

UAS-50



Picture for illustration only

BATS UAS-50 is a mature, advanced, combat-proven, extended performance electric Mini-UAS, optimized to provide covert, "over-the-hill" or extended range real-time visual intelligence. The UAS is unique in its ability to fly even in strong winds and on cloudy or rainy days, assuring high operational availability for 3-4 hours and a communication range of up to 50 km (optionally extendable to 80 km).

The system is capable of operating in segregated airspace, following segregation procedures with manned aircraft. The system will manage the traffic information transmutation with Mission ATC tower with a radio communication on radio frequencies.

Fully autonomous, from its point of launch to its accurate parachute and airbag recovery, the system delivers autonomous ease of use and high reliability, providing a very versatile and stable ISR platform. Combining a stabilized CCD and IR payloads with proprietary ground exploitation software, the UAS allows for GPS-marked imagery to be relayed in real-time to the ground station. It presents an ultimate solution for supporting real-time video missions for open area as well as urban scenarios for military, peace keeping, low intensity conflict, security, law enforcement, S&R, disaster management and commercial applications.

Applications

- Monitoring of designated areas or location of interest
- Continuous tracking and monitoring of static and moving targets in open and urban environments including vehicles and humans
- Forward observer for firing units and BDA assessment post firing
- Disaster control and management operations (first responders)
- Search and rescue
- Forward situation awareness and operation command and control capabilities to the HQ
- Maritime Surveillance
- Force protection
- Security operations
- Law enforcement
- Optional Mapping on Demand (photogrammetric) missions
- Loitering around a given point / automatic holding

Features

- Endurance
- Extended control range
- High Performance optional Payloads
- High resolution Video Transmission
- Immediate intelligence
- Severe weather operation
- Ease of operation
- Small logistic and operational footprint

Specifications

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| Endurance | Typically, up to 4 hours |
| Payloads | Gimbaled and stabilized surveillance payload - Dual sensor payload with uncooled IR (optional laser pointer) - Day payload - continuous Zoom |
| Control Range | Video: Up to 50 km (optionally extendable to 80 km) |
| Main communication Link | 2.4-2.5 GHz spread spectrum Data Link |
| Video Downlink | L-band COFDM Technology |
| Navigation | GNSS |
| Video Output | H264/Mpeg-4 AVC |
| Video Recording storing retrieve | All videos transmitted to GCS and the Command Center. |