# **Specifications**

<b>GNSS Features</b>	
Channels	1698
GPS	L1C, L1C/A, L2C, L2P(Y), L5
GLONASS	G1, G2, G3
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6, AltBOC*
SBAS	L1 <sup>*</sup>
IRNSS	L5 <sup>*</sup>
QZSS	L1, L2C, L5*
MSS L-Band*	Reserve
Positioning	1Hz~20Hz
Output Rate	4.40-
Initialization Time	< 10s
Initialization	>99.99%
Reliability Positioning Preci	sion
Code Differential	Horizontal: 0.25 m + 1 ppm RMS
Positioning	Vertical: 0.50 m + 1 ppm RMS
	Horizontal: 2.5 mm + 0.5 ppm RMS
GNSS Static	Vertical: 3.5 mm + 0.5 ppm RMS
Static (Long	Horizontal: 2.5 mm + 0.1 ppm RMS
Observation)	Vertical: 3 mm + 0.4 ppm RMS
	Horizontal: 2.5 mm + 0.5 ppm RMS
Rapid Static	Vertical: 5 mm + 0.5 ppm RMS
PPK	Horizontal: 3 mm + 1 ppm RMS
FFK	Vertical: 5 mm + 1 ppm RMS
RTK(UHF)	Horizontal: 8 mm + 1 ppm RMS
TOTALOTTI )	Vertical: 15 mm + 1 ppm RMS
RTK(NTRIP)	Horizontal: 8 mm + 0.5 ppm RMS
	Vertical: 15 mm + 0.5 ppm RMS
SBAS Positioning	Typically<5m 3DRMS
RTK Initialization	2~8s
Time	
I Ime IMU Tilt Angle	0°~60°
IMU Tilt Angle	
IMU Tilt Angle Hardware perforn	nance
IMU Tilt Angle Hardware perform Dimension	nance 105mm(φ)*58mm(H)
IMU Tilt Angle  Hardware perform  Dimension  Weight	nance 105mm(φ)*58mm(H) 540g (battery included)
IMU Tilt Angle  Hardware perform  Dimension  Weight  Material	nance 105mm(φ)*58mm(H)
IMU Tilt Angle  Hardware perform  Dimension  Weight	nance 105mm(φ)*58mm(H) 540g (battery included)
IMU Tilt Angle  Hardware perform  Dimension  Weight  Material  Operating	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity  Waterproof/Dustp roof  Shock/Vibration	nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity  Waterproof/Dustp	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity  Waterproof/Dustp roof  Shock/Vibration	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity  Waterproof/Dustp roof  Shock/Vibration Power Supply	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity  Waterproof/Dustp roof  Shock/Vibration Power Supply Battery	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life Communications	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life Communications	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet)
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life Communications I/O Port	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery Battery Life Communications I/O Port	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet)
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof Shock/Vibration Power Supply Battery Battery Life Communications I/O Port  Internal UHF Frequency	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof Shock/Vibration Power Supply Battery Battery Life Communications I/O Port  Internal UHF Frequency Range	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery 25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface Radio receiver
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof Shock/Vibration Power Supply Battery Battery Life Communications I/O Port  Internal UHF Frequency Range Communication	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell  -45°C~+75°C  -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface Radio receiver  410-470MHz  Farlink, Trimtalk, SOUTH, HUACE, Hi-
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof Shock/Vibration Power Supply Battery Battery Life Communications I/O Port  Internal UHF Frequency Range	105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing IP68 standard, protected from long time immersion to depth of 1m IP68 standard, fully protected against blowing dust Withstand 2 meters pole drop onto the cement ground naturally 6-28V DC, overvoltage protection Inbuilt 6800mAh rechargeable Lithium-ion battery 25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface Radio receiver

