# NaviEdit

## Survey Data Editing Software

**APPLICATIONS** – The NaviEdit survey data editing software is designed specifically for editing of marine survey data from singlebeam and multibeam echosounders, scanning sonars, pipe-trackers as well as all survey related secondary sensors like GPS, Gyro, Doppler Log, RPH sensor, etc.

**JOBPLANNER** – Manages import, interpretation and export of survey data. The JobPlanner allows all editing routines to be applied to one or more blocks of survey data.
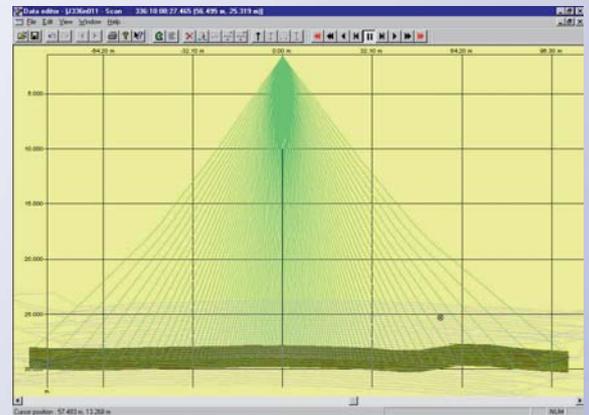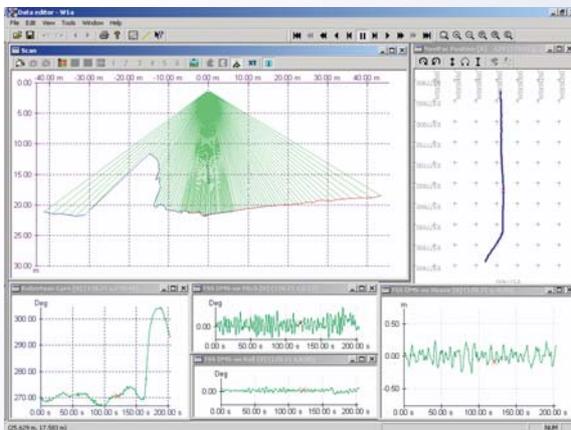
**IMPORT AND INTERPRETATION** – Raw survey data are imported and interpreted to proprietary format from a/o multibeam files, singlebeam files, ASCII files, tide files, sound velocity files, run-lines, XYZ files and multibeam manufacturers proprietary format. NaviEdit provides facilities for managing the SQL database, allowing several NaviEdit users to access the same SQL database simultaneously.

**HEADER DATA EDITOR** – Allows change of overall survey parameters to correct erroneous data during import and interpretation. It also allows for update of calibration values, appliance of time delay, C-O and sensor offset as well as appliance of datum shift using pre- or user-defined parameters.

**SURVEY DATA EDITOR** – Provides graphical tools for editing of all available survey sensor data. Editing tools comprise a/o automatic de-spiking, advanced spline filters, user-defined tolerance windows and advanced zoom and region marking by use of tool bar and mouse.

**EXPORT** – NaviEdit allows for export of edited survey data for presentation using NaviModel and NaviChart software for modelling and charting, respectively. Alternatively, NaviEdit provides export formats for 3rd party software.
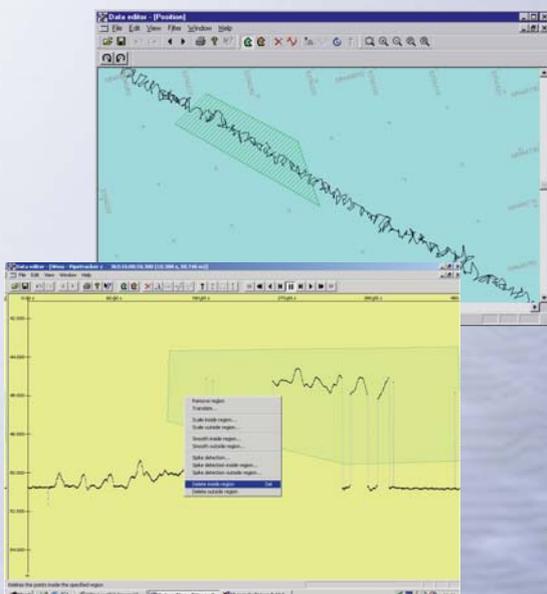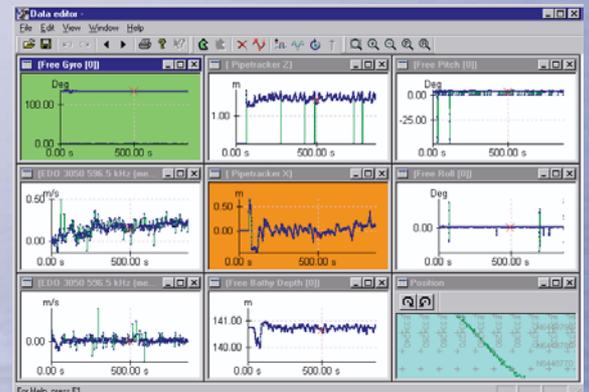
**OPTION** – Features include processing of survey data to generate data pertaining to pipeline inspection. A pipeline filter provides adjustment of track based on pipe-tracker data and data from previous survey. Automatic reporting facilities allow for extraction and export of 5-point files during pipeline inspection surveys.

