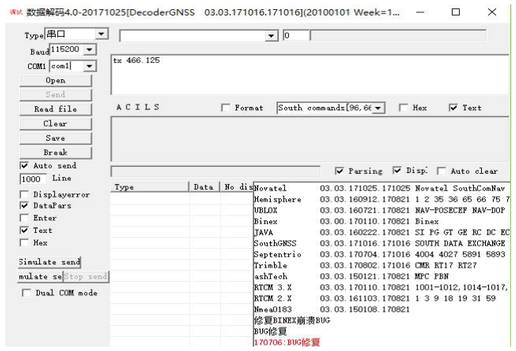
Tools integrated

SGO is equipped with more than ten tools such as CAD, coordinate conversion, road design, instar, decoder, Data QC, Torinex, and antenna management. Install one software to meet almost any geographic data processing needs.

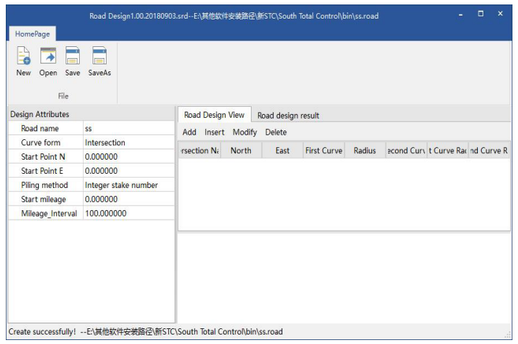
Decoder

For debugging the SOUTH RTK receivers



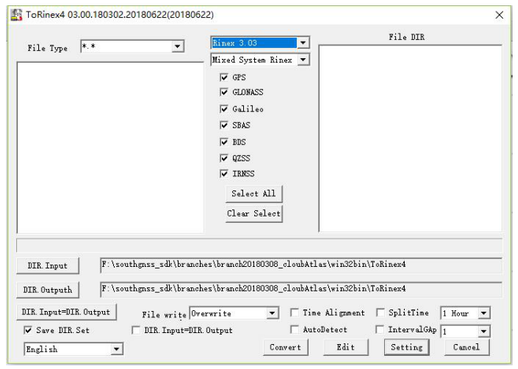
Road Design

The road design now can be done at SGO.



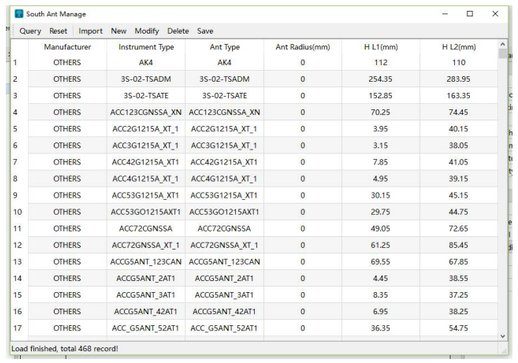
Torinex

For converting SOUTH 'STH' to 'Rinex'.



Antenna management centre

Synchronous antenna files from certificated NGS.



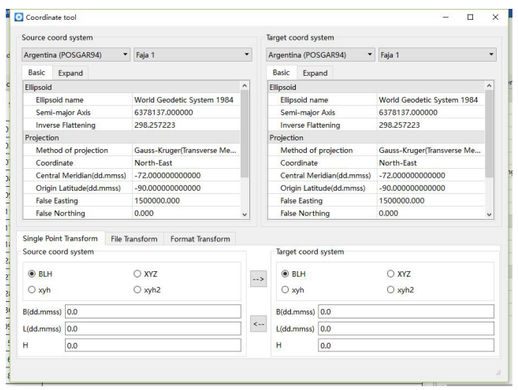
	Manufacturer	Instrument Type	Ant Type	Ant Radius(mm)	H L1(mm)	H L2(mm)
1	OTHERS	AK4	AK4	0	112	110
2	OTHERS	3S-02-TSADM	3S-02-TSADM	0	254.35	283.95
3	OTHERS	3S-02-TSATE	3S-02-TSATE	0	152.85	163.35
4	OTHERS	ACC123CGNSSA_XN	ACC123CGNSSA_XN	0	70.25	74.45
5	OTHERS	ACC2G1215A_XT_1	ACC2G1215A_XT_1	0	3.95	40.15
6	OTHERS	ACC3G1215A_XT_1	ACC3G1215A_XT_1	0	3.15	38.05
7	OTHERS	ACC42G1215A_XT1	ACC42G1215A_XT1	0	7.85	41.05
8	OTHERS	ACC4G1215A_XT_1	ACC4G1215A_XT_1	0	4.95	39.15
9	OTHERS	ACC53G1215A_XT1	ACC53G1215A_XT1	0	30.15	45.15
10	OTHERS	ACC53GO1215AXT1	ACC53GO1215AXT1	0	29.75	44.75
11	OTHERS	ACC72CGNSSA	ACC72CGNSSA	0	49.05	72.65
12	OTHERS	ACC72GNSSA_XT_1	ACC72GNSSA_XT_1	0	61.25	85.45
13	OTHERS	ACCG5ANT_123CAN	ACCG5ANT_123CAN	0	69.55	67.85
14	OTHERS	ACCG5ANT_2AT1	ACCG5ANT_2AT1	0	4.45	38.55
15	OTHERS	ACCG5ANT_3AT1	ACCG5ANT_3AT1	0	8.35	37.25
16	OTHERS	ACCG5ANT_42AT1	ACCG5ANT_42AT1	0	6.95	38.25
17	OTHERS	ACC_G5ANT_52AT1	ACC_G5ANT_52AT1	0	36.35	54.75

