

Teledyne Oceanscience

Z-Boat® 1800-RP

Remotely-Operated Hydrographic Survey Boat

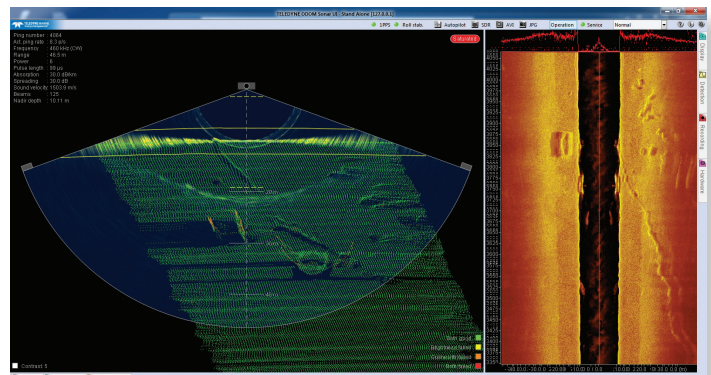


Maximize Hydrographic Survey Efficiency

The Teledyne Oceanscience Z-Boat® 1800-RP with new ruggedized design and interchangeable sensor well, offers an entirely new option for high-resolution shallow-water hydrographic surveying. Get bathymetry data where conventional methods are not feasible or safe, and avoid mobilizing a workboat or vessel of opportunity. The Z-Boat 1800-RP uses advanced radio telemetry to offer remotely-operated hydrographic surveys. All data is accessible in real time, giving the operator total control over the survey process. Z-Boat navigation is easy using the GNSS position and heading available onboard, and remotely viewed at the operator location. Data processing is available in real time through CARIS Onboard™.

The Z-Boat 1800's new ruggedized design is IP67-rated and incorporates an optional modular deck structure for antennas, optional camera, and additional sensor mounting, making this Z-Boat ideal for shallow coastal mapping applications. The ruggedized package also includes an interchangeable sensor well, which accommodates a range of instruments including the Teledyne Odom MB1, MB2, CV100, Teledyne RDI ADCPs, and Tritech Side Scan Sonars. Custom sensor integrations are available. Sensors are easily interchanged from beneath the vehicle.

A drone upgrade with waypoint navigation is available to offer laser-straight survey lines and precise positioning for large area or repeating surveys.



PRODUCT FEATURES

- New ruggedized IP67-rated design with interchangeable sensor well
- Optional autonomous operation and on-board datalogging
- Existing GNSS equipment can be used
- Up to 5m/s (16fps) performance
- Compatible with industry standard acquisition packages
- Customizable payload
- Two person portable; under 150lbs (typical configuration)

Z-Boat 1800-RP

Remotely-Operated Hydrographic Survey Boat

TECHNICAL SPECIFICATIONS

PHYSICAL

Boat length	1.8 m
Boat width	1 m
Boat height	1.1 m
Weight of base boat	38 kg
Payload	30 kg
Hull material	UV-Resistant ABS
Propulsion	Dual brushless 24V DC outdrives

REMOTE

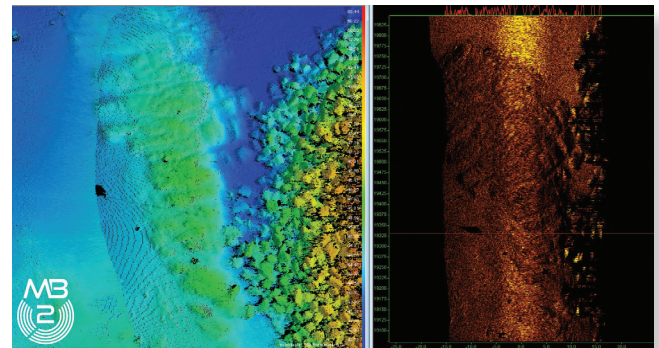
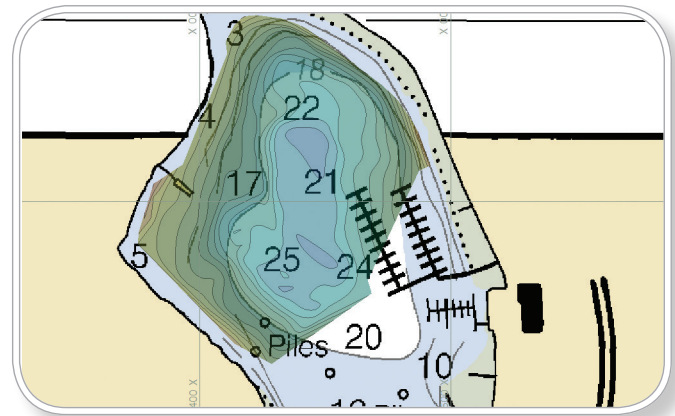
Navigation remote	Hitec with Vessel Telemetry
Navigation remote frequency	2.4GHz FHSS
Navigation remote range	1200 m
Data telemetry range- 5GHz MIMO	Up to 500m
Data telemetry range- 4GLTE	Worldwide

PERFORMANCE

Typical survey speed	3-3.5 knots
Top speed	8-10 knots (4-5 m/s) dependent on configuration
Battery endurance	Up to 4.5 hours
Battery chemistry	NiMH

INSTRUMENTATION OPTIONS

- Teledyne Odom MB2 Multibeam Echosounder
- Teledyne Odom MB1 Multibeam Echosounder
- Teledyne RD Instruments ADCPs
- Tritech Side Scan Sonars
- HD video cameras
- Robotics options available
- Compatible with other sensors on the market
- Custom sensor integration available



caris
ONBOARD

Real-time data processing

Configuration			Outdrives		Weight Balance		
Antenna Structure	Dual Skegs	Dual Skeg mount strips	Kort nozzle	Low-Pro	Bow higher than stern	Bow level w/stern	Top speed (knots)
√	√	√		√	√		5.1
√	√	√	√		√		5.3
√		√	√		√		7.6
√		√	√		√		7.8
√		√	√			√	8.5
		√	√			√	9.1
			√			√	10.1