

ORBITER™ MINIATURE UNMANNED AIRCRAFT SYSTEM

TEXTRON Systems



Expeditionary footprint, covert capability

AAI Corporation and Israel-based Aeronautics Ltd. have teamed to offer the Orbiter miniature unmanned aircraft system (Mini-UAS).

The Orbiter aircraft delivers exceptional payload performance and endurance with a small, expeditionary footprint. In addition, its quiet, battery-powered operation makes it ideal for covert missions.



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AAI, an operating unit of Textron Systems, a Textron Inc. company, has teamed with Aeronautics to deliver the Orbiter Mini-UAS to customers worldwide.*

The Orbiter aircraft is little more than three feet in length and designed for the rigors of intelligence, surveillance and reconnaissance missions. Its light composite construction and battery-powered operation allow easy portability to ensure that a team of two warfighters can quickly deploy, launch and operate the aircraft in forward areas. Depending on the required range, the aircraft has two configurations to handle shorter missions up to 9.3 miles, or extended-range missions up to 31.1 miles.

The Orbiter aircraft is being integrated into AAI's robust One System® Ground Control Station (OSGCS), a platform that is designed to meet NATO standardization agreement requirements for unmanned aircraft interoperability. AAI's interoperable command and control technologies include the OSGCS, One System Portable Ground Control Station, and One System Remote Video Terminal.



The Orbiter Mini-UAS launches using a catapult that incorporates redundant safety features.

Features

- Portable via vehicle and backpack
- Ten-minute assembly
- Catapult launch
- Automatic parachute deployment and air bag recovery
- Controllable using the aircraft's personal ground control station (GCS)
- Camera-guided flight
- Accurate navigation through global positioning system (GPS) or inertial navigation system (INS)
- Gyro-stabilized zoom payload
- Day and night operational capability
- Covert operational capability
- Rapid turnaround
- Lightweight multi-directional communication set or auto-tracking directional communication set configurations

Specifications

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|-------------------|-------------------------------------|
| ■ Wingspan | 7.2 feet (ft.)/2.2 meters (m) |
| ■ Length | 3.2 ft./1 m |
| ■ Take-off Weight | 14.3 pounds/6.5 kilograms |
| ■ Range | 9.3 miles/15 km or 31.1 miles/50 km |
| ■ Endurance | 2-3 hours |
| ■ Speed | 25-75 knots |
| ■ Service Ceiling | 18,000 ft. |



The Orbiter aircraft can be controlled easily using its personal GCS.



An automatic parachute and air bag recovery system can be deployed virtually anywhere.

*Under the terms of the teaming agreement, AAI will lead marketing activities for the Orbiter system in the U.S., including foreign military sales to Israel, and in other countries to be mutually agreed upon in the future.

For additional information, please contact:

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