

Deep sea and Coastal ISR

- Exclusive Economic Zone (EEZ) security
- Ship self-defense
- Offshore facilities security
- Gun fire direction and BDA
- Target acquisition for precision-guided weapons
- Ready for use from any type of vessel
- Automatic identification system



Orbiter® 4 Small Tactical UAS

Continuing the evolution of the Orbiter line and the Small Tactical UAS, Aeronautics introduces the Orbiter 4 STUAS, an advanced multi-mission platform with extraordinary and versatile carrier, mission and endurance capabilities.

Orbiter 4 STUAS delivers top mission performance with its lightest, most versatile and most advanced covert platform available today, for both land and maritime operations.

The UAV can simultaneously carry multiple payloads, extending its ISTAR capabilities. With its ease-of-use, low logistical footprint and small crew

of 3 personnel, Orbiter 4, the runway-free aircraft suits all operational needs.

Orbiter 4 builds on the successful system design of the Orbiter 3 STUAS, with its advanced avionics, communications and ground control features and applications. The acclaimed legacy capabilities of the field-proven Orbiter UAS family remain.

Measure for measure, Orbiter 4 will deliver the same capabilities as the tactical platforms operational today, but with better endurance, serviceability, operational flexibility and cost-effectiveness.



Applications

- Land and maritime ISTAR
- Artillery fire management and BDA
- Target acquisition for precision-guided weapons
- Communications Intelligence (COMINT)
- Electronic Intelligence (ELINT)
- Electronic warfare (EW)
- Communications relay
- Border patrol and reconnaissance
- ISR envelope for strategic facilities security
- Search and Rescue and emergency response

Maritime Applications

- Deep sea and coastal reconnaissance
- Exclusive Economic Zone (EEZ) security
- Ship self-defense
- Offshore facilities security
- Gun fire direction and BDA
- Target acquisition for precision-guided weapons
- Ready for use from any type of vessel

Main Features

- Superior performance suited to variety of ISTAR missions
- Highly transportable vehicle-mounted system
- Engine: spark ignition (SI) fuel-based propulsion with multi-fuel capability
- Low silhouette, silent flight, designed for covert operations
- Automatic takeoff and recovery
- Six autonomous flight modes
- Navigation with or without GPS or datalink
- Multi-payload capability
- Operability in harsh weather conditions, under-cloud base
- Simple assembly and rapid turnaround for bigger-body UAV
- C4I: Shared real-time intelligence based on image reception and manipulation

Maritime

- Vessel integration without the need for flight deck
- Catapult launcher and precision landing on vessels
- Launch and recovery with unique, foldable and compact net



Payloads

- Stabilized triple sensor: day, night (cooled IR) with laser designation
- ISTAR: COMINT, ELINT, VISINT
- Photogrammetric mapping (HDLite)
- Synthetic Aperture Radar (SAR)
- Maritime Patrol Radar (MPR)
- Light Detection and Ranging scanner (LIDAR)
- Automatic identification system

Advanced Image Processing Capabilities

- Automatic video tracker
- Digital zoom and super-resolution
- Video Motion Detection (VMD)
- Video mosaic composition
- D-Roll and image stabilization

Specifications

- Wingspan: 5.4 m
- MTOW: 50 kg
- Payload weight: 12 kg
- Max. speed: 70 kts
- Datalink: LOS, up to 150 km.
- Service ceiling: 18,000 ft.
- Endurance: up to 24 hrs