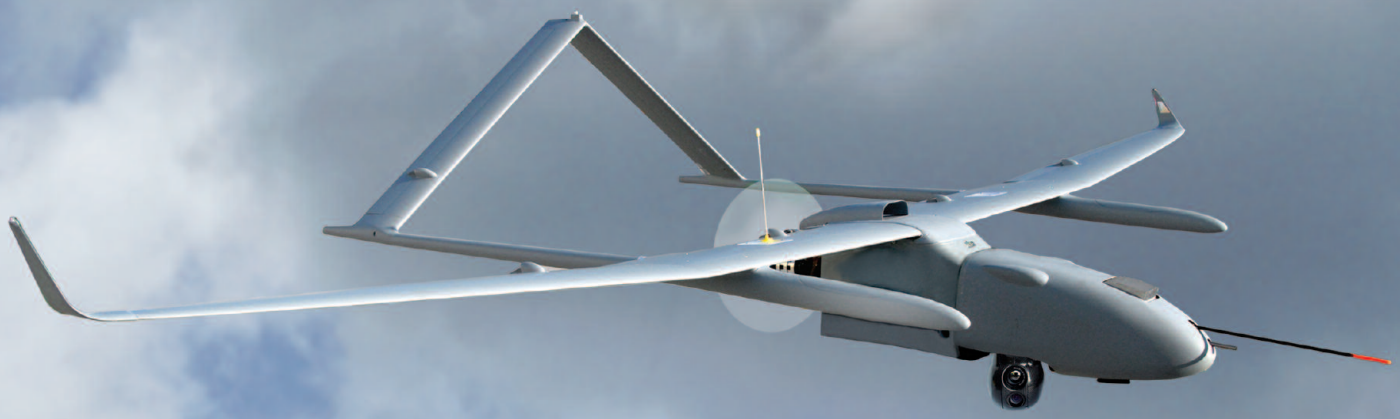
# AEROSONDE® MARK 4.4 SERIES: STRENGTH AND FLEXIBILITY.

TEXTRON Systems



*Supporting military, scientific, research, and homeland security missions.*

## Meets multiple missions

By classification, AAI's Aerosonde Mark 4.4 is a Small Unmanned Aircraft System.

By design, it's a powerful blend of strength and flexibility that meets a wide array of customer requirements. Two variants of AAI's Mark 4.4 series are shown.

AAI®

# AEROSONDE MARK 4.4 SERIES

AAI's Aerosonde Mark 4.4 Series unmanned aircraft blend strength, reliability, and flexibility that support a wide array of customized missions. Aerosonde aircraft can operate in extreme environments and conditions, from harsh desert heat and sand to bitter arctic cold to the ferocious wind and rain encountered while flying inside hurricanes.

While the baseline Aerosonde Mark 4.4 provides numerous capabilities that meet most customer requirements, AAI offers multiple equipment options and an array of payloads and avionics.

Depending on payload configuration, the aircraft achieves 14 to 24 hours of flight with its strong, high-endurance wing, enabling increased time-on-station capabilities for critical intelligence, surveillance, reconnaissance, and target-acquisition missions.

Take-offs can be made from vehicle roofs or an array of hydraulic launchers. Recovery is achieved by belly-landing autonomously or under external pilot control. Payload retraction protects payloads during landing.

Moreover, all Aerosonde aircraft are integrated into AAI's interoperability network of common ground control technologies, including STANAG-compliant One System® Ground Control Stations and One System Remote Video Terminals.

## SYSTEM STRENGTHS

### Airframe

- Endurance = 14 hrs to 24 hrs
  - — Dependent on Payload
- Wingspan = 11.8 ft (3.45 m)
- Maximum Gross Take-Off Weight = 37.0 lbs (16.8 kg)
- Cruise Speed = 50 knots
- Dash Speed = 62 knots
- Ceiling = 15,000 ft (4,500 m) Density Altitude

### Power Plant

- Engine = Type-J, 4-stroke, 24 cc, EFI
- Generator = 120 Watts
- Fuel = 93-octane Premium or 100LL Avgas

### Avionics

- Primary Data Link = 300 MHz UHF (Military Band)
- Visible Navigation Lights
- Infrared Anti-Collision Lights
- Battery Back-Up
- 3-Axis Magnetometer
- Avionics Power = 18 VDC
- Payload Power = 15 VDC

## SYSTEM FLEXIBILITY

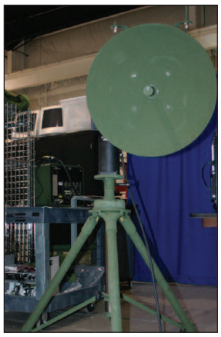
### Airframe

- Low Acoustic Signature
- Long-endurance Intelligence, Surveillance, and Reconnaissance (ISR) Missions
- Increased Payload Capacity with New Endurance Wing
- Custom Payload Integration Ready
- Available Payload Configuations
  - — Options Include EO/IR, Comms Relay, Chem/Bio, MET and Atmospheric Sensors
  - — 15"(L)x6"(W)x7"(H), ~600 $in^3$
  - — 75 Watts Available
- Launch and Recovery Methods:
  - — Vehicle Roof Launch or Rail Launch
  - — Belly Landing
  - — External Pilot or Auto Recovery

### Avionics Options

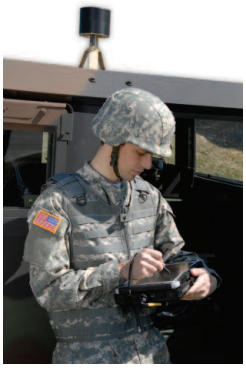
- Secondary Data Link
- Imagery Data Link
- Transponder
- Precision GPS
- Laser Altimeter

***Expeditionary Ground Control Station*** *provides UHF and SATCOM beyond-line-of-sight command and control communications for the Aerosonde Mark 4.4 series, including C-band video support for ISR payload applications.*



***Mini-GDT Directional Antenna System*** *is a complete antenna system providing extended line-of-sight operations for Aerosonde Mark 4.4 series aircraft and includes an omni-directional and 2-foot diameter parabolic directional antennas.*

***Launch Systems*** *consist of a variety of expeditionary, multifunction launch/recovery methods, including a Shadow® Tactical UAS launcher (pictured) that reduces Aerosonde's logistical footprint when deployed with Shadow units.*



***AAI's One System Remote Video Terminal*** *is a modular video and data system that enables warfighters to remotely downlink live surveillance images and critical geo-spatial data directly from UAS aircraft such as the Aerosonde Mark 4.4 series.*

**For additional information, please contact**
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