Communication		
Range	Typically 8km with Farlink protocol	
Bluetooth	Bluetooth 3.0/4.1 standard, Bluetooth 2.1 + EDR	
NFC Communication	Support	
Data Storage/Transmission		
	16GB SSD internal storage	
Storage	Automatic cycling storage	
	Support external USB storage (OTG)	
	The customizable sample interval is up	
	to 20Hz	
Data	Plug and play mode of USB data	
Transmission	transmission	
	Supports FTP/HTTP data download	
	Static data format: STH, Rinex2.01,	
	Rinex3.02 and etc.	
	Differential data format: RTCM 2.1,	
	RTCM 2.3, RTCM 3.0, RTCM 3.1,	
Data Format	RTCM 3.2	
	GPS output data format: NMEA 0183,	
	PJK plane coordinate, Binary code	
	Network model support: VRS, FKP,	
0	MAC, fully support NTRIP protocol	
Sensors		
IMU	Built-in IMU module, calibration-free, 60°	
	Visual positioning camera: 8MP (can be	
Camera	used in AR stakeout)	
	AR stakeout camera: 2MP	
Electronic Bubble	Controller software can display	
	electronic bubble, checking leveling	
	status of the carbon pole in real-time	
	Built-in thermometer sensor, adopting	
Thermometer	intelligent temperature control	
	technology, monitoring and adjusting the	
	receiver temperature	
User Interaction		
Operating	Linux	
System	Cinale hutten	
Buttons Indicators	Single button	
indicators	Power, Bluetooth, data and satellites indicators	
	With access to Web UI via WiFi or USB	
Web Interaction	connection, users can monitor the	
	· ·	
	receiver status and change the	
	configurations Chinese/English/Korean/Spanish/	
Voice Guidance Secondary Development	Portuguese/Russian/Turkish/French/	
	Italian	
	Provides secondary development	
	package, and opens the OpenSIC	
	observation data format and interaction	
	interface definition	
	The powerful cloud platform provides	
Cloud Service	online services like remote management,	
	firmware updates, online registers, etc.	

\*Reserve for future upgrade.

Remarks: Measurement accuracy and operation range might vary due to atmospheric conditions, signal multipath, obstructions, observation time, temperature, signal geometry and number of tracked satellites. Specifications subject to change without prior notice







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Powered By S805



- **Dual Camera Visual Positioning**
- **Dual Camera AR Stakeout**
- 3D Modeling by Video Shooting
- A Few of Ways for Data Processing
- 1698 channels S805 Inside
- Dual-Engine Algorithm
- Farlink 2.0 Radio
- 5<sup>th</sup> generation IMU



# INSIGHT V4

# **Visual Positioning**

# —Do What Traditional RTK Cannot Do



# **More Efficient than Traditional RTK**

INNO4 processes a group of photos or a video in real-time, obtaining coordinates for hundreds of points within minutes. It outpaces traditional RTK in data acquisition speed. Insight INNO4 also has a broader working range and fewer blind spots, enabling remote measurements in areas with poor GNSS signal quality. Previously challenging spots, like spaces under rooftops and areas with obstacles, are now easily measurable.



### More Versatile than Traditional RTK

Leveraging visual positioning, surveyors can efficiently operate in the field. Image data, stored for an extended period, is reusable at any time. These capabilities are especially well-suited for unique GNSS measurement tasks, such as documenting accident scenes and excavation sites for urban public facilities.





# **More Friendly than Traditional RTK**

INNO4 visual positioning allows surveyors to remotely measure points up to 10 meters or more (in ideal conditions), eliminating the need to physically approach each point. This method significantly reduces physical effort in fieldwork.

# **Safer than Traditional RTK**

Visual positioning helps users mitigate risks when surveying near hazardous areas, such as busy roads and lakes, ensuring surveyors' safety. A secure working approach is not only a personal requirement but also essential for the well-being of your family.

# **3D Modeling**

# —Broadening Your Working Power

INNO4 utilizes SOUTH's 3D modeling technology, integrating image measurements seamlessly with UAV data from DJI and other brands. Addressing data gaps in UAV surveys,

INNO4 enhances survey outcomes by supplementing incomplete models with ground image data collection.

INNO4 facilitates streamlined single-user 3D modeling, visually presenting geographic information such as coordinates, areas, and volumes. Effortlessly convert model data into various formats and tailor coordinate parameters to meet the needs of different applications.

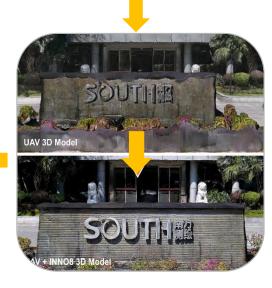
Surveyors can integrate INNO4 data into SOUTH software and third-party modeling software for efficient 3D modeling.

