GNSS Post-Processing Programme Carlson Software

For surveyors and positioning professionals looking to achieve centimetre accuracy when working on the edge of their RTK infrastructure, perform sub-centimetre positioning, and/or provide quality assurance to their customers, Carlson Software (USA) has developed the Carlson SurveyGNSS post-processing programme and presented this during Intergeo 2013. This data post-processing solution is tightly integrated into the Carlson field and office workflow.

SurveyGNSS is designed to accept GNSS data from any receiver in RINEX format. It will also accept proprietary GNSS data in an increasing number of manufacturer formats including NovAtel, Hemisphere GNSS, Altus/Septentrio, and Javad. Additional manufacturer formats will be added in concert with manufacturer cooperation and customer demand.

Carlson SurveyGNSS will process GNSS observations in traditional static, "stop and go" (static-kinematic), and kinematic (moving) antenna positioning modes. The software provides a straightforward, workflow-oriented user interface, which includes an overview map and the observation files, computed vectors, and positions presented in fully functional spreadsheet-like grids.

In addition, Carlson SurveyGNSS provides:

- An autonomous "hands-free" baseline processor offering on-the-fly ambiguity resolution, automated cycle slip detection/removal, and more for baselines up to 200km (125 mi).

- Automated search and retrieval of reference geodetic control and GNSS observations from public data sources such as the National Geodetic Survey and Continuously Operating Reference Station (CORS) networks in the United States.

- Rigorous least squares adjustment and analysis of all computed vectors.

- Seamless integration with downstream applications from Carlson Software and other vendors.

Carlson SurveyGNSS is being developed in strong partnership with WaSoft of Dresden, Germany, and its proven line of GNSS software technologies.

Carlson SurveyGNSS is scheduled to be available from local Carlson representatives or dealers by 1 December 2013. Carlson is at Stand #3.097 at Intergeo, 8 to 10 October 2013.

https://www.gim-international.com/content/article/gnss-post-processing-programme-carlson-software