NAVAL OCEANOGRAPHIC OFFICE

Autonomous Underwater Vehicles – REMUS 600

The Naval Oceanographic Office (NAVOCEANO) enlists several types of autonomous underwater vehicles in its data collection efforts. NAVOCEANO's most recent acquisition, REMUS 600, is designed in collaboration with Hydroid Inc., with Office of Naval Research funding to support the U.S. navy's need for littoral operations requiring extended endurance and increase payload.

REMUS 600 is a free-swimming programmable and redirectable AUV capable of conducting pre-programmed independent operations from a host platform or shore facility. It can dive to 600 meters and has integrated physical oceanography and bottom-mapping sensors well suited to support mine warfare and navigation requirements.

REMUS 600 Specifications

Length	14 ft (4.3 m)
Diameter	28 in (0.7 m)
Operating depths	9 to 2000 ft (3 to 600 m)
Weight	700 lbs (320 kg) neutrally buoyant in water
Range	80 to 110 nm (150 to 200 km) at 4 kt (2 m/s)
Energy	rechargeable lithium ion battery packs (11 kWh, 27V)
Endurance	20 hours
Trim Control	Fixed ballast
Communications	Subsurface: acoustic pulse; surface: iridium, Wi-Fi
Control	Preloaded in survey, redirectable during mission
Control Surfaces	Tri-fin tail
Drive Motor	Electric
Propulsion	12 in carbon fiber propeller

REMUS 600 Sensors

Side-Scan Sonar	EdgeTech, 230/850 kHz
Multibeam Sonar	Kongsberg 3002, 300 kHz
GPS	Preloaded with mission parameters
Conductivity/dept	Neil Brown Ocean Sensors Inc.
Pressure	Paroscientific, Inc., precision pressure sensor
OBS	WET Lab, ECO puck
ADCP	Teledyne RD Instruments

For more information, call NAVOCEANO Public Affairs at 228.688.5649

Rev. 8/09