



# SEAScout

Family of Retoolable Unmanned Underwater Vehicles

The SEAScout UUV family of systems is a truly modular small form factor option for in the field reconfiguration to meet changing mission demands.

## Compact Size

Centered on a patent pending bulkhead design, an independently sealed common base platform can be paired with one or more daisy chainable independently sealed payload sections for true pick and play UUV deployment capabilities. Starting at true A sized, the SEAScout vehicle can be configured with or without communication and stabilizer fins as well as with primary or rechargeable batteries depending on mission demands.

## Key Features and Benefits

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Self-Sealed Common Base Platform

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In Field Mission Driven Configurability

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Daisy Chain Expandability

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Open Software Architecture

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ROS Enabled Integration

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Mid-Deployment Retaskability

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Single Person Portable

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A-Size Form Factor Available

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12 Knot Sprint Speeds Available

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Multi-Day Durability Available

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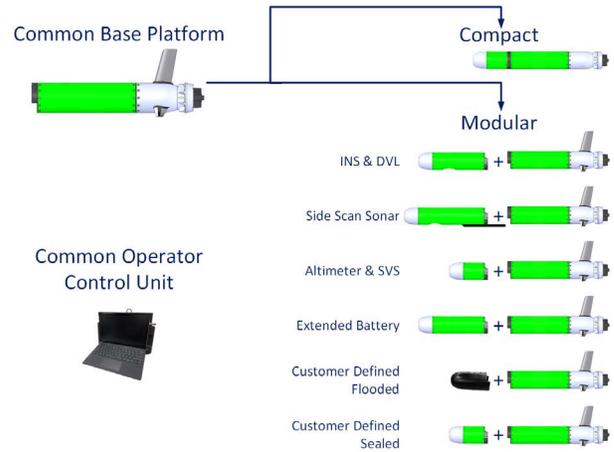
## SEAScout Specifications

<b>Length</b>	27"+ payload length
<b>Weight</b>	16 lbs + payload weight
<b>Depth Rating</b>	200m
<b>Speed</b>	3-12 knots*
<b>Endurance</b>	30 hours @ 3 knots * 05 hours @ 8 knots * 0.5 hours @ 12 knots
<b>Energy</b>	Rechargeable: 360 WH Lithium Ion Primary: 1170 WH Lithium Iron Disulfide
<b>Communication (Optional)</b>	900 MHz UHF
<b>Navigation</b>	Surface: GPS (optional) Subsurface: Depth sensor and corrected compass
<b>Software</b>	QinetiQ Inc. developed Open Source ROS repository built within Docker container
<b>Logging</b>	Mission behavior based configurable Rosbag or CSV data collection
<b>Propulsion</b>	36V flooded outrunner motor with signal pass through
<b>Control</b>	4 independently actuated servo fins with active roll, pitch, and yaw control
<b>Payload Interface Bulkhead (PIB)</b>	100 Mbps Ethernet, USB 2.0, 24V @ 5A
<b>Charging</b>	42V External via PIB
<b>Data Port</b>	100 Mbps Ethernet via PIB

\* top speed and endurance dependent on payload selection

## Payload Options

<b>INS and DVL</b>	iXBlue PHINS C3 and Pathfinder 600kHz
<b>Side Scan Sonar</b>	Sea Scan ARC ScoutMKII
<b>Sound Velocity</b>	Valeport MiniSVS Remote OEM
<b>Altimeter</b>	Sea Scan Echo
<b>Extended Battery</b>	360 WH Lithium Ion hot swappable rechargeable
<b>Acoustic Modem</b>	Tritech Micron Modem
<b>Pinger</b>	RJE ULB-362
<b>Customer Defined Flooded</b>	4" to 24" long with Ethernet, USB, and 24V @5A
<b>Customer Defined Sealed</b>	4" to 24" long with Ethernet, USB, and 24V @5A



## Collaborating with QinetiQ Inc.

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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