

AEROSONDE[®] MARK 4.7: REDEFINING EXPEDITIONARY

TEXTRON Systems



Small footprint, transportable and deployable

The Aerosonde Mark 4.7 redefines expeditionary in unmanned aircraft systems (UAS). Its light weight, small logistics footprint, unique launch-recovery system and low cost make it a great choice for customers desiring a long-endurance, intelligence, surveillance and reconnaissance (ISR) applications.



LONG-ENDURANCE ISR



AAI's Aerosonde Mark 4.7 with our integrated launch and recovery system is ideal for maritime operations.

Specifications

Airframe

- Endurance: 10+ hours with EO/IR/LP payload
- Wing span: 11.8 feet (ft.) or 3.6 meters (m)
- Maximum gross takeoff weight:
 - 38.6 pounds (17.5 kilograms) with J-type engine
 - 55 pounds (25 kilograms) with K-twin engine
- Cruise speed: 50 - 60 knots
- Dash speed: 62 - 80 knots at sea level
- Ceiling: 15,000 ft. or 4,500 m density altitude
- Launch and recovery:
 - Auto launch
 - Auto belly or net recovery

Payload Capacity

- 12 inches (in.) length x 9.5 in. width x 9.5 in. height, or approximately 1,000 in.³
- Weight 7.5-10 pounds
- 75-190 watts available

Power Plant

- Engine: J-type, four-stroke, 24 cubic centimeters electronic fuel injection, or EFI
- Engine upgrade: K-twin, Dual cylinder, 4-stroke, EFI
- Fuel: 93 premium octane or 100 low lead aviation gas

AAI Corporation's Aerosonde Mark 4.7 is part of the company's modular fleet of Aerosonde Mark 4 unmanned aircraft systems. With increased capacity over previous Mark 4 aircraft and a low acoustic signature, the Mark 4.7 is ideal for covert maritime operations.

The Mark 4.7 maintains the high endurance of preceding aircraft in the series, yet has the added advantage of a unique launch and recovery system ideally suited for confined area and maritime operations with no ship alterations required.

With its combined electro-optic (EO), infrared (IR) and laser pointer (LP) payload, the Mark 4.7 is a complete maritime target acquisition solution.

- Automated launch and recovery capability
- Car-top or rail launch flexibility
- Multiple energy reduction landing system
- Imagery data link
- Day/night motion imagery payload
- Laser pointer capability

The Mark 4.7 is compatible with AAI's Expeditionary Ground Control Station (EGCS) for fast, easy setup and launch. All Aerosonde aircraft also are being incorporated into AAI's interoperability network of common ground control technologies including the NATO standardization agreement (STANAG) 4586-compliant One System® Ground Control Station and One System Remote Video Terminal.

A typical system includes:

- Three Mark 4.7 aircraft
- One trailer mounted combined launch/recovery system
- Three EO/IR/LP payloads
- EGCS, the newest hardware configuration of AAI's STANAG 4586-compliant One System GCS family
- Associated ground equipment
- Award-winning long-term logistical support

Avionics

- Primary data link: 300 megahertz (MHz) ultra-high frequency, or UHF (Mil band)
- Secondary data link: 300/1,300 MHz (Mil band)
- Imagery data link: C-band (4.4-4.99 gigahertz)
- Payload: Cloudcap Technology payload – TASE T2 day/night payload with laser pointer
- Transponder: Mode 3 identification friend or foe (IFF)
- Precision GPS
- Visible navigation lights
- IR anti-collision lights
- Battery back-up
- Three-axis magnetometer
- Optional laser altimeter
- Avionics power: 18 volts direct current, or VDC
- Payload power: 15 VDC

For additional information, please contact
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