

# Z-Boat® 1800-RP

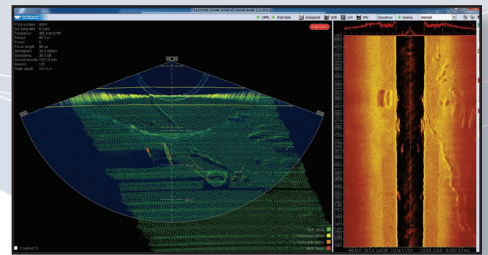
## Remotely-Operated Hydrographic Survey Boat

### 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 areas 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)



**TELEDYNE MARINE**  
OCEANSCIENCE  
Everywhereyoulook™

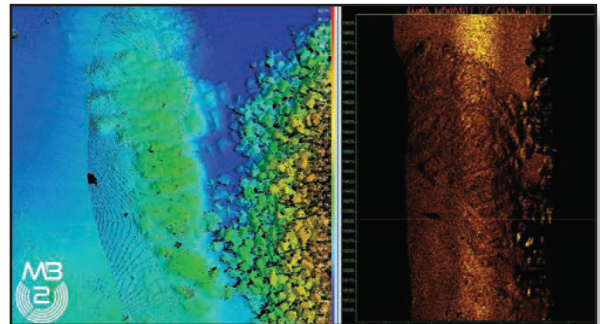
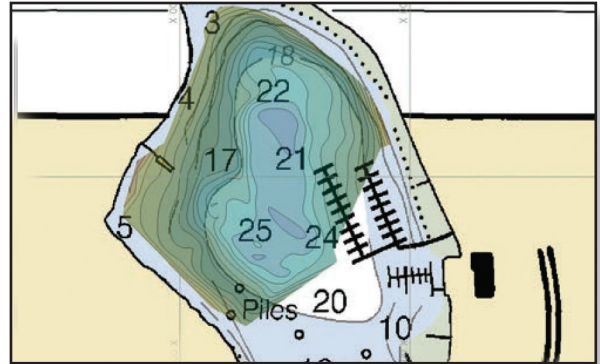
# Z-Boat 1800-RP Remotely-Operated Hydrographic Survey Boat

## TECHNICAL SPECIFICATIONS

|                                 | PHYSICAL  |
|---------------------------------|---|
| Boat Length                     | 1.8 m   |
| Boat Width                      | 1 m   |
| Boat Height                     | 1.1 m   |
| Weight of Base Boat             | 38 kg   |
| Payload Weight                  | 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 500 m                                     |
| 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 Skegs 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              |



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[www.teledynemarine.com](http://www.teledynemarine.com)

49 Edgerton Drive, North Falmouth, MA 02556 USA  
Tel. +1 508-563-1000 • Email: [Oceanscience.Sales@teledyne.com](mailto:Oceanscience.Sales@teledyne.com)

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