GeoDAS SDV

Geophysical Data Acquisition System

Image courtesy of Anteon Corporation

Situational Awareness

Navigational Accuracy

Obstacle Avoidance

Integrated Systems

Image courtesy of United States Navy

GeoDAS-SDV, tailor-made for Swimmer Delivery Vehicles and other wet subs, is OIC's custom system for real-time navigation, mapping and obstacle avoidance. GeoDAS-SDV is a configurable hardware and software system, typically comprised of a waterproof GPS, sidescan sonar, forward look sonar, compass, doppler velocity log and an onboard computer running our GeoDAS software. The result is a system that offers real-time interface and control for the integrated sensors to provide a superior working environment for vehicle operators, particularly in low-visibility environments.

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Forward Look Sensors

- Blueview
- Imagenex
- R2Sonic
- Sonavision
- Tritech
- Ultra

Sidescan Systems

- C-Max
- EdgeTech
- Imagenex
- Klein
- SonarBeam

DVL NAV Specifications:

Made by RDI
Workhorse DVL plus compass, depth gauge & battery
Proprietary PD0 output, contains position, speed, course, heading, depth and altitude
Self-powered (6 hours)

GPS Specifications:

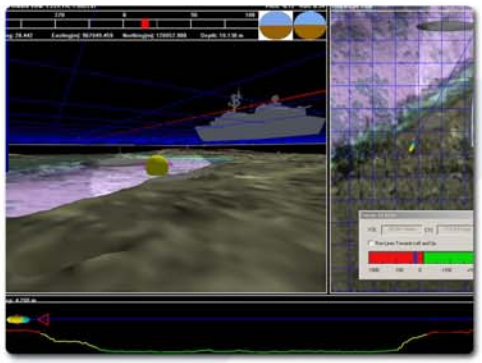
JRC GPS or any NMEA compatible unit
50 cm mast
NMEA out; GGA, VTG, ZDA

Obstacle Avoidance Specifications:

RS-232 / RS-485 interfaces
10 – 500 meter range
Adjustable step size
Controllable Range, Gain, Sector Width & Transmit On/Off
Integrated Attitude, Navigation and Real Time Mosaics

Fully Submersible

OIC's processing and Acquisition Module (PAM) is the powerhouse of the GeoDAS-SDV system. Features inclued: sealed enclosure to 10 atmospheres, SUBCONN wet-mateable connectors, ~6 hours mission duration capability independent of host power and push button interface.

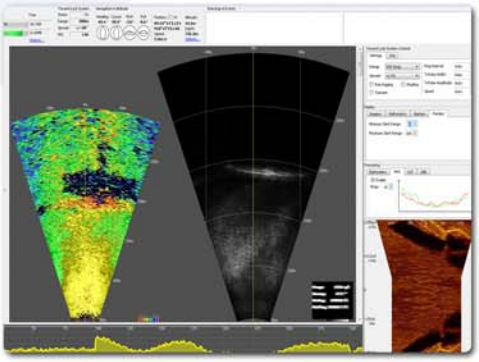


3D Navigation Display

ROVer's Eye renders the sub-sea environment using pre-loaded models and data acquired from on-board sensors in real-time.

Real-time Mosaicking

Building on GeoDAS' existing strengths such as real-time mosaicking, multiple sensor inputs and extensive mission planning and analysis capability, GeoDAS-SDV creates a detailed image of the seafloor from sidescan and forward look sensor data.



Diver Operability

The new GeoDAS interface provides an ideal combination of robust features and ease of use. For the SDV version, all of the features of our standard GeoDAS software have been modified to be easily operated in a push-button environment, free from keyboard and menu requirements.

Oceanic Imaging Consultants, Inc.

Founded in 1993, OIC provides seafloor mapping software, systems and services to the world's military, government, commercial, and acedemic markets. With a solid understanding of the requirements of the hydrographic community and an emphasis on providing quality customer support, OIC should be your first stop for all of your seafloor mapping needs.

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