

Ilex Computing Ltd.



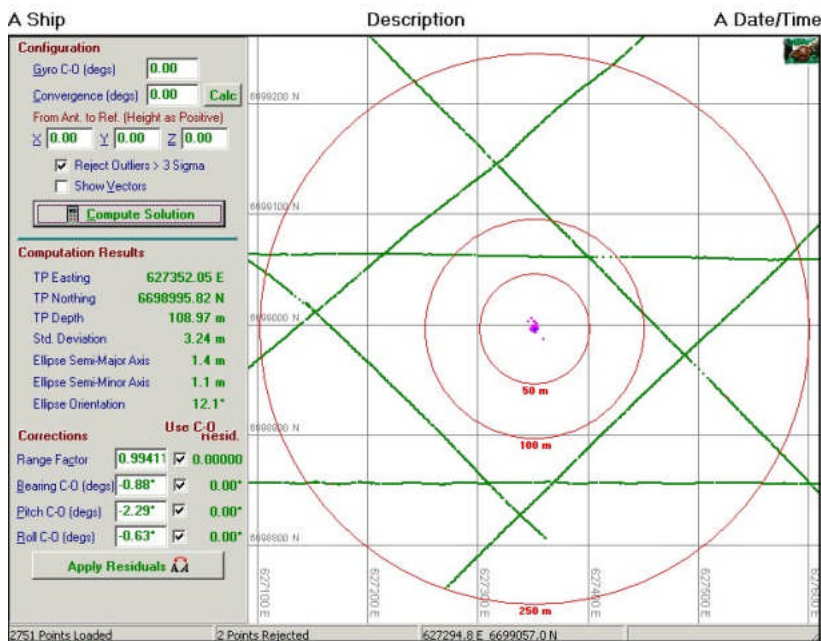
Marine Survey and Construction Software

About Ilex Computing ...

Ilex Computing Ltd. is an established software company providing software development primarily for the offshore survey, exploration and construction industry. The company provides bespoke development services for PC based systems, whether they are networked or stand-alone systems. We assist the client in all phases of the development cycle of a product, from initial concept through development to delivery, installation and training. Rapid response are key words in the Offshore Exploration Industry and Ilex carries this through to industry in general and tries to provide solutions ON-TIME and IN-BUDGET plus lifetime support of a product.

SSBL Calibration ...

This package has been written to fulfil the growing requirement for systems suppliers and smaller survey contractors to install and calibrate an SSBL/USBL system.



SSBLCal will interface to GPS systems directly and provide a simple online screen display with automatic display of cardinal point, triangular or "figure-of-eight" guide templates. These templates can be rotated to suit wind and current directions for best station keeping of the vessel. No geodetic information (i.e. Spheroid, Projection and Datum Shift), are required as the software automatically selects a valid UTM zone and works in WGS 84. If ED 50 or other datum is required the solution can easily be converted using an offline package (see our QC Calc program).

If data has been acquired using a third party survey package or GeoNav Surveyor, it can be imported using a powerful import routine then processed in the same way as data collected by the program itself.

The screen shown here is a sample of the Processing display. The reference position is plotted in green and the data from the transponder is plotted in purple. In this example the vessel steamed past the seabed transponder in several different directions as it had no DP.

The program will interface to most DGPS systems using the standard NMEA messages (GGA, GLL, GGK, MOD, and RMC messages), Robertson, SG Brown and NMEA heading systems plus most Simrad HPR systems. New drivers will be added as different systems come on the market and updates will be available through our web site (shown on header).

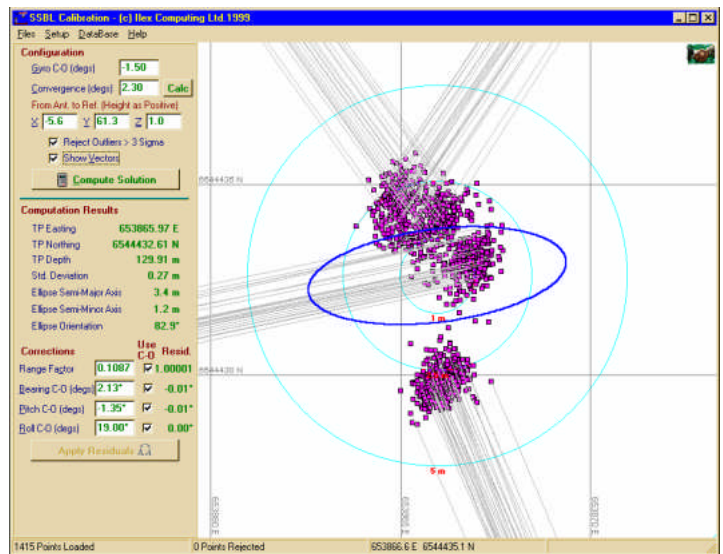
Multiple transponders can be logged simultaneously and stored in separate files, each file being time and date stamped. These files can be viewed or processed separately or merged to complete a processing set.

Once the data has been acquired/imported the data is processed using a least-squares solution, this determines the position of the transponder from all data then proceeds to itemise the Pitch, Roll, Velocity Factor and Bearing Errors.

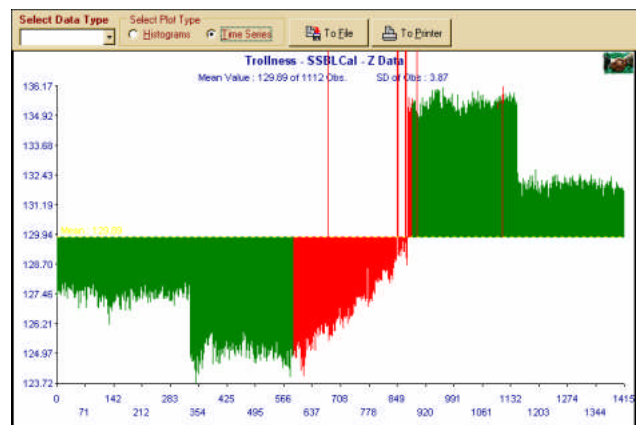
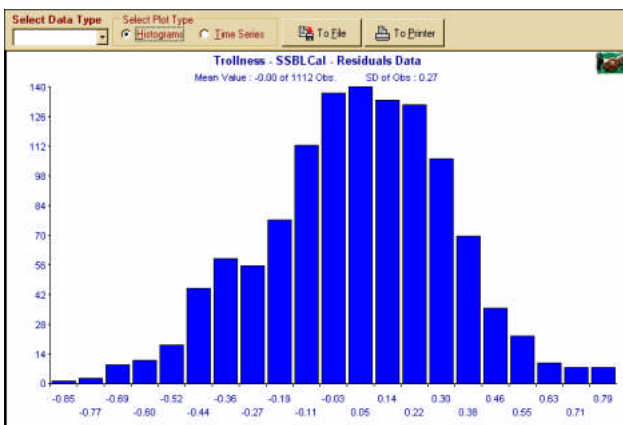
The screen here is a zoom into the central area providing more detail of the solution. The grey lines are vectors indicating the vessel location when the data item was logged, this aids greatly in determining the types of errors inherent in the SSBL system.

The data panel at the left of the chart quantifies the errors and residuals from the computation and allows individual corrections to be applied and a re-computation to be performed to confirm the values prior to entering them into your system.

A Status bar at the bottom provides information on numbers of data accepted/rejected plus mouse co-ordinates and on-screen measurements made using the mouse.



Once computed the data can be listed or the statistics routines incorporated can provide a graphical view of each element of the data set. The data graphs can be viewed as either Time-Series or as a Histogram (sample screens shown here).



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