SONAVISION

World Class Underwater Technology

RoxAnn™ GD-S System

THE "CLASS" IN SEABED CLASSIFICATION

The RoxAnn GD-S Swath is the Acoustic Ground Discrimination System designed to give wider seabed coverage than single beam survey. This decreases ship's time and maps the seabed more quickly and efficiently, thus decreasing survey costs. The RoxAnn GD-S is the latest member of the RoxAnn family of products to use the new GD Digital performance.

A remote sensing hydro acoustic sensor, the RoxAnn GD-S has the ability to classify seabed bottom type by extracting data on bottom roughness and hardness using echoes measured on a transducer.

The system interfaces with a Global Position System (GPS) and a seaboard compute to enable real-time data classification and mapping of seabed geology and associated biological communities using RoxMap Data Collection and Mapping Scientific Software.

Position, time, depth and classification data are logged at regular intervals to a computer file which can be exported to a Geographic Information Systems (GIS) for further spatial analysis.

GIS analysis can be used to determine the benthic habitat boundaries and bathymetry and display differences between successive surveys. Such spatial and time-series analysis is necessary for long-term monitoring and management needs.

Designed for use in small vessels and on vessels of opportunity, the RoxAnn GD-S is housed in a hard case and environmentally protected. Supplied with a dedicated transducer on a stainless steel pole for overside mounting, it is compact and easily transportable.

Tried and trusted with 18 years of use in the field, the RoxAnn System has been used in lakes, inshore coastal waters, riverbeds, reservoirs and inland waterways.

- Fisheries habitat monitoring
- Underwater archaeology
- Sediment and pollution monitoring
- Estuary management
- Seagrass condition monitoring
- Riverbed civil engineering
- Sandbar monitoring

- Portable, easy to install and use
- Real time data processing and display data export to GIS
- Can be used in single beam mode
- Built-in compensator for pitch and roll
- Unambiguous user defined numerical classifications

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Technical Specifications

OPERATING SPECIFICATIONS

Operating frequency	(nominal) 200kHz
Operating depth	2 to 40m
Number of beams	7
Individual beam width	9°
Swath coverage	60° (min)

CABLES / CONNECTORS

9 pin D connector to *GD-S* (5m)
USB to PC to *GD-S* (5m)
Power supply 18 to 36VDC (5m)
Transducer cable (10m)

All cables sealed and splashproof.

POWER SUPPLY

18 - 36VDC

PC COMPATIBILITY

RoxAnn *GD-S*	1 x RS232 serial port or USB serial port
RoxMap software key	1 x USB port or parallel port
GPS	1 x RS232 serial port or USB serial port
RoxMap installation	1 x CD-ROM

SYSTEMS AVAILABLE

RoxAnn *GD* Fishing
RoxAnn *GD-A*
RoxAnn *GD-S* Swath
RoxAnn *GD-X* GroundMaster
RoxAnn *GD-Z* Stereo

ROXMAP SCIENTIFIC SOFTWARE FUNCTIONS

Depth scroll
After dark screen
Vessel position
Waypoints
Route planning
Insert text
Hazard symbols
Seabed description
Select tracks for export
RoxAnn Square editing
Background electronic charts
Export ship and cursor position
Chart symbol information
Colour by RoxAnn/depth
Distance measurement
Multiple databases
Date/time logging
Instant query
Material type
Import text file
Chart layers
Track replay
Track edit
Lat/long grid
Export to GIS for display and print 2 and 3D maps
Macros for producing images in Surfer

Due to continual product development, specifications are subject to change. Please contact Sonavision for latest specifications.

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