Gavia AUV

Autonomous Underwater Vehicle

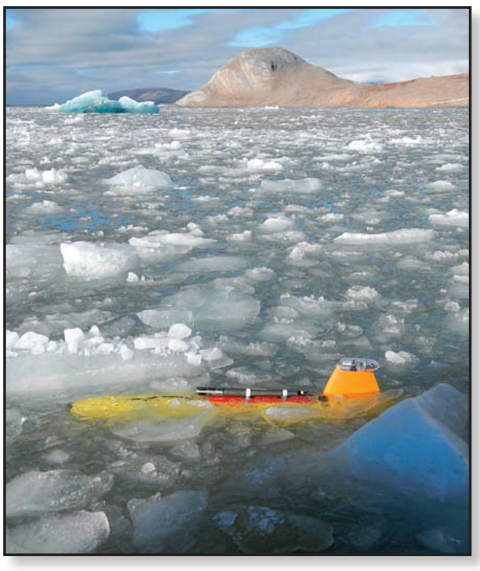


Image courtesy NCS Survey.

Complete Survey Solution in a Low Logistics AUV

THE GAVIA AUTONOMOUS UNDERWATER VEHICLE (AUV) is a self contained, low logistics, modular survey platform capable of delivering high quality data while operating from vessels of opportunity or from the shore.

The AUV's modularity makes it easily reconfigurable, even between dives. The vehicle's ease of use and versatility sets it apart from other systems on the market. The Gavia AUV system can serve a multitude of purposes without sacrificing performance or data quality.

Gavia AUV (500m &1000m)

PRODUCT FEATURES

Features

- Multi mission low logistics, expeditionary AUV
- Industry leading 1000m depth rating
- Fully modular and field reconfigurable, including field swappable batteries
- Cost effective operations by a small teams from vessels of opportunity
- Compact, optimized for overnight shipping
- Highly accurate navigation with optional USBL aiding.
- A wide selection of modular survey grade sensors available, including SAS, SBP, MBES, SSS, camera, environmental sensors, and custom payloads

Applications

Commercial:
- Pre/post Construction Support
- Pipeline Inspection

Defense
- Mine Countermeasures (MCM)
- Rapid Environmental Assessment (REA)
- Search and Recovery (SAR)
- Sonar Training

Scientific
- Oceanography
- Marine Archeology

TELEDYNE MARINE
GAVIA ehf.
Everywhereyoulook™

Gavia AUV

Autonomous Underwater Vehicle

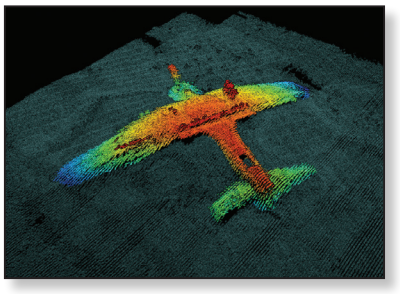
TECHNICAL SPECIFICATIONS

	SPECIFICATIONS
Length	2.2 - 4.5m (configuration dependent)
Weight in Air	59 - 130kg (configuration dependent)
Diameter	200mm
Depth Rating	500m or 1000m
Battery Module	1.65 kWh lithium ion rechargeable cells per module. Up to 3 battery modules can be used on the vehicle for enhanced endurance.
Max Speed	> 5.5 knots
Endurance	Dependent on speed and exact configuration. Typical Defence or Scientific configuration 7-8 hours at 3 knots per rechargeable battery module. Typically 5-6 hours at 3 knots per rechargeable battery module with all sensors (including swath bathymetry). Vehicle can be operated with up to 3 batteries for increased endurance or batteries can be field swapped for continuous operations.
	COMMUNICATION
Wireless LAN	IEEE 802.11g compliant
Satellite Communications	Full global coverage via Iridium link
Acoustic Modem	Tracking and status updates
	NAVIGATION
	High accuracy DGPS ready receiver
	High-precision DVL-aided Inertial Navigation Systems (INS) from iXBlue with Teledyne RDI Doppler Velocity Log (DVL) and direct sound velocity meter.
	Positioning accuracy can be maintained over longer duration deployments by utilizing Ultra Short Baseline (USBL) (optional).

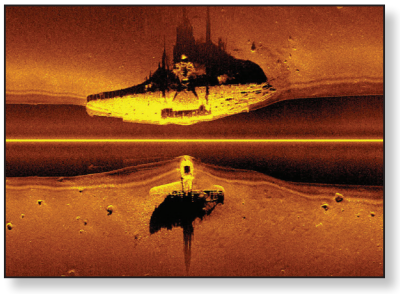
Northrop N-3PB Data Sets

Crashed by Reykjavik Airport during WW2

Northrop N-3PB.



BlueView MBES image of target.



1800 kHz Side Scan Sonar image of Northrop N-3PB.

Detail of bottom hatch from the Gavia camera system.

Gavia AUV Modularity

The modular construction of the Gavia AUV allows the user to conduct a variety of missions with field-changeable modules. Additional Gavia AUV modules can be purchased at later dates to increase capability as mission requirements evolve.

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