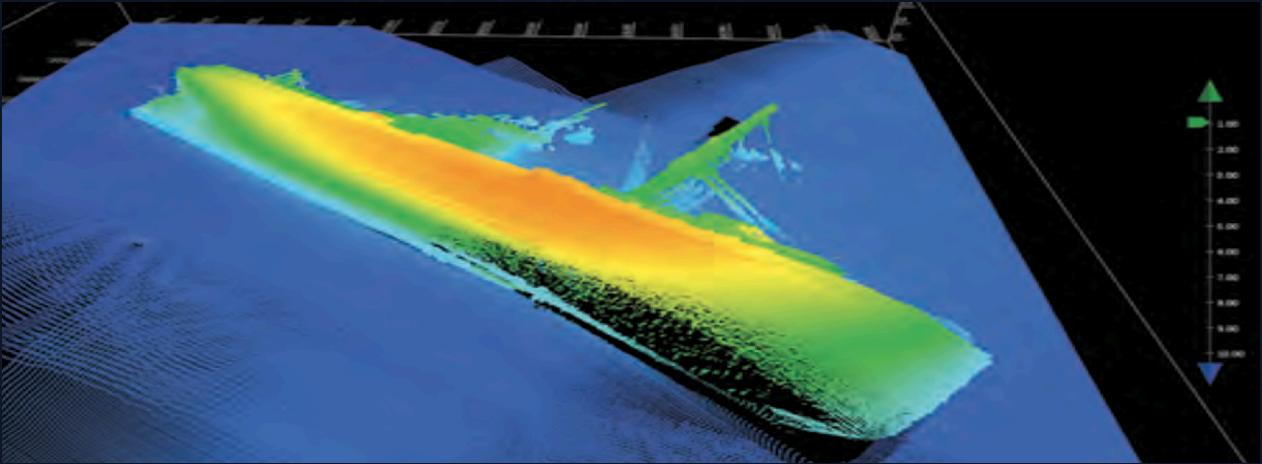# BATHYMETRY

Data Processing

SonarWiz Bathymetry provides a complete toolkit for:

- Calibration, editing, and QA/QC
- Post-processed navigation and attitude injection (ideal for AUVs)
- Six gridding algorithms for flexible surface generation
- Volumetric and difference analysis for sediment estimation and change detection
- Cross-check reporting and vector contouring for terrain modeling

Export raw and processed data to over 20 GIS and CAD formats for seamless integration.

Image Processing & Targeting

- Analyze bathymetry and acoustic backscatter simultaneously
- Perform advanced 3D editing and target cataloging
- Switch between bathymetry and backscatter views in real time
- Use statistical normalization for habitat classification and mosaic generation—without compromising resolution

Visualization

- Integrate bathymetry and backscatter with sidescan, sub-bottom, and magnetometer data
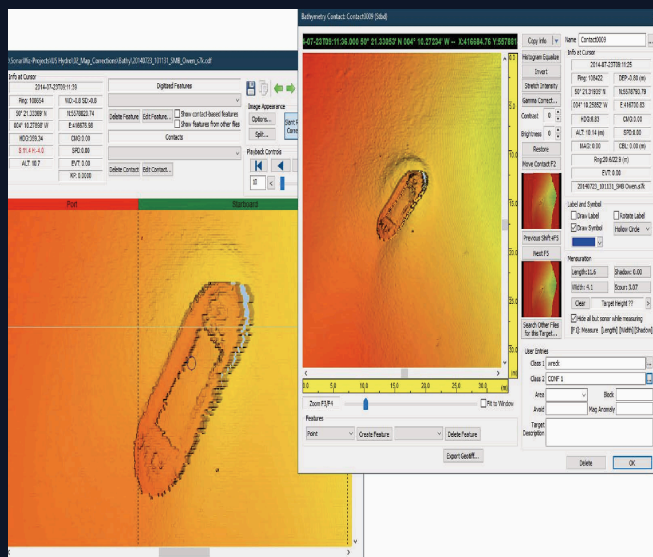- Create interactive 3D visualizations for detailed interpretation and presentation

Licensing & Compatibility

Purchase module as part of bundles offered on **www.chesapeaketech.com**

Supported Interfaces

SonarWiz supports a wide range of bathymetric and multibeam sonar systems, including:

- EdgeTech: 4600, 6205
- PingDSP: 3DSS
- R2Sonic: 202X series
- GeoAcoustics: GeoSwath
- Klein: 5900
- Marine Electronics: Dolphin SeaView
- Mesotech: M3
- NORBIT: iWBMS
- Teledyne Reson: SeaBat series
- Velodyne: VLP-16, VLP-32

Supported File Formats

Compatible with: 83P, ALL, D1P, FBT, FLS, GSF, HS2x, HSX, JSF, KMALL, NWSF, RDF, RFF, S7K, SDF, SL3, SXI, SXP, TIL, WMBF, XSE, XTF

System Requirements

64-bit Windows and/ or DirectX 11+, 8GB RAM, SSD