Instar

For firmware updating and also some settings of modules.

Coordinate Convertor

For converting the coordinates from the different datumn.



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http://www.southinstrument.com http://www.southsurvey.com

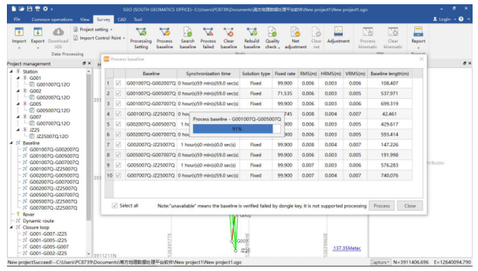
SOUTH
Target your success

SGO-SOUTH GEOMATICS OFFICE is a brand new office software for surveyors. There are many enhanced modules integrated. It is not just a post-processing software anymore, but a comprehensive office software for surveyors. It can edit, process, analysis the data of GNSS receivers, Total Stations, Levels. Besides, the new SGO also supports CAD, Cloud, Online map, Road design, GIS/image processing, EGSTAR project analysis, Earthwork calculation, Data quality check and some tools of debugging. SGO is your reliable partner which can meet your most of job requirements.

SGO

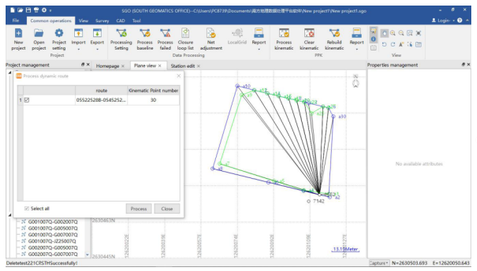
SOUTH GEOMATICS OFFICE

Features



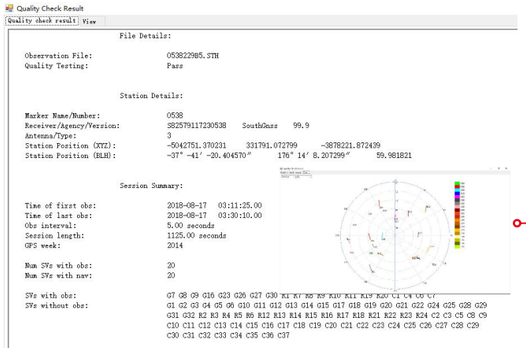
New high-speed processing engine

The new data processing engine can quickly import geographic data, process static baselines, and dynamic baselines. The processing speed is more than three times higher than the old ones.



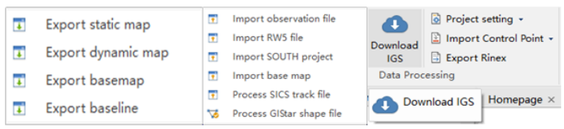
PPK processing

The recording PPK data combined with SGO's powerful data post-processing function can accurately calculate the azimuth coordinates in areas where the differential signal is not covered. At the same time, it supports multi-format track export, which is convenient for graphic re-editing.



