

xBot II Specifications



General

Weight in Air	39.5 kgs (87 lbs.)
Weight in Water	Neutral - variable ballast
Dimensions	Length: 56 cm (22 in.) Width: 33 cm (13 in.) Height: 35.5 cm (14 in.)
Maximum Operating Depth	7,000 m
Thrusters	3 x 40 W each 2 x axial – 3 lbs. thrust 1 x vertical – 1.5 lbs. thrust
Battery	1000 Wh Lithium polymer (32 V)
Maximum Power Consumption	6 – 7 A
Mission Duration	Up to 12 hours
Communication	Video and data multiplexer
Video	2 x color video cameras, 1 x fixed; 1 x rotating 570 lines of resolution, 0.3 Lux
Lighting	4 x 30W LED arrays (variable intensity) 1 x 15W rotating LED spotlight (variable intensity)
Tilt Mechanism for Camera and Lights	Operator controllable ($\pm 90^\circ$)
Tether	Vehicle deployed: 500 m (1640 ft.) of single mode fiber, 80 lb. breaking strength
Ballast System	Adjustable, surface controlled
Other	Optional imaging sonar (limited to 750 m depth) Additional video camera 6 x digital; 2 x analog I/O channels

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Vehicle Description

Phoenix International's xBot II is a specialized second-generation vehicle that builds off the experience gained with its predecessor micro-ROV xBot. Characterized by its small footprint, highly maneuverability, and low cost; this inspection and video documentation ROV especially suited for penetrating confined areas as was demonstrated on Discovery Channel's, The Last Mysteries of Titanic, produced by James Cameron. Designed to operate from an underwater host platform (ROV, sled, or submersible), the battery-powered xBot requires only a fiber optic link. xBot II 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.