Upcoming versions of SGO (PC) and SurvStar (Android App) will incorporate 3D modeling functions, enabling users to choose the most suitable software for optimal work efficiency based on their specific scenarios and task requirements.



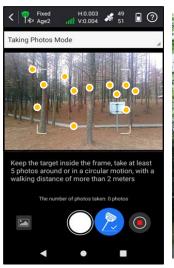






# **A Few Ways to Process Images**

# —Tailored for Your Work Needs



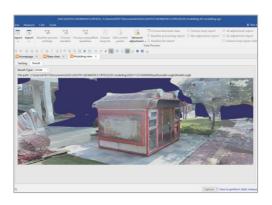


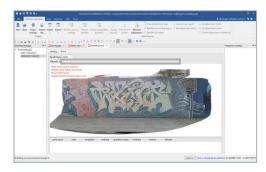


Cloud Server Online Processing
Acquire data timely and precisely

Scan here watch video











**Desktop Software Processing**Ultra accurate and detailed

Scan here watch video



# SurvStar APP

# Field Data Collection & Mapping: The Most Advanced is Here

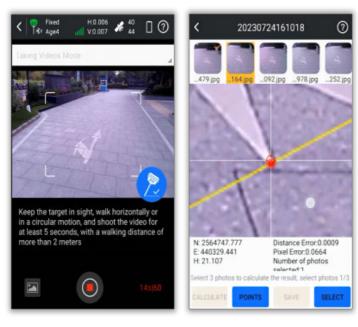
### Measure & Draw: Save Time in Field work and Office



This feature allows you to draw the result map while completing point measurements.

- · Before measuring points, users can choose the shape of the target object to be measured from 11 preset figures. The software will guide you to measure points in an order and automatically connect lines and complete the drawing of the figure.
- The .dxf or .dwg maps created on-site can be used directly in office work.
- Users can assign measured objects with different attributes, to different layers for measurement and management, making no mistakes.

### Visual Positioning: Industry-Leading Non-Contact Measurement Technology



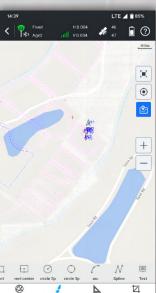
(This function only works with the receiver models that have front-facing camera or dual-cameras)

Photogrammetry Measurements can be conducted by taking pictures or videos. Coordinates of all points in the photos can be acquired.

- · Now, target points that are inaccessible due to dangerous environments, poor satellite signals, or impassable terrain can be measured remotely.
- The captured image data can also be used with software like SGO, Pixel4D, DJI Terra, and CC for 3D modeling.
- Image measurement data can also be combined with drone measurement data to address issues of blurriness and deformation in ground data models collected by drones.

# **CAD Draw**: Drafting without a PC

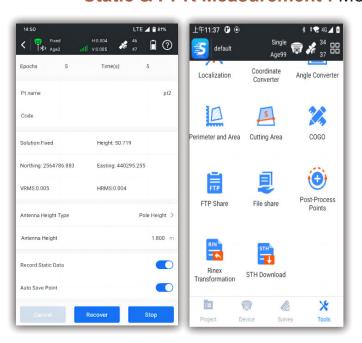




Select points to form a polygon, and directly identify the area division points for the surveyor to stake out. There is no more need for the user to guess a position to measure, and then to adjust.

- · CAD drawing does not require a computer.
- CAD files prepared on office PCs can be edited and managed by users on RTK data collection terminals.
- Drawing tools include up to 11 types of figures and one type of text.

### Static & PPK Measurement: More Assistance Now is Available



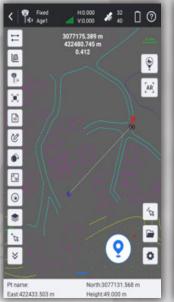
The software provides both static and PPK data collection capabilities.

- Data can be downloaded wirelessly, no need for a PC and cables.
- It is possible to convert .sth files into RINEX files right on the data collector or tablet or your phone, no need of PC.
- Data can be shared with others through mobile Internet.
- The accuracy of PPK data collection is as high as Trimble equipment, the result can be directly imported for use in TBC.

