



GAVIA AUTONOMOUS UNDERWATER VEHICLE (AUV)

COMPLETE SURVEY SOLUTION IN LOW LOGISTIC 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

NOTICE: Particulars are believed to be correct and subject to revision without prior notice. Interested parties must inspect vessel to check on suitability of the Company's equipment. Company has exercised due diligence to ensure that the data contained herein is reasonably accurate. However, the Company does not warrant the accuracy or completeness of the data. In no event shall the Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein. All optional equipment for Charterers' usage shall be agreed by the Company. Updated as at 7 February 2023.



GAVIA AUTONOMOUS UNDERWATER VEHICLES (AUV)

FEATURES

- Multi mission low logistics, expeditionary AUV
- Industry leading 1000m depth rating
- Fully modular & 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, & custom payloads

APPLICATIONS

COMMERCIAL

- Pre/post Construction Support
- Pipeline Inspection

DEFENSE

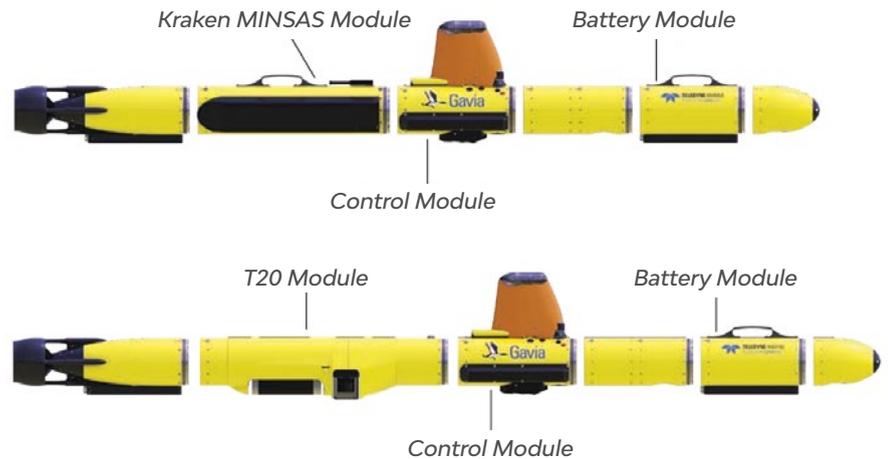
- Mine Countermeasures (MCM)
- Rapid Environmental Assessment (REA)
- Search & Recovery (SAR)
- Sonar Training

SCIENTIFIC

- Oceanography
- Marine Archeology

Gavia AUV Modularity

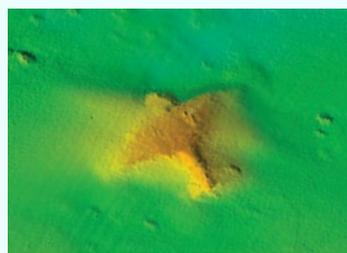
The Gavia AUV can carry a variety of sensors that are especially well suited for military, commercial, and scientific applications.



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

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GAVIA

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 complaint
Satellite Communication	Full global coverage via Iridium Link
Acoustic Modem	Tracking & 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)



Gavia AUV (500m & 1000m)



Image courtesy NCS Survey



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