

xBot® Micro-Remotely Operated Vehicle

Phoenix International's xBot® is a specialized third-generation vehicle that redefines capability and performance in a small, extreme depth micro-ROV. Its size, high-resolution video inspection capabilities and standard operating depth rating of 6,000 meters enables xBot® to explore highly constrained, extremely hazardous areas.

The vehicle is a stable, highly maneuverable, battery powered, fiber optic cable controlled platform that can be operated stand-alone, from a deployment cage, or integrated underwater on a host platform (ROV, sled, or submersible). Further, the xBot® eliminates the use of pressure vessels and penetrators (except for the camera) by using oil compensated, pressure tolerant components which allows for a reduction in the overall vehicle size, weight and cost.

xBot® supports a variety of missions including:

- Pipe, Tunnel, & Platform Inspections
- Diver Aid & Documentation
- Hazmat or Environmental Surveys
- Emergency Response Inspections
- Damage Surveys
- Deep Ocean Science
- Ordinance Location & Inspection
- Wreck Investigations Requiring Hull Penetration

Contact us to learn more

www.phnx-international.com

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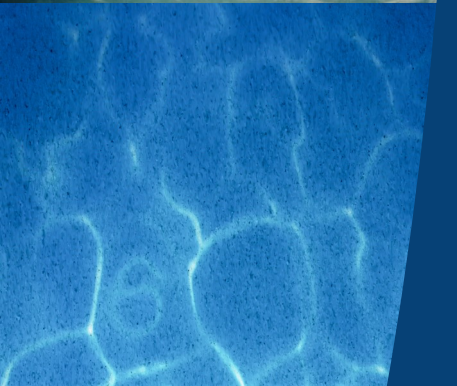
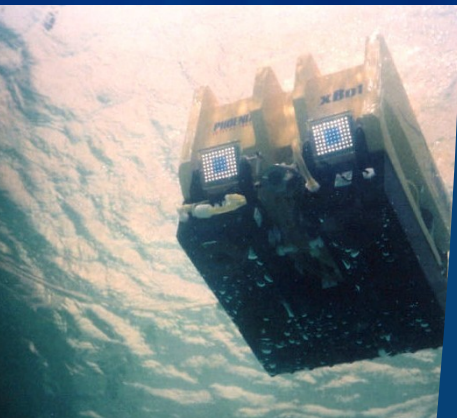
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General

Weight in Air	49.9 kgs (110 lbs)
Dimensions	Length: 60 cm
	Width: 40 cm
	Height: 41 cm
Maximum Operation Depth:	6,000 m

Vehicle Description

Thrusters	3 x 50 or 60 W each
	2 x axial – 3 lbs thrust
	1 x vertical – 1.5 lbs thrust
Battery	Lithium Polymer (500 wh)
Mission Duration	Up to 3-5 hours – with Lithium Polymer
Video	2 x color video cameras: 1 fixed; 1 rotating
	570 lines of resolution, 0.3 Lux
Lighting	1 x 30 W variable intensity, LED fixed
	1 x 30 W variable intensity LED rotating
Tilt Mechanism	Operator controllable ($\pm 90^\circ$)
Tether	Vehicle deployed: 500 m (1,640 ft) SMF
Options	Imaging sonar (limited to 750 m depth)
	Deployment cage with or without tether recovery
	Reduced depth rating foam

xBot® Features

- Pressure Tolerant Electronics
- Stable, Rechargeable, Lithium Polymer Batteries
- Reusable or Expendable Single Mode Fiber Link Spools from xBot® and/or Host
- Easy Reconfiguration for Diverse Missions
- Variable Intensity LED Lighting Arrays

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