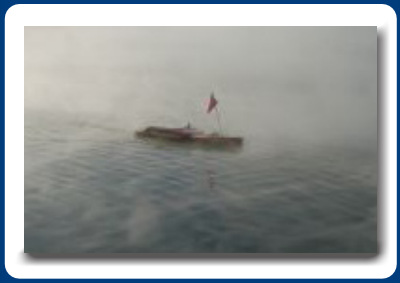
OCEANSCIENCE

Q-Boat 1

Remotely-Operated Instrumentation Boat



Maximize ADCP Survey Efficiency

The Oceanscience Q-Boats are the number one choice for reliable remotely-controlled acoustic Doppler current profiling in streams, rivers, lakes and coastal waters all over the world. Whether you need to reduce your survey time, keep people safe during difficult conditions, or access hard to reach locations, there is a Q-Boat to suit your survey and your budget. Mounts for all popular acoustic Doppler profilers are available as standard.

Q-Boat 1

The Q-Boat 1 is a rugged electric boat for easy, safe, unmanned measurements of currents, bathymetry and discharge. The Q-Boat 1 was developed for US and Canadian government agencies expressly for measurement of discharge with acoustic current profilers. The hull is a very low-drag displacement form with a wide beam for stability and good handling characteristics. Two people can easily handle the boat; it fits in the bed of a pick-up truck.

Deployment

The Oceanscience Q-Boat 1 is built for heavy payload, high endurance, or custom sensor deployment. The Q-Boat 1 is powered by a single outdrive. Endurance at typical operating speed is over three hours using the compact and easily replaceable NiMH battery pack. Endurance can be increased by adding additional batteries. Electronics are located below deck in a watertight compartment.

Bathymetry And Custom Sensor deployments

The Q-Boat 1 is ideal for in-shore bathymetric surveying using Doppler current profilers, single beam echo sounders, or deployment of water quality monitoring instrumentation. Add GPS location and data handling options such as the powerful Oceanscience OysterPE2 on-board computer or Hydrolink radio modems, to make the Q-Boat the ultimate compact survey platform.

Q-Boat 1 Specifications

Both the QB-1 platform may be customized for individual customer requirements, however the specifications of the standard boats are listed below.

	Q-BOAT 1 SPECIFICATIONS
Typical Cruising Speed	5.5 fps or 1.65 m/s
Top Speed	1.8 m/s
Hull Length	84” or 213 cm
Hull Width	28” or 71 cm
Hull Depth	7” or 18 cm
Battery Type	NiMH
Battery Endurance - Cruising Speed	3 hours with single battery
Payload	44 lbs. or 20kg
Motor	Single 12V electric motors
Hull Material	Molded composite hull and deck
Weight	75 lbs or 34kg with lead acid battery
Hardware	Stainless Steel and Aluminum
R/C Control	Futaba 2.4 GHz
Remote RF Scheme	FHSS
Remote Frequency	2.4 GHz
ADCP Size	2” - 9” diameter

Warranty

One year on all QB-1 components.

Contact Information

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