SurveyGNSS

Carlson
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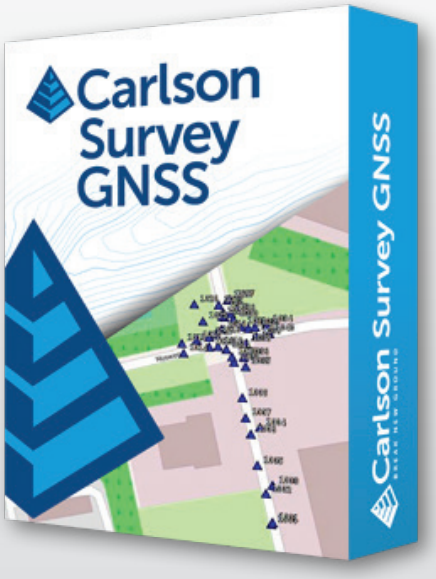
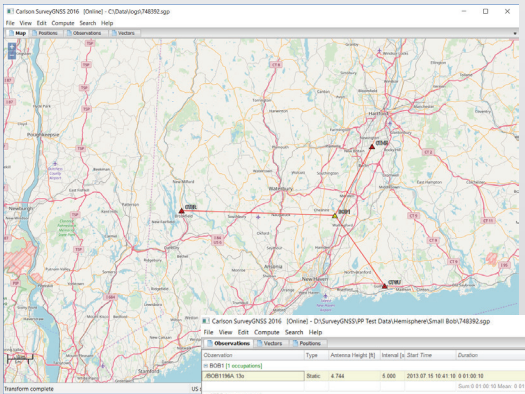
For all your Post-Processing needs

- Achieve high accuracy results in areas with limited or no real-time corrections
- Import GNSS observations from any GNSS receiver in RINEX format
- Accept GNSS observations in a variety of proprietary formats
- Get intuitive user interface with tables, maps and graphs
- Improve the quality of single frequency GIS data
- Interact efficiently with Carlson field solutions such as SurvCE and SurvPC and also with Carlson office software
- Carry out quality control of GNSS data before export to Survey or GIS software

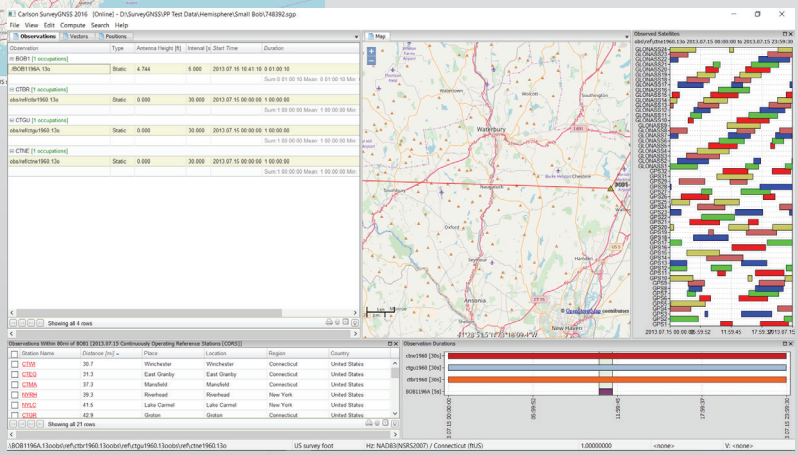
Get the most out of your GNSS Data

For surveyors and positioning professionals looking to achieve centimeter accuracy when working on the edge of their RTK infrastructure, perform sub-centimeter positioning, and/or provide the highest quality assurance to their customers, Carlson Software has developed the all new Carlson SurveyGNSS post-processing program.

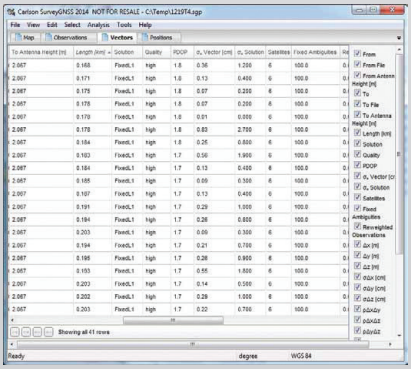




Background map view with vectors and positions



Graphic view of observed satellites and observations



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Carlson SurveyGNSS - Specifications

Carlson SurveyGNSS at a glance:

- **Supports** differential post-processing of RINEX GNSS observations in static, 'stop and go' and kinematic positioning modes
- **GNSS observations** from any GNSS receiver in RINEX format
- **Accepts** proprietary GNSS observations in the following formats:

