Our New Generation Man-Portable AUV
REMUS 100
AUtonoMoUs UndERwAtER vEhiclE
Hydroid Sales
(US)  +1 508-563-6565
(Europe)  +44 2392 417 222
sales@hydroid.com
Hydroid Support
(US)  +1 508-685-9127
(Europe)   +44 2392 417 222
techsupport@hydroid.com

APPLICATIONS
- Hydrographic Surveys
- Mine Countermeasure Operations
- Harbor Security Operations
- Environmental Monitoring
- Debris Field Mapping
- Search and Salvage Operations
- Fishery Operations
- Scientific Sampling and Mapping

The Perfect Balance of Design & Technology
The reimagined New Generation REMUS 100 is designed and built with the latest technology while maintaining the performance and engineering quality our customers have come to expect from our AUVs.

Key Features
- Hydrodynamic, Multi-Functional Design
- Data You Can Trust
- Performance You Can Count On
- Flexible, Modular System
- Open Architecture Platform

Intelligent Marine Robots You Can Rely On
Dependent on vehicle speed, sensor configuration, operating environment and mission profile, the system may be programmed to operate at speeds up to 5 knots.

The specially designed ADCP/DVL transponder can be used as reference beacons for the vehicle during operation. The transponders are preset to listen for a specific signal, which is transmitted by the Ranger. The vehicle may then automatically lock onto the signal, reply. The vehicle may then independently from the vehicle’s transponder that is completely independent from other systems and may be interrogated at any time by the Ranger.

The REMUS Ranger is a cockpit, high-level, portable, powerful, all-weather, all-terrain vehicle designed to operate safely, independently, and effectively in and around hazardous areas and places where traditional manned vehicles cannot go.

Each REMUS V100 and V100-Ranger 100 vehicles has a turn key system that meets the requirements of the customers, and is designed to provide an optimal solution for each individual customer’s needs.

The system will be delivered as a complete sensor suite and configuration, providing flexibility for the customer’s needs and budget.

Ruggedized Laptop
- With 15.6” display
- Intel® Core i7 processor
- 24 GB RAM
- 500 GB SSD
- Windows 10

Inertial Navigation System (INS)
- Includes accelerometer, gyroscope, magnetometer
- Provides accurate 3D orientation

GPS/Wi-Fi/Iridium Antenna
- Includes a new high speed Gigabit Ethernet interface on a common bus system that supports a constant 1 Gbps throughput.
- Modules include a GPS constellation, Wi-Fi and Iridium satellite

Advanced Navigation System
- Includes a new high speed Gigabit Ethernet interface on a common bus system that supports a constant 1 Gbps throughput.
- Includes a new high speed Gigabit Ethernet interface on a common bus system that supports a constant 1 Gbps throughput.

Custom System Configuration Options
- Environmental Sensors
  - Temperature
  - Salinity
  - Oxygen
  - Conductivity
  - Depth

- Communication/Navigation Equipment
  - Inertial Navigation System
  - Iridium Communications
  - Military GPS
  - Wi-Fi Communications

- Imaging Hardware
  - Video Camera Recorder (VCR) Module
  - Bathymetric Side Scan Sonar

- Environmental Sensors
  - Oxygen Optode
  - Temperature Sensor
  - Conductivity Temperature Sensor
  - Fluorometer/Backscatter Sensor

- Hydrographic/Navigation Equipment
  - Gap-Filler Sonar
  - Video Camera Recorder (VCR) Module
  - Bathymetric Side Scan Sonar

- Water Column and Inlet Equipment
  - Portable low-drag transducer transmits and receives wideband signals from the vehicle and transponders to the Ranger unit.

- Mission Specific System Configurations
  - Mine Countermeasure (MCM)
  - Security Surveillance
  - Environmental Monitoring

- VIP-Hosted Laptop
  - Laptop provided with the system may not be the one shown and is subject to substitution depending on availability.

- Products and Services
  - Ruggedized Transit Cases
  - Operations and Maintenance Manual
  - Operations and Maintenance Spares
  - REMUS Ranger and Towfish
  - Ruggedized Laptop with VIP Software
  - Navigation Transponders (Qty-2)
  - Wi-Fi Communications
  - Vehicle Lifting Handles
  - Acoustic Communications
  - Conductivity Temperature Sensor
  - 300 kHz Phased Array DVL

- Plus Listed Capabilities
  - Fluorometer/Backscatter Sensor
  - Oxygen Optode
  - Temperature Sensor
  - Fast Response Conductivity
  - Environmental
  - Hydrographic/Survey
  - Cutting-Edge
  - Portable low-drag transducer transmits and receives wideband signals from the vehicle and transponders to the Ranger unit.

- Expanded
  - Provides current profiling, 3D bottom interaction for extended ranges.

- The core electronics have been designed to optimize the use of legacy payload modules. A new modular elliptical nose reduces drag.

- The specially designed ADCP/DVL transponder can be used as reference beacons for the vehicle during operation. The transponders are preset to listen for a specific signal, which is transmitted by the Ranger. The vehicle may then automatically lock onto the signal, reply. The vehicle may then independently from the vehicle’s transponder that is completely independent from other systems and may be interrogated at any time by the Ranger.

The REMUS 100 System is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.

The system is designed to provide an optimal solution for each individual customer’s needs.