Autonomous Survey Solution

Specification Sheet
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D.A.S. Boat can be operated manually using a hand controller, or autonomously follow routes created in its control software “DiveLog”. While in Autonomous mode, data and position information is sent wirelessly to a shore station allowing operators to monitor the vessel’s progress, send updated waypoints and routes or take manual control of the craft. Once the vessel reaches its endpoint it will automatically go into station keeping mode and wait for the operator to enter a new waypoint, route or to take over manual control.

The D.A.S. Boat System can be used on any size unmanned surface vessel. DiveLog can output a standard autopilot data string for use on manned vessels.

Data collected by D.A.S. Boat can be viewed realtime in DiveLog and exported for processing in programs such as Hypack, Caris, and Fledermaus, or for use in Shark Marine’s Sediment Accumulation Monitor (S.A.M.) Software.

**Boat Specifications:**
*(Based on Ocean Science Z-BOAT 1800 platform)*

- **Hull Length:** 180cm (5.9ft)
- **Hull Width:** 90cm (2.9ft)
- **Weight:** 30kg (66lb)
- **Payload:** 20kg (55lb)
- **Survey Speed:** 3-4 kts
- **Max Speed:** 10 kts
- **Battery Endurance:** Up to 240 min
- **Other Platforms Available**

**Control:**

*Manual Operation:*
- Hand Controller.

*DiveLog Automated Controls:*
- Positioning accuracy to 2cm
- Station Keeping
- Goto Waypoint / Target
- Survey Route Following
- +/- .25 m (.8’) Average Cross Track (Pending Environment / Weather)

**Sensor Options:**

- Single Point Sonar,
- Multi-Beam Sonar
- Side-Scan Sonar
- Video Cameras
  And More...

**DiveLog control software also provides Sonar Coverage Mapping and Report Generation**