

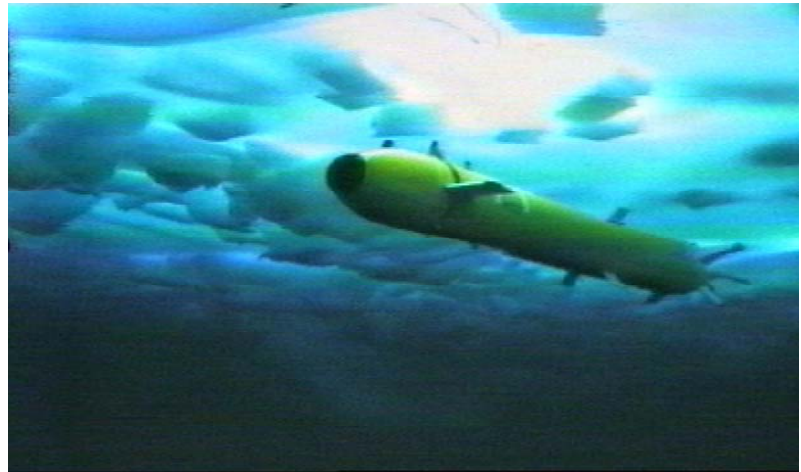


ISE International Submarine Engineering

Over 3 decades of Engineering Excellence

THESEUS

Length: 10.7m
Diameter: 127cm
Displacement: 8600kg
Cruising speed: 4 knots
Range: >1360 km
Depth: 2000m
Propulsion: 6hp brushless dc
 motor and gearbox
 driving single
 propeller
Power: up to 600 kWh Lithium Ion
 Battery
Hull: Pressure hull Aluminum 7075-T6
 Free-flooding section GRP
Controller: CompactPCI
Navigation: Transit IxSEA PHINS INU
 RDI 300 kHz Doppler sonar
 Terminal Low frequency acoustic homing
 Obstacle avoidance Marine Electronics 6201
Navigational accuracy <0.08% of distance traveled
Payload capacity Dry 1200 lbs (550kg)
 Wet 4200 lbs (1910Kg)



International Submarine Engineering Ltd. commenced development of the Theseus vehicle in 1992 under contract with the Canadian Department of National Defence as part of the joint US-Canada Spinnaker project.

Theseus was originally developed to lay long lengths of fiber-optic cable under the Arctic ice pack. The vehicle completed successful deployments to the Arctic in 1995 and 1996. During the 1996 deployment, several 220-km cables were laid in 600 meter water depths under a 2.5 meter thick ice pack, establishing an AUV endurance record of Over 60 hours – all under ice.

The pressure hull payload bay and sensor suite of this AUV are configurable and can be adapted or replaced with new modules designed to support a wide variety of missions and tasks. The large payload bay of the vehicle suits it to carrying a number of smaller AUVs. The variable ballast system in the vehicle also enables it to be “parked” on the bottom for extended periods of time, and then re-activated.

The Theseus AUV is owned by The Canadian Department of National Defence. It is in storage at ISE and is available for charter.

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