PDS Singlebeam

a Teledyne PDS Application

Teledyne PDS Singlebeam application a package developed specifically to plan, support and optimize Singlebeam echosounder surveys from ping-to-chart™.

Fully compatible with Teledyne ODOM SBES systems and 3rd party alike. Also capable of displaying depth information from Teledyne RDI's ADCPs and DVLs, PDS is the trusted tool for professional surveyors the world over and is widely used in ports, harbours, and waterways to generate reliable data for day to day safety of navigation and to provide critical information.

At each stage in the process from project preparation through execution and on to final plotting, PDS Singlebeam contains all the tools you need to get the job done.

Teledyne Odom E20 support

PDS Singlebeam supports the Teledyne Odom E20 singlebeam echosounder range. PDS simplifies operations as the E20 echogram and digitized depth data are shown in real-time in one of the PDS views, means that the need to have the E20 user interface on screen continuously is not required. This echogram data and digital data are both logged during data acquisition and available during data processing. Positioning sensors and gyro's can also be interfaced thanks to a comprehensive library containing a broad range of standard data formats.

PDS USV support

When run-lines are used to collect the data, PDS can assist to ensure your vessel remains on the run-line by sending NMEA format data to Autopilots keeping the vessel on course. At the end of a run-line PDS will stop logging and steering the Autopilot to the next line before logging resumes. Similarly when used on USVs, such as the Teledyne Marine Z-Boat PDS can be used to prepare the survey and upload the ine plan to the USV's mission planning module. During the planning stage different vessel speeds can be set between waypoints and at the end of the line an arrival radius can be set to sail to the next line. These features are also available in the PDS Multibeam application.
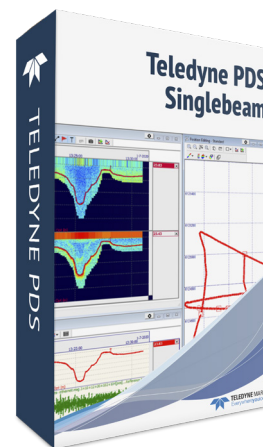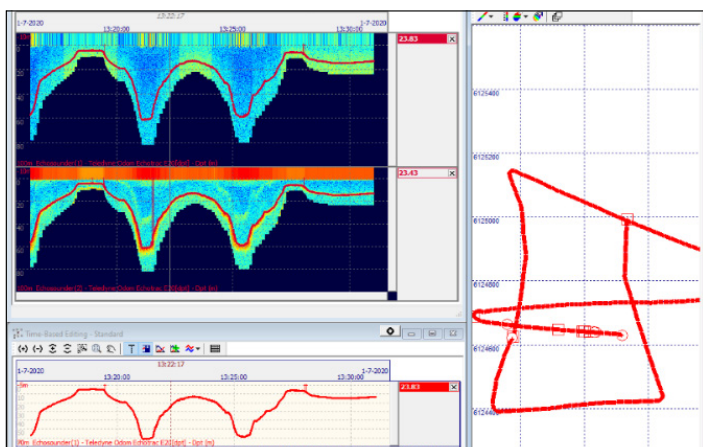
PDS Singlebeam processing

A single file structure ensures all raw data is collected and accessible, whether during acquisition or data processing. While PDS Singlebeam takes the strain out of processing thanks to its automated filters, all filtered data is flagged such that you can quickly review the processed data, make changes where necessary or even undo processing steps keeping you fully in control of your data. As all data is synchronized, PDS allows you to view the different sensor data in a timeseries such that any offsets errors or time delays can be readily identified and corrected in order to deliver accurate data. During data processing all information that was recorded online is available for review and can then be used to optimize the survey in post-processing. Positional error can be filtered and edited using the position editor.

Non Singlebeam Sensors supported

PDS Singlebeam supports magnetometer data as standard.. and is upgradeable to other applications such as Side Scan Sonar or Multibeam type applications when the need arises.
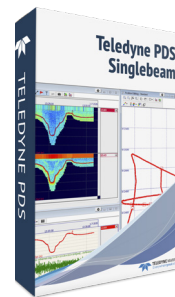
PRODUCT BENEFITS

- Hard- and software from single supplier
- Flexible system tailored to your application
- Ready to be used on USV's
- Easy to upgrade to other PDS applications

TELEDYNE MARINE
PDS
Everywhere**you**look™

TELEDYNE MARINE

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PDS SINGLEBEAM SPECIFICATIONS

Teledyne PDS	Singlbeam Acquisition- Processing Charting	Singlbeam Acquisition	Singlbeam Processing Charting
Project management	√	√	√
User accounts + User access levels	√	√	√
Multiple (remote) Presentations	√	√	√
Track guidance editor	√	√	√
GeoCalculator	√	√	√
Sensor interfacing + test	√	√	-
Data acquisition echosounder	√	√	-
E20 control and graphics	√	√	√
Data acquisition SSS, play back	o	o	o
Video camera recording	√	√	-
Tide gauges	√	√	√
Magnetometer	√	√	√
Autopilot Output	√	√	-
USBL + USBL calibration	o	o	o
Multivessel / ROV	o	o	o
C-map electronic chart, S-57 data,	√	√	√
Webmap service	√	√	√
Real-Time 3D View	√	√	√
Timebased editor, Linebased editor	√	-	√
Position editor, Tidal editor	√	-	√
DTM editor	√	-	√
Volume computation with reporting	√	-	√
Export utility of data	√	-	√
Plotmodule	√	-	√
Quick profile plot	√	-	√
Batch Plot	√	-	√
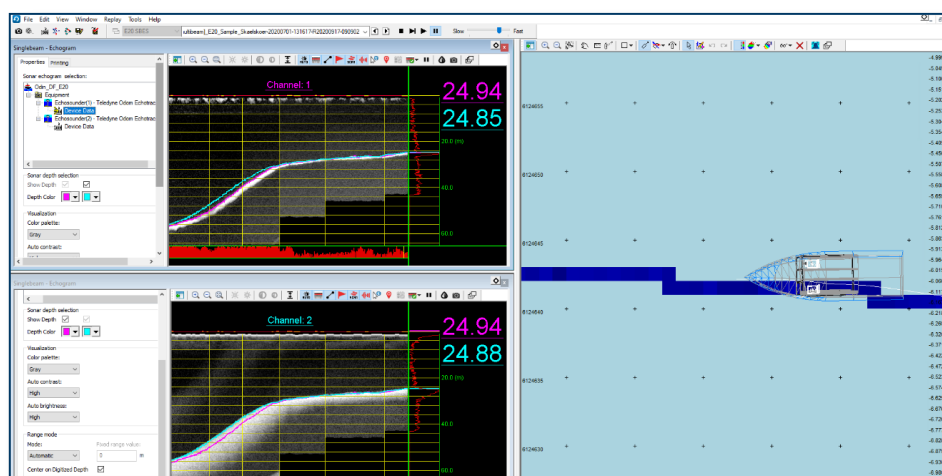
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