Proteus1000 ROV

Marine Inspection, Exploration and Recovery Tool

Proteus 1000e ROV

For over four decades, Hydroacoustics Inc. (HAI) has been recognized as a leader in underwater marine technology. Since 1974, our HLF (Hydroacoustic Low Frequency) Acoustic Sources can be found on U.S. Navy submarines.

The Proteus Series of underwater remotely operated vehicles (ROVs) represents the latest technology in the areas of underwater exploration, marine inspection and observation, search, rescue and recovery. *The Proteus 1000e excels at long length pipeline inspection.*

Benefits:

- **Go far, over 17,000 ft (5km), inspect aqueducts, pipes tunnels**
- Battery operated for portability
- 3.5-5mm tethers for best control and super light weight
- Enhances your operational effectiveness, saving time and money
- Goes deep, where a diver cannot reach
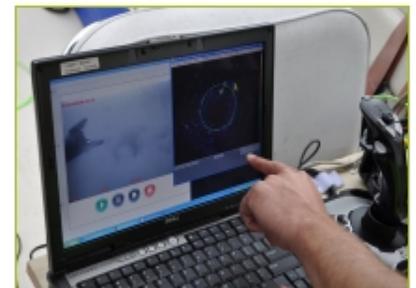- Custom built to meet your specific needs

The Proteus1000e ROV is ideal for small boat and platform operations, where a single operator or quick launch is required. This battery-powered underwater remote operated vehicle means you won't need to drag external power with your ROV or heavy tether reels to remote spots. You can bring the Proteus1000e ROV onsite, and it will be in the water and running within a few short minutes.

Our **open architecture** design enables you to define your ROV capabilities by adding only those options that your mission requires. Our new Ethernet capabilities open up more payload choices including **High Definition cameras** and Ethernet communications based end sonar. Also added is a laser scalar.

Our Proteus ROVs come with a 3.5mm tether that is stronger than those that are multiple times larger. They are built to be the most stable ROV platforms available, giving you the ability to take the highest quality videos for your mission.

All ROV controls are managed utilizing your laptop and a joy stick. Our graphical user interface provides a unique intuitive control panel screen. This screen includes the Proteus Series ROV operational status, video, and sensor data, as well as joystick control configuration. Some available ROV accessories are: sonar, additional cameras, manipulator arm, GPS, water tester, thickness gauge, CP Probe, video enhancement, laser scalar and more. How would you like your ROV customized?

If ROV safety, lower total system weight, performance, and affordability are important to you, call us today and let us build an ROV just for you. Our ROV is backed by the best warranty in the industry.

Proteus 1000e

ROV Size (approximate)	**28 in L x 18 in W x 17.9 in H, 71.1cm L x45.7cm W x 45.5 cm H**
ROV base unit Weight (approximate)	**137 lbs, 61.2kg**
ROV Depth Rating	**1000 feet, 305m**
(2) Rechargeable ROV Batteries (NiMH) (M Cells)	**6 – 8 hours nominal run time** **One pair = 960 watt-hrs**
(2) Rechargeable ROV Batteries (NiMH), (M Cells), Spare	**6 – 8 hours nominal run time**
(2) Battery Chargers	**M Cells Battery Chargers**
Thrusters	**Two (2) forward, one (1) vertical, one (1) horizontal** **24 lb forward thrust** **Forward speed ~ 2.0 knots**
Cameras, Fixed	**Choice of one: Color .5 Lux 525 lines of resolution NTSC or PAL format mounted on tilt bar or .0003 Lux b/w cameras, forward facing. A second camera trained on the manipulator arm is recommended, color or b/w** ***Optional:* HD color camera available as *option***
Lights	**2 Ultra bright, energy efficient LED lights 540 lumen ea, 9 watts on tilt bar, aligned with your camera**
Sonar	***Optional*** **RS422:** **Imagenex 881A (3 band) or 852 multi-frequency (2 band) sector scan sonar** **Tritech, Micron DST, Kongsberg sector scan sonar** **Imagenex 831A Pipeline profiling sonar** **Ethernet:** **Blueview P900-2250 Multi-beam Imaging sonar**
Control System	**Control software for your laptop PC, operations manual, Graphical User Interface; time, date, depth, pressure, temperature, joystick hand controller, compass heading & video management system for sonar and video recording and playback. All data displayed simultaneously on a single monitor, (Ethernet sonar and HD camera on same P1000e requires two laptops)**
Tether link:	**Fiber optic tether allows up to:** **1 NTSC video channel, that can select from up to 4 BW or Color video cameras** **2 RS232 or RS422 channels (ROV control + one channel for RS422 based sonar)** **A 3rd RS232 or RS422 channel for other accessories** **and** **An Ethernet link with up to two ports, which enables use of :** **Blueview P900-2250 Multi beam Imaging sonar** **1080p HD video camera (max 2048 x 1536 resolution)** **Signal system NTSC/PAL Interface**
Tether	**305m/1000 feet negatively buoyant tether included with Tether Management System with fiber optic Rotary joint,** ***neutrally buoyant tether optional***
Manipulator Arm and Attachments	**Optional**
Transit Case	**Case for ROV – Water tight with Wheels and Handle**
Proteus ROV Top Box	**Takes fiber optics signal and converts to USB for connection to laptop computer**
Warranty	**2 year limited**