



ADVANCED CENTRIC SYSTEMS B.V

Sea / Air/ Land

ASTLER

SMALL TACTICAL LONG-ENDURANCE RECOVERABLE UAV



THE PROBLEM

Unmanned Aerial Vehicles (UAVs) have been used by military organizations since the Vietnam War. This field has significantly evolved over the years and unmanned platforms are currently used much more commonly and extensively for military as well as for civilian applications. Military organizations currently employ UAVs for an extensive range of missions, mostly regarded as DDD (Dull, Dirty or Dangerous) missions. The most significant advantage of UAVs is the fact that they save lives.

UAVs are used primarily for Intelligence, Surveillance, Target Acquisition & Reconnaissance (ISTAR) missions.

Present warfare situations and modes of battle can benefit from the employment of tactical UAVs. In fact, some military organizations currently employ Mini UAVs (MUAVs) even at the company level.

A modern tactical MUAV should offer advanced day/night real-time imaging capabilities in a cost-effective package that is easy to operate and maintain.

THE SOLUTION

ACS presents ASTLER-UAV – Advanced Small Tactical Long-Endurance Recoverable Unmanned Aerial Vehicle.

ASTLER-UAV is a state-of-the-art Mini UAV system for the modern battlefield, offering the advantages of a proven design: real-time, long-endurance stabilized day/night surveillance in an affordable, user-friendly package.

The ASTLER-UAV system consists of three aerial platforms mounted on a single ground vehicle. Full employment requires three operators using fixed or portable control units.

Other features include a small visual and acoustic signature, Automatic Take-Off & Landing (ATOL), fully automated flight control and an autonomous flight option. The platforms are recoverable and the payloads are effectively protected during the recovery process.

The ASTLER-UAV can be fitted with various electro-optical payloads, including the proven Mini-VESPA and Micro-VESPA payloads from the ACS range. Additionally, the ASTLER-UAV can function as an airborne communication relaying station.

The ASTLER-UAV platform offers excellent endurance (15 hours), an operational range of more than 150 kilometers and a ceiling of 15,000 feet.

The ASTLER-UAV system provides an excellent solution for an extensive range of operational applications, including various ISTAR missions; surveillance support for urban, counterterrorism and patrol operations; communication relaying; HLS and law enforcement operations and even environmental and agricultural monitoring missions

KEY FEATURES & MAJOR ADVANTAGES

Features & Benefits

- Advanced, affordable Mini UAV system.
- Excellent range and endurance.
- Various day/night imaging payloads, including the Mini-VESPA and Micro-VESPA from the ACS range.

- Stabilized day/night real-time imaging.
- Automatic Take-Off & Landing (ATOL), automated flight control and autonomous flight option.
- Small visual and acoustic signature.
- Fully recoverable (platform & payload).
- Extensive range of applications:
 - Tactical ISTAR operations (e.g. over-the-hill intelligence).
 - Surveillance support for urban & counterterrorism operations, border patrols, convoys & other ground maneuvers.
 - Communication relaying.
 - HLS, law enforcement & civilian applications.
- Specifications:
 - Operational radius: 150km
 - Endurance: more than 15 hours
 - Ceiling: higher than 15,000 feet
 - Loitering speed: 40 knots
 - Top speed: 80 knots
 - Maximum take-off weight: 30kg
 - Maximum payload weight for full endurance: 5.5kg
 - Engine: fuel
 - Wing span: 4m