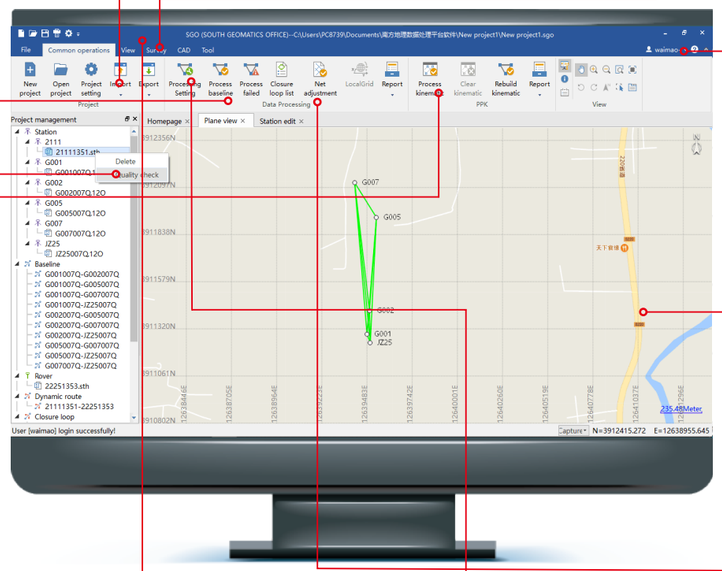
Data QC

The quality of raw data can be easily checked at integrated module, data quality check function. It provides complete data quality analysis, such as multi path, epoch quantity, clock jump, cycle slips, real received data, and sky plot of satellites.



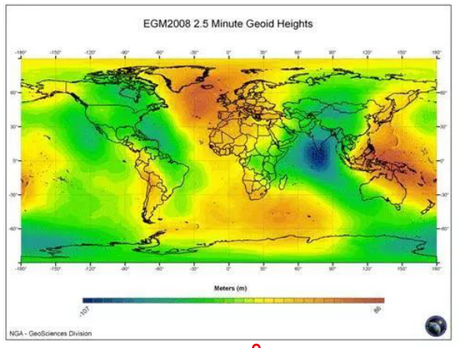
Multi formats

Provides multi import & export format and online IGS data downloading.



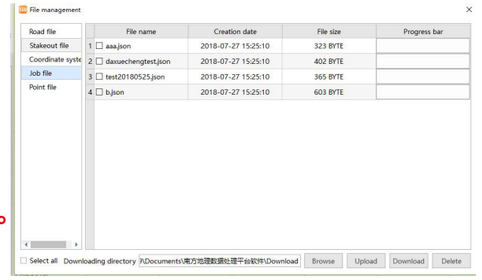
New algorithm

Supports multi-constellation (GPS/GLONASS/BDS/Galileo) free combination solution, single-constellation solution, intelligent elimination of gross error data, accurate reading of data segments. Adopting the new "tropospheric estimation" algorithm, which increases the accuracy and achieve high-precision solution for long baseline by improving data volume and data quality.



EGM

Adopting the global ultra-high-order Earth Gravitational Model, EGM2008, which the global coverage of the data exceeds 80%, and the elevation accuracy is improved while ensuring the accuracy of the plane.

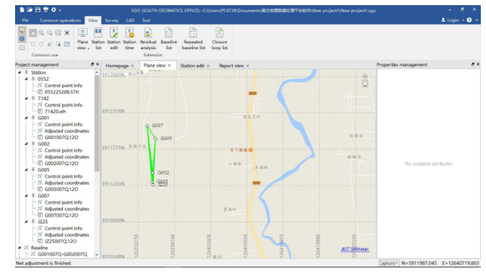


Cloud

Powerful cloud function makes the work between field and office more timely. The filed data can be real-time sent to the Cloud server and get precision result back shortly, which improves the efficiency a lot for surveyors.

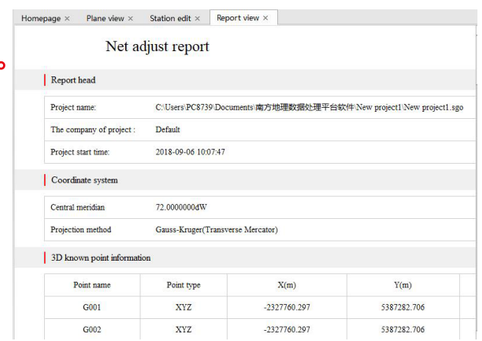
CAD

Match CAD's attribute structure, layers and symbols; Support DXF data format import and export; Measure volume quickly and easily; Automatically simulate terrain, and create CAD results.



Base map

The new base map function is added to combine the software with Google Maps intelligence. The data processing personnel can intuitively obtain the distribution of the control net and the environmental conditions around the site through the visual communication of the base map, thereby judging the data receiving quality of the station to accurate data editing.



Net adjustment

SGO supports adjustment processing of total station and level measurement data, and combines GNSS control network with traverse processing, which can provide you with accurate measurement standards.