Teledyne PDS

Singlebeam Survey and Processing/Charting

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

Teledyne RESON's in-house developed Teledyne PDS Singlebeam is designed to efficiently create high quality, fast results - whether singlebeam surveys, construction or dredging works.

Teledyne PDS for Singlebeam 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 survey efficiently. Progress is shown realtime in 2D and 3D views using a color-coded Digital Terrain Model. QC displays reassure the operators that the data is of the desired quality. The Linebased editing modules offers operators the right tools for data editing and cleaning.

After data processing grid models can be generated, interpolations can be done 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!
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Teledyne RESON has proven that Teledyne PDS-Singlebeam is an aid to cope with any of your projects.

FEATURES

- Complete software suite for acquisition, processing and charting
- The tool for efficient and accurate results
- Capable to handle large data sets
- Innovative singlebeam interpolation for gridmodels
- Also for Magnetometer data

- Volume computations from sailed lines or gridmodel
- SVP profile can be applied
- Fast creation of charts
- Easy to extend to other PDS applications

TELEDYNE PDS
Everywhere**you**look™

Teledyne PDS

GENERAL

- Complete software suite for acquisition, processing and charting
- Easy to adapt to your project
- Smooth integration with existing Teledyne PDS applications
- Wizard guides you through the different setups
- Easy configuration of the equipment
- Overview of your equipment
- Import of DXF file for Vessel shape
- Create track guidance lines, waypoints and routes

INTERFACING

- Positioning systems
- Singlebeam echosounders
- Compass
- Motion sensor
- Tide
- Eventing to echosounder
- Output of data
- Magnetometer
- Acquisition, logging of all sensors in a single file

DATA ACQUISITION

- Selection of 4 different layouts
- DXF files, S57 import, C-MAP, Geo tiff AIS layer
- Shows multiple charts
- Shows DTM with corrected depths in colourcoded cells.
- Planview with progress of survey
- Status views of equipment, logging and alarms
- Online correction for:
- Heave, Roll and Pitch of vessel
  - Offsets
  - RTK height and tide

PROCESSING

- Position editor shows position with DXF, Geotiff, S57, C-map and gridmodel in background
- Linebased editor shows data relative to sailed line
- Tidal data editor
- All editors show the original position together with edited and removed data
- All editors have the following functions:
  - Delete/Undelete
  - Move / Smooth
  - Interpolate / Find spikes
  - UNDO / REDO function
- Tide is applied, reapplied and removed without replay of the data
- New models are generated direct and fast from the data file
- Direct generation of 3D model from DTM
- Filter DTM data, view depths, standard deviations and hits per cell, interpolate functions

CHARTING

- Generation of your chart using predefined and user adjusted templates
- Multiple planviews Multiple profiles
- Depths Contours Text images
- Fast generation and printing of charts

VOLUME COMPUTATION

- Compute volumes and generate reports
- Volumes computed from DTM gridmodel
- End-Area volume calculation
- Volumes direct from datafiles using wizard
- Design model can be:
  - Profile design
  - DTM model
- Export data in to XYZ and Excel
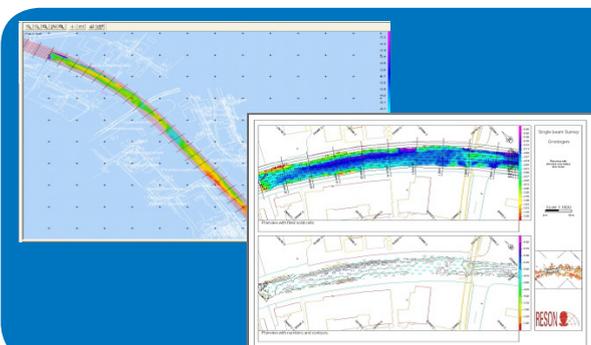
Why choose Teledyne PDS Singlebeam?

- Reliable hydrographic software for shallow and deep water applications
- The tool for efficient surveying, processing and charting
- Teledyne PDS flexible software, tuned for standard and special projects

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