# **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 IRNSS	L5*
QZSS	L1, L2C, L5*
MSS L-Band*	Reserve
Positioning	
Output Rate	1Hz~20Hz
Initialization Time	< 10s
Initialization	. 00 000/
Reliability	>99.99%
<b>Positioning Preci</b>	sion
Code Differential	Horizontal: 0.25 m + 1 ppm RMS
Positioning	Vertical: 0.50 m + 1 ppm RMS
GNSS Static	Horizontal: 2.5 mm + 0.5 ppm RMS
	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
Rapid Static	Horizontal: 2.5 mm + 0.5 ppm RMS
•	Vertical: 5 mm + 0.5 ppm RMS
PPK	Horizontal: 3 mm + 1 ppm RMS
	Vertical: 5 mm + 1 ppm RMS  Horizontal: 8 mm + 1 ppm RMS
RTK(UHF)	Vertical: 15 mm + 1 ppm RMS
	Horizontal: 8 mm + 0.5 ppm RMS
RTK(NTRIP)	Vertical: 15 mm + 0.5 ppm RMS
SBAS Positioning	Typically<5m 3DRMS
RTK Initialization	
	2~8s
Time	_ 00
IMU Tilt Angle	0°~60°
IMU Tilt Angle Hardware perforn	0°~60°
IMU Tilt Angle  Hardware perforn  Dimension	0°~60° nance 105mm(φ)*58mm(H)
IMU Tilt Angle  Hardware perform  Dimension  Weight	0~60°  nance 105mm(φ)*58mm(H) 540g (battery included)
IMU Tilt Angle  Hardware perform  Dimension  Weight  Material	0°~60° nance 105mm(φ)*58mm(H)
IMU Tilt Angle  Hardware perform  Dimension  Weight  Material  Operating	0°~60°  nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell
IMU Tilt Angle  Hardware perform  Dimension  Weight  Material  Operating  Temperature	0~60°  nance 105mm(φ)*58mm(H) 540g (battery included)
IMU Tilt Angle  Hardware perform  Dimension  Weight  Material  Operating  Temperature  Storage	0°~60°  nance 105mm(φ)*58mm(H) 540g (battery included) Magnesium aluminum alloy shell -45°C~+75°C
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature	0°~60°  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	0°~60°  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	0°~60°  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 Humidity	0°~60°  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 Waterproof/Dustp	0°~60°  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
IMU Tilt Angle  Hardware perform Dimension  Weight Material Operating Temperature Storage Temperature Humidity  Waterproof/Dustp	0°~60°  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
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp	0°~60°  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	0°~60°  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 Power Supply	0°~60°  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 roof  Shock/Vibration	0°~60°  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 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	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion battery
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life <sup>1</sup>	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithium-
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery  Battery Life¹  Communications	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion 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 <sup>1</sup>	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion 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 Life¹  Communications	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion 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 Life¹  Communications I/O Port	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion 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 Life¹  Communications	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion 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 Life¹ Communications I/O Port  Internal UHF Frequency	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface Radio receiver and transmitter
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery Battery Life¹ Communications I/O Port  Internal UHF Frequency Range	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface Radio receiver and transmitter
IMU Tilt Angle  Hardware perform Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof/Dustp roof  Shock/Vibration Power Supply Battery Battery Life¹ Communications I/O Port  Internal UHF Frequency	0°~60°  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 6-28V DC, overvoltage protection Inbuilt 5000mAh rechargeable Lithiumion battery  25h (rover mode)  Type-C interface (charge+OTG+Ethernet) UHF antenna interface Radio receiver and transmitter

