



Q-Boat 1250™

A Portable, Value-Priced Remotely Operated Boat for ADCP Measurements

- Motorised, cost-efficient equipment rack with remote control for various ADCP sensors (StreamPro, RiverPro und RiverRay)
- Collapsible sliding crossbar and lightweight for easy handling and convenient transportation to and from the deployment site
- Modularly expandable with DGPS



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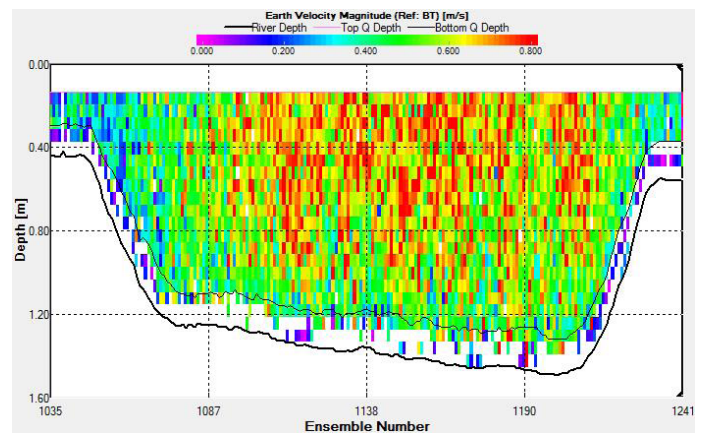
Teledyne Oceanscience Q-Boats® are the number one choice for reliable remotely-controlled acoustic Doppler current profiling in streams, rivers, lakes and coastal waters all over the world. Whether you need to reduce your survey time, keep people safe during difficult conditions, or access hard to reach 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 IP67 rated Q-Boat 1250 has an innovative propulsion system that 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

- Rugged IP 67 rated design
- 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.



Technical Specifications

Parameter:	Description:	
Typical Cruising Speed ¹ :	1-1.5 m/s (3.3-5.0 fps)	
Top Speed ¹ :	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 Endurance ¹ :	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:	Control Modes:	3: Left Throttle/Right Steer; Right Throttle/Left Steer; Dual Throttle
	Antenna:	Omni Directional
	Range:	750 m
	RF Scheme:	FHSS
	Frequency:	2.4 GHz
Compatible ADCPs:	RD Instruments StreamPro, RiverRay and RiverPro ADCPs	
Warranty:	One year	
1) Speed measured over water; speed over ground will depend on water velocity.		
Power Management Module:		
Inputs:	2: GPS & ADCP	
Communications:	Bluetooth: 300 m range	
Battery:	14.4 V, 4.5 Ah	
Endurance:	10-12 hours	

The right is reserved to change or amend the foregoing technical specification without prior notice.

Contact:

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