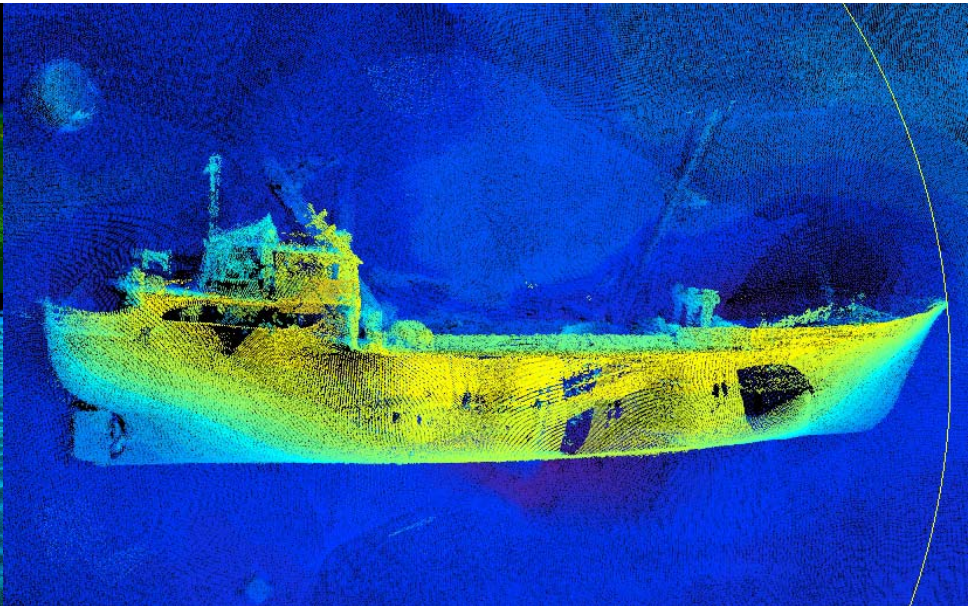
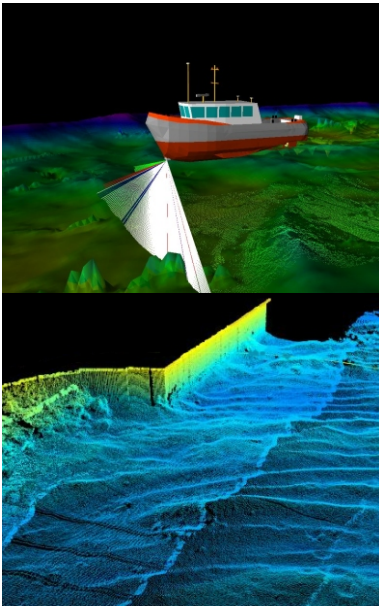


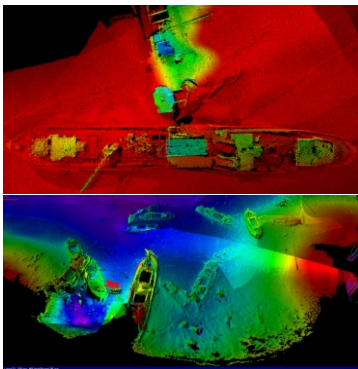


PDS2000 Multibeam Application



PDS2000-Multibeam

- **RESON products for accurate and efficient surveying**
- **High quality - fast results**
- **Full support for Multibeam surveys**
- **Support of SSS and Snippet data**
- **Real-time 3D visualisation**
- **3D area editor with CUBE processing tools**
- **Volume calculation module**
- **Powerful charting module**



RESON is one of the world leaders in singlebeam and multibeam echosounders, dredge guidance systems and hydrographic software.

RESON's in-house developed PDS2000 Multibeam is designed to efficiently create high quality, fast results - whether it is for multibeam surveys, singlebeam surveys, construction or dredging works.