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	
	Automatic cycling storage	
Storage	Support external USB storage (OTG)	
	The customizable sample interval is up to 20Hz	
Data	Plug and play mode of USB data	
Data	transmission	
Transmission	Supports FTP/HTTP data download	
	Static data format: STH, Rinex2.01,	
	Rinex3.02 and etc.	
	Differential data format: RTCM 2.1,	
Data Format	RTCM 2.3, RTCM 3.0, RTCM 3.1,	
	RTCM 3.2	
	GPS output data format: NMEA 0183,	
	PJK plane coordinate, Binary code	
	Network model support: VRS, FKP,	
	MAC, fully support NTRIP protocol	
Sensors	, , , , , ,	
IMU	Built-in IMU module, calibration-free, 60°	
IIVIO	· · · · · · · · · · · · · · · · · · ·	
	Visual positioning camera: 8MP (can be	
Camera	used in AR stakeout)	
	AR stakeout camera: 2MP	
	Controller software can display	
Electronic Bubble	electronic bubble, checking leveling	
	status of the carbon pole in real-time	
	Built-in thermometer sensor, adopting	
	intelligent temperature control	
Thermometer	technology, monitoring and adjusting the	
	receiver temperature	
User Interaction	receiver temperature	
Operating	Linux	
System	0: 1 1 "	
Buttons	Single button	
Indicators	Power, Bluetooth, data and satellites	
	indicators	
\\/ -  -	With access to Web UI via WiFi or USB	
Web Interaction	With access to Web UI via WiFi or USB	
web interaction	With access to Web UI via WiFi or USB connection, users can monitor the	
web interaction	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the	
web interaction	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations	
	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/	
Voice Guidance	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/	
	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/ Italian	
Voice Guidance	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/ Italian Provides secondary development	
Voice Guidance Secondary	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/ Italian Provides secondary development package, and opens the OpenSIC	
Voice Guidance	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/ Italian Provides secondary development package, and opens the OpenSIC observation data format and interaction	
Voice Guidance Secondary	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/ Italian Provides secondary development package, and opens the OpenSIC observation data format and interaction interface definition	
Voice Guidance Secondary Development	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ 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	
Voice Guidance Secondary	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations Chinese/English/Korean/Spanish/ Portuguese/Russian/Turkish/French/ Italian Provides secondary development package, and opens the OpenSIC observation data format and interaction interface definition	

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.

1. Actual battery life can vary depending on usage patterns and other factors. The listed parameter was obtained under controlled testing conditions.





#### SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

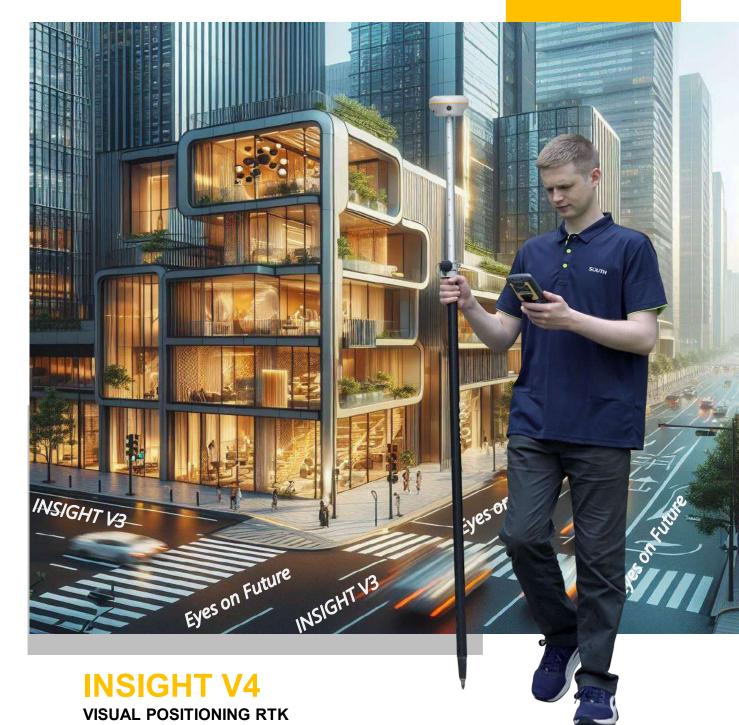
Add: South Geo-Information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China

