



WORLD CLASS UNDERWATER TECHNOLOGY

RoxAnn GD-A System is a new Acoustic Ground Discrimination System for the hydrographic industry.

It has the ability to classify the seabed bottom type by extracting data of bottom roughness and hardness using echoes measured on a standard transducer.

Designed to be permanently installed onboard a survey vessel, the **RoxAnn GD-A System** 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 Data Collection and Mapping Scientific Software.

It is available for operation from 24kHz to 210kHz echosounder frequencies.

The **RoxAnn GD-A System** can also be supplied to interface with up to four separate echosounder frequencies with software controlled switching between operating frequencies.

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, and display differences between successive surveys. Such spatial and time series analysis is necessary for long-term monitoring and management needs.

Tried and tested with over 16 years use in the field, the RoxAnn System has been used in continental shelf and inshore coastal waters, lakes, riverbeds, reservoirs, inland waterways.

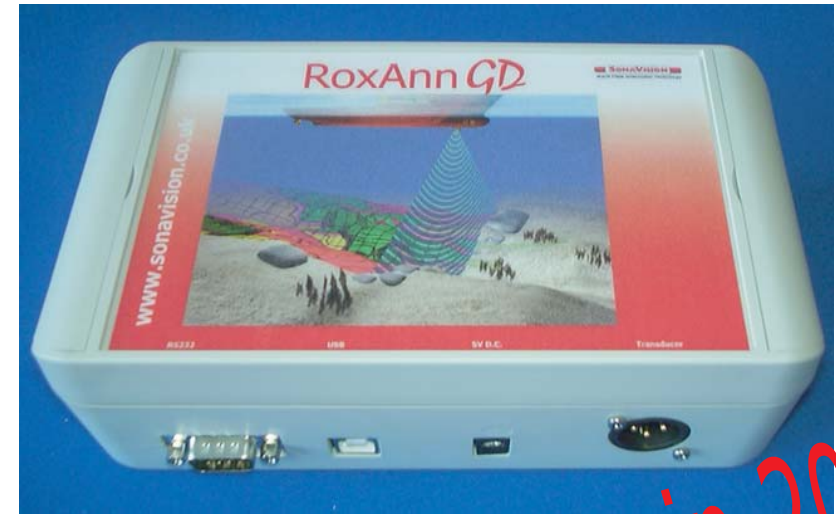
Typical applications are mapping for navigation and anchor handling, classification of mussel, oyster and clam beds, monitoring posidonia and laminara sea grasses, and delineating areas affected by pollution. sewage outfalls, drill cuttings or dredge dumping.

RoxAnn is a Registered Trademark of Sonavision Ltd.

Sonavision Ltd., 16 Denmore Industrial Estate, Bridge of Don, Aberdeen, AB23 8JW, Scotland, UK.
Tel +44 1224 707737 Fax +44 1224 827290 Web www.sonavision.co.uk E-mail info@sonavision.co.uk

RoxAnn™ GD-A

THE "CLASS" IN SEABED CLASSIFICATION



New in 2006

FEATURES

- **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**

APPLICATIONS

- **Fisheries Habitat Monitoring**
- **Underwater Archaeology**
- **Sediment and Pollution Monitoring**
- **Estuary Management**
- **Seagrass Condition Monitoring**
- **Riverbed Civil Engineering**
- **Sandbar Monitoring**

RoxAnn *GD-A* Technical Specifications

Physical

Wall or panel mounting box	
Length	200mm
Width	110mm
Height	60mm
Weight	600g
Mounting Holes	186 x 76mm

Connections

RS232	9 pin D connector
USB	USB to PC
5 VDC jack connector power supply	
Transducer 3 pin XLR mating connector	

Power Supply

5VDC - 400mA

or

AC Adaptor supplied (80VAC to 260VDC)

or

USB cable supplied from PC

Cables / Connectors

9 pin D connector to 9 pin D connector (2 metres)

USB to PC

Power supply 80 to 260VAC, 5VDC output

XLR 3 pin mating plug

PC Compatibility

RoxAnn <i>GD-A</i>	1 x RS232 serial port or USB port
RoxMap Software Key	1 x USB port or parallel port
GPS	1 x RS232 serial port or USB port
RoxMap Installation	1 x CD-ROM

Echosounder Compatibility

Frequency	24kHz to 210kHz
Power Output	up to 10kW
Depth Capability	from 1m to 2000m (depending on host echosounder)
Makes and models	Odom, Simrad, Knudsen, Marimatech, Atlas, Navitronic, Innerspace, Odec and many others

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
Real time 3D modelling
Display 2D and 3D maps
Print 2D and 3D maps
Multiple databases
Date/time logging
Instant query
Material type
Import text file
Chart layers
Lat/long grid
Export to GIS
Track replay
Track edit

Other RoxAnn Systems Available

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

Sonavision operate a policy of continual product development. As a result, changes to specifications can occur.

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