# SurvStar APP

# **Stakeout: Lighten Your Load, Increase Your Output**

### **CAD Stake-Out**: Save Labor Cost and Reduce Errors



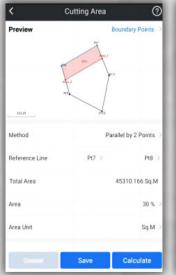


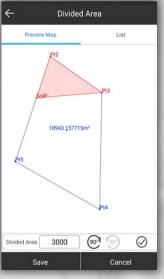
Traditional data collection software requires users to import points or lines to be setout from .csv or .txt files, users need to spend quite a lot of time to edit point and line libraries.

Moreover, for complex shapes such as curves, circles, and polygons, the traditional stake-out process is complicated. Now, our new CAD stake-out program offers a superior solution for surveyors.

- · No need for manual editing of point libraries.
- Staking-out geometric shape is faster and easier.
- No need for obtaining coordinate files before work. Staking-out can be done with just a CAD drawing.
- Online maps and CAD drawings can be displayed simultaneously, improving accuracy.
- AR guide lines make staking-out more intuitive.

# Area Division: Developed for Professional Cadastral Survey and Stake Out



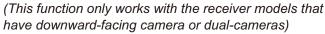


Select points to form a polygon, and directly identify the area division points for the surveyor to stake out. There is no more need for the user to guess a position to measure, and then to adjust.

- Six methods of division to determine the area division points. The methods are flexible and suitable to different user needs.
- The graphic display is intuitive and understandable.

### Live-View Stake-Out: Faster, More Accurate, More Intelligent





Users utilize the real-time imagery captured by the camera at the bottom of the receiver and the AR guide lines displayed by the software, to locate the target points.

- When users perform stake-out with a dual-camera GNSS receiver, the software can call upon both cameras to work together. At medium to long distances, the software uses the front-facing camera to indicate the direction of travel, and at close range, it uses the downward-facing camera to find the specific location. This further increases the speed of staking out.
- AR guide lines can be displayed in point staking out, line staking out, and CAD staking out programs.

### **Additional Features**

# **Compatible with Multiple Devices**



The App Now works with GNSS, Total Station, Echo Sounder, GIS Tablet, in future it will work with SLAM Scanner. Terrestrial Lidar Scanner.

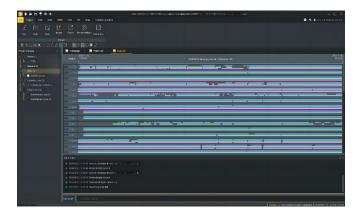
# Innovations for Better User Experience

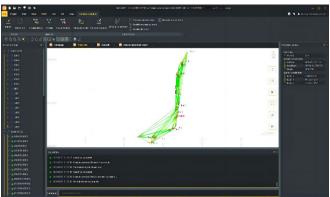
- RTK Data Backup
- QR Code Share
- Multiple Basemap Support
- Basemap
- Adjustment
- Network Mount Point Sorting
- NMEA Output Setting

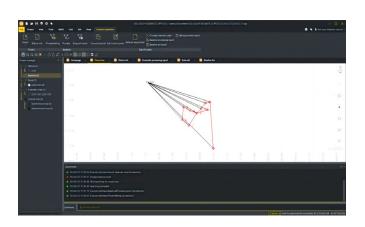
.....

# **SOUTH Geo Office (SGO)**

# Ideal GNSS Data Processor, Help You To Keep Advancing









### **Data Processing & Reporting**

When surveyors need to do post-processing of GNSS data, our software always can provide state-of-the-art technology to help you to produce optimal results. User just need to import field data, the software will automatically process GNSS baselines. Once results come out, the software can generate reports.

### **RINEX Import and Export**

This feature enables users to import the third party GNSS receiver data into our software and post-process it, by using the industry standard RINEX format.

# **High Accuracy Guaranteed**

RTK check, the unique function in our software, can compare RTK and PPK results to automatically acquire the most accurate coordinates for each target point.

It fills up the gap of poor corrections in RTK or hindered observations in PPK.

This improvement is to provide guarantee for your every survey.

### **3D Modelling**

User can import photogrammetry image data into the software, to achieve 3D modeling, visually presenting geographic information data such as coordinates, areas, and volumes.

Model data can be transformed into different formats and applied with various coordinate parameters based on actual needs, making it adaptable to a wider range of application scenarios.

