REMUS 100 Autonomous Underwater Vehicle

The REMUS 100 AUV is a compact AUV containing sophisticated sensors and navigation and power resources that enable it to perform intricate sonar and oceanographic surveys over large areas.

Small enough to be carried by two people, the REMUS 100 is a low-logistics option that can be deployed from the beach, small runabouts, large vessels, and anything in between.

The REMUS 100 can be configured to carry customer-specific sensors and is ideal for survey, mapping and environmental monitoring tasks for marine research, defence, hydrographic and offshore/energy industries.

The vehicle is equipped with a precision Kearfott inertial navigation system and Kongsbergs Geoswath interferometric Sonar for producing high resolution co-referenced bathymetry and sidescan sonar images.

In addition, the REMUS 100 comes with the Edgetech 2200-s 300/600kHz sidescan sonar, perfect for pipline survey, benthic habitat mapping and seafloor classification.

Hire the REMUS 100

AMC Search can provide a range of services to meet your requirements, including:

- AUV Operation: hire the vehicle and up-to two operators on a daily basis
- Data processing: raw data hand-off or provision of a full report and processed data product.

AMCS
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To find out more about using the REMUS AUV, contact: AMCS.Projects@utas.edu.au

www.amcsearch.com.au/AUV

Technical Specs

- Diameter – 190mm
- Length – 1700-2100mm (Depending on configuration)
- Weight in air – 36kg (Dependent on configuration)
- Maximum working depth – 100m
- Main battery capacity – 1Kw
- Speed – 0.5-2.6m/s depending on sensor configuration
- Navigation – Teledyne RDI 600kHz DVL aided Kearfott T16 INS which can be aided by Hydroid LBL if required. Commercial GPS (12 Channel GPS, WAAS enabled) on surface
- Endurance – Up to 10 hours depending on sensor configuration and speed
- Communications – Hydroid ranger live tracking and communications unit underwater. WIFI and Iridium communications on surface
- Sensors
- YSI 600XL Conductivity and temperature sensor
- Teledyne RDI 600 kHz Doppler Velocity Log
- EdgeTech 2200-S Side Scan Sonar (300/600 kHz)
- Data Instruments Pressure Sensor – Model SA 200
- GeoSwath 500 kHz Interferometric Sonar (Bathymetry measurement)