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 patented bulkhead design, the 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

Self-Sealed Common Base Platform

In Field Mission Driven Configurability

Daisy Chain Expandability

Open Software Architecture

ROS Enabled Integration

Mid-Deployment Retaskablity
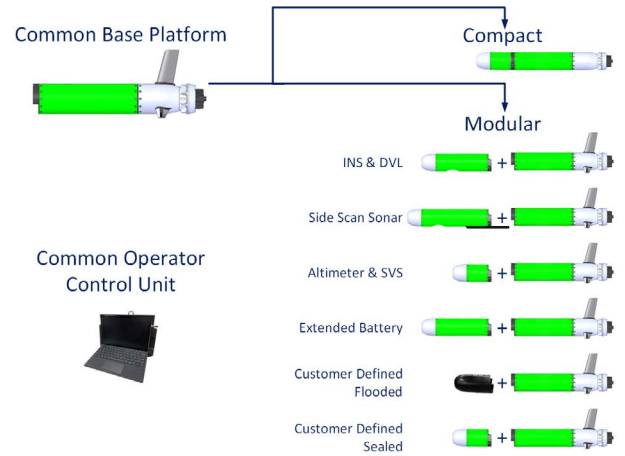
Single Person Portable

A-Size Form Factor Available

12 Knot Sprint Speeds Available

Multi-Day Durability Available

QinetiQ Inc. is an engineering company focused on mission-led innovation providing critical capabilities in support of our Defense and Security forces in the U.S.

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SEAScout Specifications

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

* top speed and endurance dependent on payload selection

Common Base Platform — Compact

Modular

INS & DVL

Side Scan Sonar

Altimeter & SVS

Extended Battery

Customer Defined Flooded

Customer Defined Sealed

Common Operator Control Unit

Payload Options

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