a local site in



UAV mode and carry out its missions in segregated airspace. The switching from UAV to piloted mode (and reverse) is immediate.

Homeland security applications

- Border and coastal surveillance
- Law enforcement, surveillance of major events
- Protection of sensitive sites (e.g. industrial sites, areas and infrastructures of natural resource exploitation)
- Civil protection (forest fire detection, natural disaster monitoring)
- Environmental protection (pollution detection, etc.)



Performances

- Endurance: 20 hours
- Ceiling: 20,000 ft
- Standard payload: TV + IR + LRF
- LOS redundant data link: 200km range
- C-band broadcast link for RVT
- ATC-integrated (transponder, VHF on-board)
- Redundant full triplex Flight Control System
- Very low noise

Air vehicle

- Max Take Off Weight: 1t class
- Max payload: 250 kg
- Runway < 1 km
- Speed range: 70-110 knots
- Transportable in freight transport aircraft
- Retractable landing gear

Ground station

- Control station: 2 to 3 operators
- Multi platform
- Hand over capability
- Connection to the operation center through civil standard interfaces
- Ground data terminal: trailer
- Remote Video Terminal (RVT) for intervention teams
- Full mission training simulator

- > 20 hours endurance
- > 20,000 ft ceiling
- Multi payload
- Automatic Takeoff and Landing System (ATOLS)
- Optionally Piloted Vehicle mode (OPV)
- Operational in non-segregated airspace
- Acquisition or service



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