



A-Size Form : actor

SEAScout

Very Small Multi-Mission Unmanned Underwater Vehicle

SEAScout is a lightweight, A-size, very small UUV featuring a reconfigurable payload capacity that enables it to perform multiple maritime missions such as decoy, gateway buoy, neutralizer, data gathering, intelligence, surveillance and reconnaissance. This innovative UUV reduces logistical support costs by streamlining operations.

Compact Size

Scout's A-size form factor allows it to be launched from any launcher and on any sonobuoy platform—it can even be hand launched!

Reconfigurable Payload

Scout offers a baseline payload section that is 10" long (expandable to 22") x 4.5" in diameter and can be configured with a wide variety of payload/sensor packages.

Flexibility

- Open architecture, reconfigurable payload
- CG can shift to vertical "buoy" mode, horizontal "UUV" mode, or any angle desired
- Collapsible antennas for LOS, Iridium and Satellite comms, allowing data exfil without recovery
- Hollow drive train through tail enables a variety of connectors (towed payload sensors, fiber-optic tether, deployable array, data transfer)

Features

- A-size form factor
- Reconfigurable payload
- Open architecture
- Attributable
- Tailorable payload capability
- Lightweight and rugged
- GPS navigation
- Optional launch methods
- Flexible battery options
- Able to exfil data without recovery and reprogrammable mid-mission

Benefits

- Supports surveillance and reconnaissance missions
- Reduces costs associated with support logistics

Compact Design. Reconfigurable Payload. Flexible.

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SEAScout Mk 2, version which demonstrated payload integration at ANTX 2018



We've been providing robotic systems to the U.S. Military for over 15 years.

How it works:

When SEAScout enters the water, the parachute assembly (if required) is jettisoned, the antennas spring upright and SEAScout is ready for use. The antenna assembly comprises three individual elements for flexible configuration of GPS reception, line of sight communication, satellite communication and direction finding radio beacons. When in the stowed position, the whip antennas are bundled together with the parachute assembly to conserve length.

A weight shifting mechanism controls the center of gravity to maintain a vertical "buoy mode" position and ensures that the antenna assembly clears the water surface for transmitting and receiving data. During operation, the mechanism moves to allow the vehicle to travel horizontally in "UUV Mode." This maximizes the mission flexibility and time on station.

Specifications:

- Power and signal connections for two separate payload sensors provided
- Payload Signal Interface: Configurable, RS-232 or Ethernet
- Bus Voltage (nominal): 14.4 V
- Energy Capacity: 230 Wh (standard configuration)
- Depth Rating: 800 ft
- Instrumentation: Attitude Heading Reference System (AHRS), Depth sensor and GPS
- Speed: Up to 15 kts
- Dimensions: 4.875" diameter x 36" length (expandable to 48")

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