Tel: +86-20-23380888 Fax: +86-20-23380800

E-mail: mail@southsurvey.com export@southsurvey.com impexp@southsurvey.com gnss@southsurvey.com http://www.southinstrument.com http://www.southsurvey.com



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





# **Visual Positioning**

# —Do What Traditional RTK Cannot Do



### **More Efficient than Traditional RTK**

Insight V4 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 V4 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**

Insight V4 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

Insight V4 utilizes SOUTH's 3D modeling technology, integrating image measurements seamlessly with UAV data from DJI and other brands. Addressing data gaps in UAV surveys,

Insight V4 enhances survey outcomes by supplementing incomplete models with ground image data collection.

Insight V4 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 Insight V4 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.



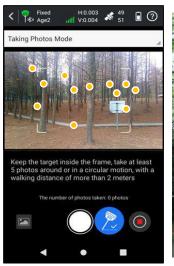






## **A Few Ways to Process Images**

## —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

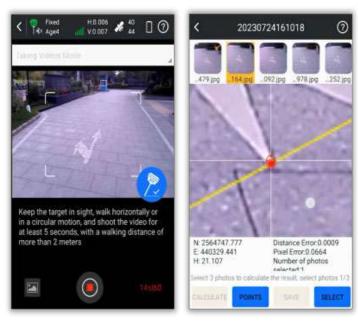
#### Measure & Draw: Save Time in Field work and Office



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

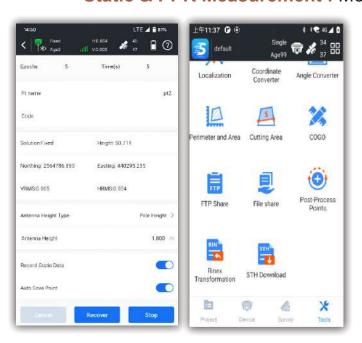




Select points to form a polygon, and directly identify the area division points for the surveyor to stake out. There is no more need for the user to guess a position to measure, and then to adjust.

- 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



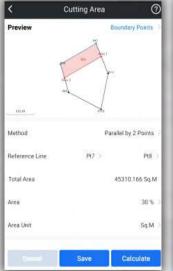


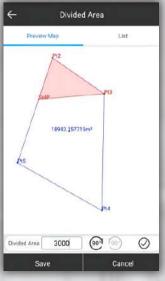
Traditional data collection software requires users to import points or lines to be setout from .csv or .txt files, users need to spend quite a lot of time to edit point and line libraries.

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



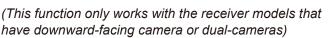


Select points to form a polygon, and directly identify the area division points for the surveyor to stake out. There is no more need for the user to guess a position to measure, and then to adjust.

- 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.

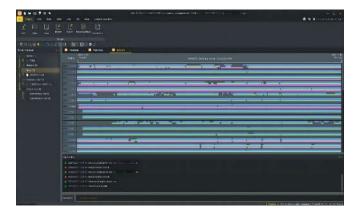
# Innovations for Better User Experience

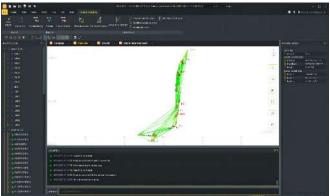
- RTK Data Backup
- QR Code Share
- Multiple Basemap Support
- Basemap
- Adjustment
- Network Mount Point Sorting
- NMEA Output Setting

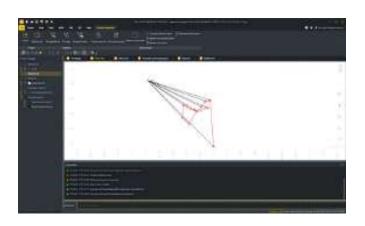
....

# **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.

