REMUS 100 Specifications:

- **Maximum Diameter:** 19 cm (7.5 in)
- **Maximum Length:** 160 cm (63 in)
- **Weight In Air:** 37 kg (< 80 lbs)
- **Trim Weight:** 1 kg
- **Maximum Operating Depth:** 100 m (328 ft)
- **Energy:** 1 kw-hr internally rechargeable Lithium ion
- **Endurance:** 10 hrs at optimum speed of 1.5 m/s (3 knots) > 8 hrs at 2.6 m/s (5 knots)
- **Propulsion:** Direct drive DC brushless motor to open 3-bladed propeller
Velocity Range: Up to 2.3 m/s (4.5 knots), variable over range

Control: 2 coupled yaw and pitch fins

On / Off: Magnetic switch

External Hook-Up: 2-pin combined Ethernet, vehicle power and battery charging; 4-pin serial connector

Navigation: Long baseline (LBL); Ultra short baseline (USBL); and Doppler-assisted dead reckoning

Transponders: 20–30 kHz operating frequency range

Tracking: Emergency transponder, mission abort, and in-mission tracking capabilities

Acoustic Doppler Current Profiler (ADCP) / Doppler Velocity Log (DVL)

Side Scan Sonar

Standard Sensors:

Navigation data including: Long baseline (LBL)

Conductivity & Temperature

Pressure

Dual frequency side scan

Acoustic modem

Acoustic imaging system

Video camera

Optional Sensors:

Inertial Navigation System

GPS

Iridium

Digital Ultr-Short Baseline (DUSBL)

Optical sensors: fluorometer, light scattering, turbidity sensor

Software:

GUI-based laptop interface for programming, training, post-mission analysis, documentation, maintenance, and troubleshooting

Data Exporting and Reporting:

HTML report generator, direct Matlab and ASCII text export

http://www.hydroidinc.com/100spec.html
Shipping: 2 reusable cases for all equipment, each less than 150 lbs (suitable for overnight transportation)

System Options: Multi-vehicle capability (up to 4 REMUS AUVs can run simultaneously)

Gateway Communication Buoy