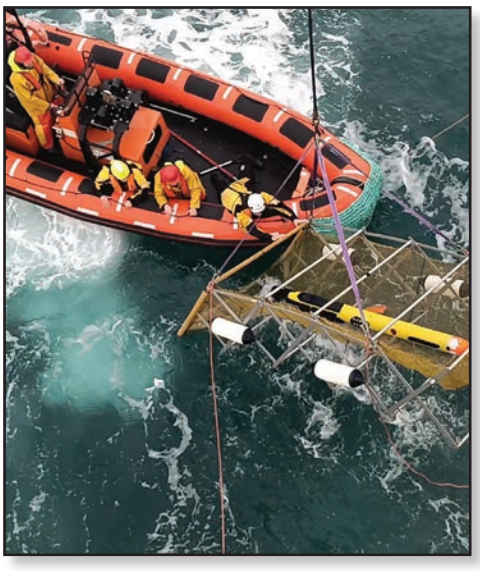
Gavia AUV

Autonomous Underwater Vehicle



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.

This AUV is fully modular, boasts an industry-leading 1000m depth rating, and features field-proven technology used in military, commercial, and scientific applications.

Gavia AUV (500m & 1000m)

Image courtesy NCS Survey.

PRODUCT FEATURES

Features

- Multi mission low logistics, expeditionary AUV
- Industry leading 1000m depth rating
- Fully modular and field reconfigurable
- Field swappable batteries to extend mission duration
- Cost effective operations by small teams from vessels of opportunity
- Compact, optimized for overnight shipping
- Highly accurate navigation with optional Teledyne or leading third-party 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

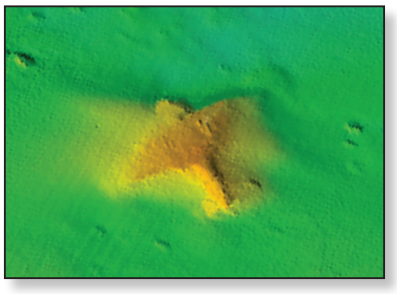
Autonomous Underwater Vehicle

TECHNICAL SPECIFICATIONS

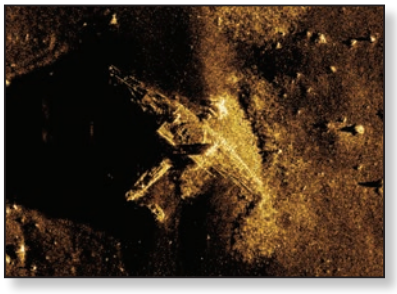
	SPECIFICATIONS
Length	2.2 - 4.5m (configuration dependent)
Weight in Air	59 - 130kg (configuration dependent)
Diameter	200mm
Depth Rating	500m or 1000m
Battery Module	1.65 kWh lithium ion rechargeable cells per module. Up to 3 battery modules can be used on the vehicle for enhanced endurance.
Max Speed	> 5.5 knots
Endurance	Dependent on speed and exact configuration. Typical configuration 7 hours at 3 knots per rechargeable battery module. 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 (C3 or C5) from Exail with Teledyne RDI Doppler Velocity Log (DVL) and direct sound velocity meter.
	Positioning accuracy can be augmented over longer duration deployments by utilizing Ultra Short Baseline (USBL) (optional).

Northrop N-3PB Data Sets

Northrop N-3PB.



T20 image of Northrop N-3PB

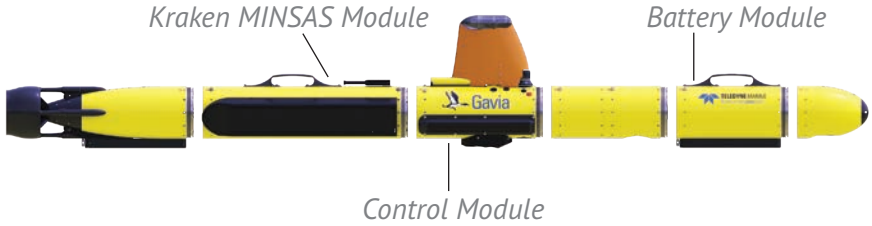


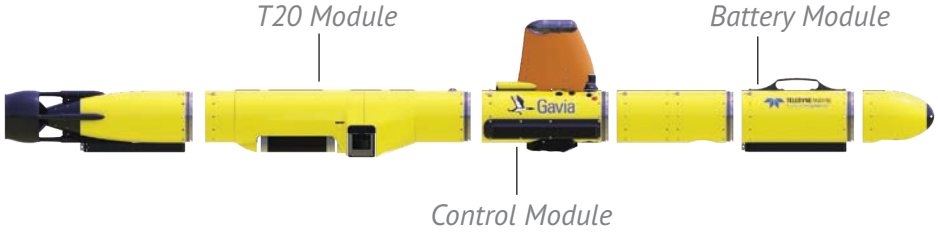
Kraken MinSAS60 image, at 337 kHz, of Northrop N-3PB.

Detail of N-3PB hatch from the Gavia camera system.

Gavia AUV Modularity

The Gavia AUV can carry a variety of sensors that are especially well suited for military, commercial, and scientific applications.





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