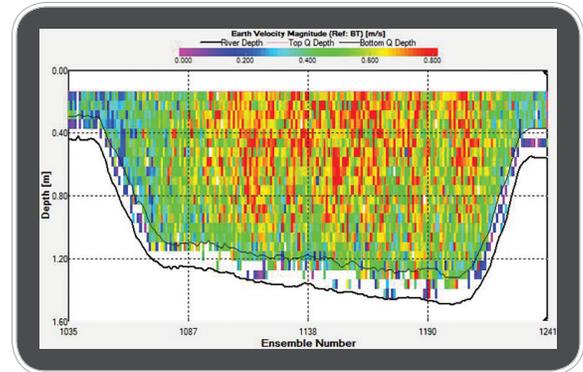


Teledyne Oceanscience

Q-Boat 1250

Portable, Value-Priced
Remotely Operated Boat
for ADCP Measurements



Teledyne 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.

Portable and Convenient

The use of lightweight and resilient ABS hulls and a collapsible sliding crossbar makes the boat convenient for a single operator. Transportation to and from the deployment site is easy; simply slide the outriggers towards the main hull and pick up with one hand. To deploy the boat, slide the outriggers back, place the boat in the water, and start your measurement process.

Robust and Powerful

The Q-Boat 1250 is easy to operate. The innovative propulsion system uses two thrusters, one in each outrigger; an advanced 2.4 GHz remote control transmitter differentially adjusts the two thrusters to steer the boat. The result is a robust and

highly maneuverable boat with no rudder or steering linkages. The Q-Boat 1250 can attain a 2.3 m/s (7.5 fps) top speed using the standard battery pack, and the remote control transmitter can be adjusted to allow effective profiling at speeds as low as 30 cm/s (1.0 fps).

Cost Efficient

Select survey sites based on best measurement locations. The Q-Boat 1250 does not need a tether line or bridge for deployment, which saves time and resources. Simply deploy your Q-Boat and start collecting your ADCP data!

PRODUCT HIGHLIGHTS

- Reduce survey time and optimize your measurements by removing the need for tag lines.
- Improve personnel safety by removing the need to enter the water.
- Increase survey efficiency and peace of mind with real-time data access directly to your shore-based laptop.
- Increase staff efficiency with fast, single-person survey mobilization.
- Leverage your existing assets—this vehicle is compatible with most industry-standard ADCPs.



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TECHNICAL SPECIFICATIONS

Typical Cruising Speed¹	1-1.5 m/s (3.3-5.0 fps)
Top Speed¹	2.3 m/sec (7.5 ft/sec)
Hull Length	127 cm (50")
Width (extended)	94 cm (37")
Width (transport)	64 cm (25")
Height (no instrument)	32 cm (12.5")
Weight (no instrument)	18 kg (40 lbs)
Weight (typical instrument)	22 kg (48 lbs)
Battery Endurance¹	1.0 m/s: ~4 hours 1.5 m/s: >1 hour
Payload (typical)	4.5 kg (10 lbs)
Power	3 @ 24 V, 4.5 AH NiMH Battery Packs
Motor	2 x Brushless DC Thrusters
Hull Material	ABS (Acrylonitrile Butadiene Styrene)
Hardware	Anodized Aluminum, Stainless Steel
R/C Control	Hitec
R/C Control Modes	3: Left Throttle/Right Steer; Right Throttle/Left Steer; Dual Throttle
R/C Antenna	Omni Directional
R/C Range	750 m
R/C RF Scheme	FHSS
R/C Frequency	2.4 GHz
ADCP Size	Up to 16.5 cm (6.5") Diameter
Warranty	One year on all Q-Boat 1250 components.

¹ Speed measured over water; speed over ground will depend on water velocity.