

# 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.

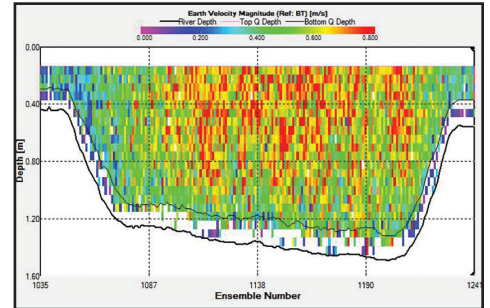
### Robust and Powerful

The 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 provide precise control at speeds below 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 FEATURES

- Rugged IP67 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.



**TELEDYNE MARINE**  
 OCEANSCIENCE  
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## TECHNICAL SPECIFICATIONS

<b>Typical Cruising Speed<sup>1</sup></b>	1-1.5 m/s (3.3-5.0 fps)
<b>Top Speed<sup>1</sup></b>	2.3 m/sec (7.5 ft/sec)
<b>Hull Length</b>	127 cm (50")
<b>Width (extended)</b>	94 cm (37")
<b>Width (transport)</b>	64 cm (25")
<b>Height (no instrument)</b>	32 cm (12.5")
<b>Weight (no instrument)</b>	18 kg (40 lbs)
<b>Weight (typical instrument)</b>	22 kg (48 lbs)
<b>Battery Endurance<sup>1</sup></b>	1.0 m/s: ~4 hours 1.5 m/s: >1 hour
<b>Payload (typical)</b>	4.5 kg (10 lbs)
<b>Power</b>	3 @ 24 V, 4.5 AH NiMH Battery Packs
<b>Motor</b>	2 x Brushless DC Thrusters
<b>Hull Material</b>	ABS (Acrylonitrile Butadiene Styrene)
<b>Hardware</b>	Anodized Aluminum, Stainless Steel
<b>R/C Control</b>	Hitec
<b>R/C Control Modes</b>	3: Left Throttle/Right Steer; Right Throttle/Left Steer; Dual Throttle
<b>R/C Antenna</b>	Omni Directional
<b>R/C Range</b>	750 m
<b>R/C RF Scheme</b>	FHSS
<b>R/C Frequency</b>	2.4 GHz
<b>Compatible ADCPs</b>	RD Instruments StreamPro, RiverRay and RiverPro ADCPs; SonTek M9 ADCP
<b>Warranty</b>	One year

<sup>1</sup> Speed measured over water; speed over ground will depend on water velocity.

POWER MANAGEMENT MODULE	
<b>Inputs</b>	2: GPS & ADCP Optional - Single Beam Echo Sounder in lieu of ADCP
<b>Communications</b>	Bluetooth: 300 m range
<b>Battery</b>	14.4 V, 4.5 Ah
<b>Endurance</b>	10-12 hours