PDS2000 for Multibeam Surveys provides the functionality for survey planning, data acquisition, data processing, editing, volume calculations and chart production. This turnkey solution offers the surveyor and helmsman a strong tool to carry out the Multibeam survey efficiently. Progress is shown realtime in 3D views and topviews using a color-coded Digital Terrain Model. Various filter settings can be applied to the Multibeam data online, thus providing real time data processing. QC displays reassure the operators that the data is of the desired quality. The 3D editing modules, combined with CUBE modeling, offers operators the right tools for both small and large datasets. They provide the high quality and fast results as requested today.

After data processing grid models can be generated and your data is available for volume calculations, charting, processing and export. The chart model offers the operator quick plot results specially when repeated surveys are to be plotted. The plot module has proven to be one of the best available on the market!

Optionally data can be exported to a GIS database for more efficient data management.

RESON has proven that PDS2000-Multibeam is an aid to cope with any of your projects.



PDS2000 Multibeam Application

PDS2000 MULTIBEAM

- Complete software suite for acquisition, processing and charting
- The tool for efficient and accurate results
- Capable to handle large data sets
- Multibeam calibration with Patch test
- 3D area editor
- CUBE modeling and 3D processing tools, optional
- Strong integration with Seabat 7K series
- Easy to extent to other PDS2000 applications

INTERFACING

- Positioning systems, Compass - Motion sensors
- PPS interfacing
- SSS and snippets data from SeaBat systems
- Sound velocity probe
- Singlebeam echosounders
- Tidal information
- Configurable output

PLANNING

- Routes, Track guidance lines, Waypoints
- Multiple DXF charts can be read simultaneously
- Digital Terrain models
- 3D design TIN models
- 3D design models creation from polygons and 3D-DXF files
- Use another DTM as design
- User defined Charts

SURVEY OPERATION

- Acquisition, time stamping and logging of all sensors in a single file
- Navigation charts: DXF files, C-MAP, Geotiff, User defines Charts
- Shows DTM colour-coded for depths and differences with design or previous survey.
- Profile displays show Multibeam data
- 2D and 3D Planview with progress of survey
- TPE error view
- Display for SSS and Snippet data
- Status views of equipment, logging and alarms
- Multibeam data online flagged for Filter settings

PROCESSING

- Data ready to process directly after data acquisition
- CUBE data processing combined with interactive 3D area editing.
 - CUBE model created using the statistical information of the multibeam data
 - CUBE model editor
 - Filtering of swath data using the CUBE model as reference
 - Viewbox for closer inspection/detailed editing.
- All editors have a multiple UNDO/REDO function
- Position editor shows position with navigation chart in background
- Tidal data editor
- All editors show the validated data and/or the original data
- SSS and Snippet views
- All editors in one screen layout: Synchronised processing
- DTM data shows the following items color coded: depths, minimum, maximum, standard deviations and hits per cell
- Integrated multibeam calibration module

CHARTING

- Powerful tool for generating charts
- Multiple planviews / Multiple profiles possible
- Depth contouring
- Text, descriptions and images
- Plot profiles
- Quickplot of profiles and charts for instant plotting using predefined plot templates, facility to import XYZ data

VOLUME COMPUTATION

- Compute volumes and generate reports
- Volumes computed from DTM gridmodel
- Design model can be:
 - Profile design
 - 3D TIN model from 3D dxf format
 - Digital Terrain Model

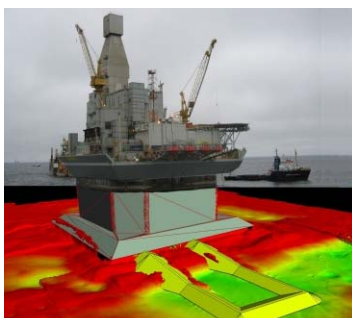
EXPORT

- Export MB data to various formats (CSV, Excel, XYZ, ESRI grid)
- MB data export to XTF, CARIS and Neptune

OPTIONS for PDS2000 Multibeam

- USBL Tracking option
- ROV option including USBL and Doppler log

**RESON One supplier for your
project solution**



PDS2000 Multibeam Leaflet 2.0



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