**NAVIEDIT LITE** – provides an affordable entry-level software package for editing of survey data pertaining to single-beam surveys. An update to a full version of the NaviEdit software can be made at any time.

PRODUCT SUITE – The EIVA software product suite comprises software for all aspects of marine surveying, from integrated navigation and data acquisition to post-processing and final charting. Full continuity is provided between the individual software packages. Through a flexible interface the individual software packages also allow for use with 3rd party software. The EIVA software product suite is written for Microsoft Windows NT, Windows 2000 and Windows XP and the user interface adheres to The Microsoft Interface Guidelines. All EIVA software products are made according to ISO9001 principles for system design.
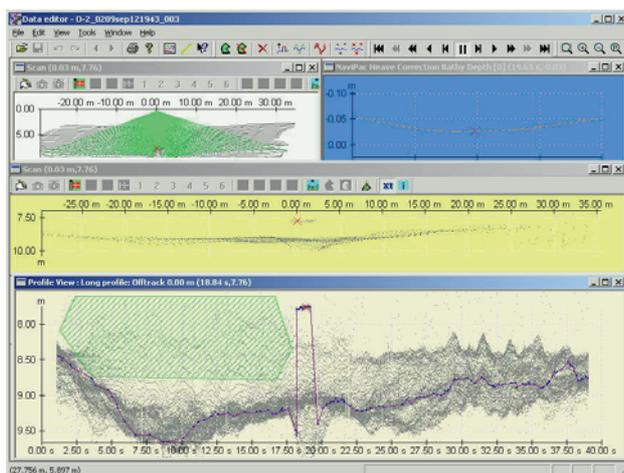


## Technical Specifications

### Hardware (recommended)
- Pentium processor

### Operating System
- Windows NT, Windows 2000 or Windows XP
- MS SQL 2000

### Displays
- Screen text, font size, graphics, colours and windows layout fully configurable
- Fully user designable screen layout
- Storage of operator preferred screen layout and settings

### Header data editor
- Change of parameters to correct erroneous input during data interpretation
- Update of calibration values
- Datum shift using pre- or user-defined parameters
- Appliance of time delay, C-O and offset on any sensor

### Data correction tools
- Creation and editing of tide table
- Creation of new tide table for a specific location from multiple tables
- Conversion of tide table for plotting
- Correction of data using one or multiple tide tables
- Graphical display of tide table
- Appliance of multiple sound velocity profiles

### Sensor data editor
- Graphical editing of any sensor data type (singlebeam, pipe-tracker, bathy, tide, gyro, roll, pitch and heave, Doppler, sound velocity etc.)
- Generic view in the data editor allows editing of own imported data
- User-interactive functions comprise a/o zoom, undo, data-overlay etc.
- Provision for user specified settings of colours, Windows connections, auto zoom, auto scale, previous zoom etc.
- Editing of data from multiple or redundant secondary sensors allows for selected substitution of sensor data in case of noise or dropouts in sensor data

### Scan editor
- Flexible presentation of data
- Visualization of impact of motion correction
- Auto-play feature to simulate survey
- Automatic de-spiking of data based on spline filter and tolerance window
- Smooth scans
- Visualization of applied sound velocity profile

### XY data editing of plane data
- Navigation track and lines/curves can be edited through use of accelerator keys and mouse buttons
- Parts of or whole blocks of data can be deleted, translated, interpolated or smoothed

### Export formats supported
- Export to original multibeam echosounder format (as defined by the manufacturer)
- Binary XYZ
  – NaviEdit depth files (*.ned)
  – FAU files (*.fau)
  – IRAP files (*.irap)
  – MBES (*.mbes)
- Ascii XYZ
  – Standard XYZ (*.xyz)
  – Standard XYZ + Angle and Quality (*.xyz)
  – DGI format (*.dgi)
  – IRAP format (*.irap)
  – PiSYS format (*.tpds)
  – NaviPac run-line (*.rln)
  – Pipeline data (*.nep)
- User-defined XYZ
- UKOOA (P1, P5/94)
- RIS (Pipeline data)
- SITRAS (Pipeline data)
- Filtered track to Triton-Elics
- PiSYS
- CODA

### Utilities
- Recalculation of tide
- Creation of multiple tide tables
- Restoring of sensor data
- Multiple SVP/CTD tables