SONAVISION

World Class Underwater Technology

RoxAnn™ GD-Z System

THE "CLASS" IN SEABED CLASSIFICATION

RoxAnn GD-Z Stereo System is an Acoustic Ground Discrimination System for seabed survey, adding a further dimension to RoxAnn's proven ability to classify the seabed bottom type by extracting data of bottom roughness and hardness using echoes measured on a standard transducer.

It is designed to be permanently installed onboard a vessel and is supplied in a small wall or panel mountable box. The system interfaces with a Global Position System (GPS) to provide locations of acoustic signals and a shipboard computer to enable real-time data classification and mapping of the seabed geology and associated biological communities using the RoxMap Stereo Data Collection and Mapping Scientific Software.

Available for operation from 24kHz to 210kHz echosounder frequencies, RoxAnn GD-Z System is supplied interfaced with two separate echosounder frequencies simultaneously on a dual frequency echosounder.

Position, time, depth, and classification data are logged at regular intervals to a computer file, which can be exported to a Geographic Information System (GIS) for further spatial analysis. GIS analysis can be used to determine the benthic habitat boundaries and bathymetry, displaying differences between successive surveys.

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

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

- Easy to install and use
- Real time data
- Processing and display data export to GIS
- Can be configured to operate at up to 4 frequencies
- Unambiguous user defined numerical classifications

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RoxAnn *GD-2* System

Technical Specifications

WALL OR PANEL MOUNTING BOX

Length	250mm
Width	120mm
Height	102mm
Weight	900g

ECHOSOUNDER COMPATIBILITY

Frequency	24kHz to 210kHz
Power output	Up to 10kW
Depth capability	From 1m to maximum operating depth of high frequency echosounder - typically 50 to 80m *(depending on host echosounder)*
Makes and models	Odom, Simrad, Knudsen, Marimatech, Atlas, Navitronic, Innerspace, Odec and many others

CONNECTIONS

2 x RS232	9 pin D connector
2 x USB	USB to PC

2 x 5 VDC jack connector power supply
2 x Transducer 3 pin XLR mating connector

CABLES / CONNECTORS

2 x 9 pin D connector to 9 pin D connector (2m)
2 x USB to PC
2 x Power supply 80 to 260VAC, 5VDC output
2 x XLR 3 pin mating plug

POWER SUPPLY

2 x 5VDC - 400mA
or
2 x AC adaptor supplied (80VAC to 260VDC)
or
2 x USB cable supplied from PC

PC COMPATIBILITY

RoxAnn *GD-2*	2 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

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

SYSTEMS AVAILABLE

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

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

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