RINEX	**v2, v3**	Leica	***.m00, lb2**
Carlson	***.log** and ***.rw5**	NVS	***.nvs**
Hemisphere GNSS	***.bin**	Septentrio	***.sbf**
Altus	***.sbf**	Sokkia	***.tos, *.pdc**
Javad	***.bin**	Topcon	***.tps**
NovAtel	***.log**	Trimble	***.dat, *.t**, *.r****
FOIF	***.f****	ublox	***.ubx**

– Additional proprietary manufacturer file formats will be added based on manufacturer cooperation and/or customer demand

- **Provides** a straightforward, workflow-oriented user interface including an overview map and observation files, computed vectors, and positions presented in fully functional spreadsheet-like grids
- **Incorporates** a proven state of the science, highly autonomous baseline processor offering on-the-fly ambiguity resolution, automated cycle slip detection / removal, and more for baselines up to 200km (125mi)
- **Automated search** and retrieval of reference geodetic control and GNSS observations from organizations such as the US National Geodetic Survey and Continuously Operating Reference Station (CORS) networks
- **Automated search** and retrieval of SP3 precise ephemeris files as well as ionosphere model files
- **Rigorous least squares adjustment** of all computed vectors
- **Seamless integration** with downstream applications from Carlson and other vendors
- **Ready for the future:** support of Galileo, Bediou and Juntencho signals as soon as these become commercially available
- **SurveyGNSS now also works offline.** Typical online functionality (downloading reference station data, background map) will not be available. Vector processing is available, as well as GNSS Resection(s)

Optional

- SurveyGNSS now supports Precise Point Positioning (PPP) as a separate module. Raw data from any single or dual frequency phase data receiver can be used for PPP processing. There is no need for a base or reference network; the receiver can log data autonomously. Depending on observation time, cm-accuracy is achievable.
- SurveyGNSS now uses locally available Positions and associated Observations to compute GNSS Resections and Virtual Reference Stations. The Virtual Reference Station is created as a RINEX file. The VRS can be used as base in both static and stop and go surveys.

Please check a full list of features and improvements on - http://www.carlsonsw.com/solutions/land-survey/surveygnss/

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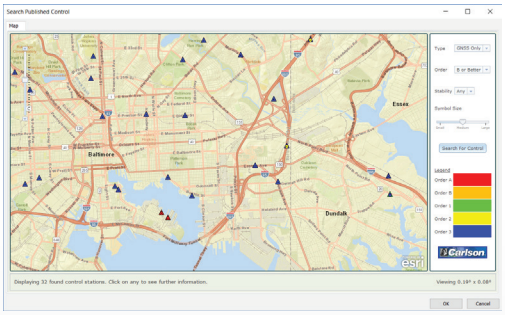
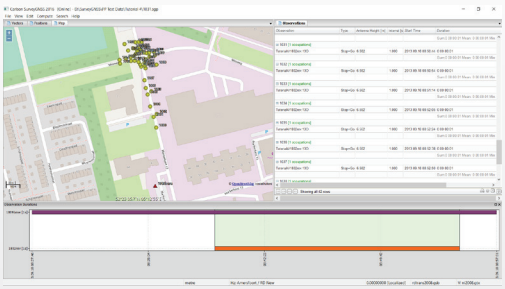
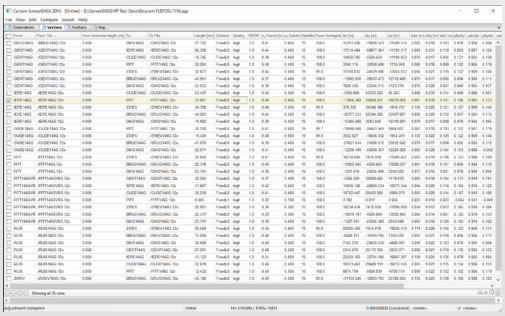


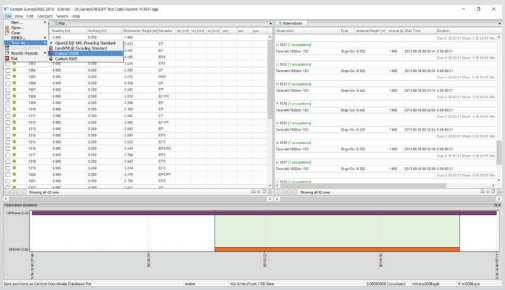
Automated search of published known points



Stop and Go rover points for topo survey



View with processed vectors and choice of items to display



Supported export format

710-240-30