SPECIFICATIONS

GNSS Features	0040
Channels	2048
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*
IRNSS	L5*
QZSS	L1, L2C, L5*
MSS L-Band*	Reserve
Positioning	1Hz~20Hz
Output Rate	1112 20112
Initialization Time	< 10s
Initialization	>99.99%
Reliability	~99.99 /o
Positioning Precision	n
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
David Otatia	Horizontal: 2.5 mm + 0.5 ppm RMS
Rapid Static	Vertical: 5 mm + 0.5 ppm RMS
DDI	Horizontal: 3 mm + 1 ppm RMS
PPK	Vertical: 5 mm + 1 ppm RMS
DTI((1115)	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	Typically form obtained
T TTT TITIGATIZATION	2~8s
Time	208
Time IMLI Tilt Angle	
IMU Tilt Angle	0°~60°
IMU Tilt Angle Hardware Performa	0°~60° nce
IMU Tilt Angle Hardware Performa Dimension	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H)
IMU Tilt Angle Hardware Performa Dimension Weight	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (battery included)
IMU Tilt Angle Hardware Performa Dimension Weight Material	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H)
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (battery included)
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (battery included) Magnesium aluminum alloy shell
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (battery included) Magnesium aluminum alloy shell
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (battery included) Magnesium aluminum alloy shell -45°C~+75°C
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (battery included) Magnesium aluminum alloy shell -45°C~+75°C -55°C~+85°C 100% Non-condensing
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof //Dustproof Shock/Vibration	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof //Dustproof	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof //Dustproof Shock/Vibration	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply Battery	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 16h (static) 12h (rover)
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply Battery Battery Life	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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
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IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply Battery Battery Life	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 16h (static) 12h (rover) 10h (built-in UHF base)
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply Battery Life Communications	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 16h (static) 12h (rover) 10h (built-in UHF base) 5-PIN LEMO interface (external power port + RS232)
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply Battery Battery Life	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 16h (static) 12h (rover) 10h (built-in UHF base) 5-PIN LEMO interface (external power port + RS232) Type-C interface
IMU Tilt Angle Hardware Performa Dimension Weight Material Operating Temperature Storage Temperature Humidity Waterproof /Dustproof Shock/Vibration Power Supply Battery Life Communications	0°~60° nce 134mm(W) ×134mm(L) × 79.1mm(H) 860g (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 16h (static) 12h (rover) 10h (built-in UHF base) 5-PIN LEMO interface (external power port + RS232)
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Frequency Range	410-470MHz
Communication Protocol	Farlink, Trimtalk, SOUTH
Communication Range	Typically 5-8 km with Farlink protocol, up to 12-15 km in optimal condition
Bluetooth	Bluetooth 3.0/4.1 standard, Bluetooth 2.1 + EDR
NFC Communication	Support
Modem	802.11 b/g/n standard wifi and 4G
Data Storage/Trans	mission
Storage	16GB SSD internal storage Support external USB storage (OTG) The customizable sample interval is up
Data transmission	to 20Hz Plug and play mode of USB data transmission
Data format	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, RTCM 3.2, CMR GPS output data format: NMEA 0183, PJK plane coordinate, Binary code Network model support: VRS, FKP, MAC, fully support NTRIP protocol
Sensors	Idily Support NTRIP protocol
	Front Comerc OMD Dattors Comerc OMD
Camera Electronic bubble	Front Camera 8MP, Bottom Camera 2MP Controller software can display electronic bubble, checking leveling status of the carbon pole in real-time
Thermometer	Built-in thermometer sensor, adopting intelligent temperature control technology, monitoring and adjusting the receiver temperature
User Interaction	
Operating system	Linux
Buttons Indicators	Single button Bluetooth, satellites, data, charging and power indicators
Web interaction	With access to Web UI via WiFi or USB connection, users can monitor the receiver status and change the configurations
Voice guidance	Chinese/English/Korean/Spanish/Portuguese Russian/Turkish/French/Italian
Secondary development	Provides secondary development package, and opens the OpenSIC observation data format and interaction interface definition
	The powerful cloud platform provides online services like remote management, firmware

^{*}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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http://www.kolidainstrument.com



VS50

See Better, Work Better!



- ► Visual Positioning & Stakeout
- ► 3D Modeling
- ▶ 3 Ways of Processing

- ► 1698 Channels
- ► Farlink 2.0
- ► 4th Generation IMU





More Efficient than Traditional RTK

VS50 can process a set of photos or a video, acquiring coordinates for hundreds of points within minutes. It boasts a wider working range and fewer blind spots through remote measurements with the camera. Locations that were once challenging, such as spaces under rooftops and areas with obstacles, are now easily measurable.

More Versatile than Traditional RTK

Utilizing visual positioning, surveyors can collect field data in a short time. The data can preserve safely in the device and is reusable at any time. These capabilities are particularly well-suited for distinctive GNSS measurement tasks, including documenting accident scenes and excavation sites for urban public facilities.

More User-friendly than Traditional RTK

VS50 visual positioning enables surveyors to measure points remotely, reaching distances of up to 10 meters or more (under ideal conditions), thereby eliminating the necessity to physically approach each point. This approach decreases the physical effort required during fieldwork.

Safer than Traditional RTK

Leveraging visual positioning aids users in minimizing risks during surveys conducted in hazardous areas, such as busy roads and lakes, ensuring the safety of surveyors. Adopting a secure working approach is not only a personal need but also essential for the well-being of your family.

Three Approaches to Process

-- Precision Crafted for Your Work Specifications



Designed for Field Surveying

-- Data Controller Offline Processing

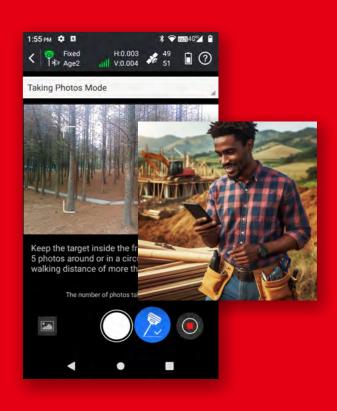
Without internet coverage, surveyors can perform offline image data processing using the data controller app. This mode offers the fastest processing speed, saving time on data uploads and delivering 4cm accuracy results within 30 seconds.



Designed for Urban Surveying

--Cloud Server Online Processing

Surveyors, with a strong internet connection in urban areas, can process image data online using network and cloud servers. INNO8 achieves 2cm accurate coordinate data for image measurements within minutes, balancing precision and speed.



Designed for Users with Tight Fieldwork Schedules

-- Desktop Software Processing

For time-sensitive fieldwork, surveyors can opt not to process data on-site. Instead, they can use desktop post-processing software back in the office for enhanced measurement and calculation functionalities. This mode allows outdoor focus on data collection, maximizing point acquisition speed and time efficiency.

3D Modeling--Broadening Your Working Power

Eyes on Now, Be Prepared for Future

VS50 enables single-user 3D modeling, on the models visually displaying geographic information like coordinates, areas, and volumes. It supports transforming model data into different formats and customize coordinate parameters for diverse applications.



Ensuring a Smooth Journey for Your Success

VS50 harnesses KOLIDA's 3D modeling tech, seamlessly integrating image measurements with UAV data, including DJI and other brands. Overcoming data gaps in UAV surveys, VS50 supplements incomplete models by collecting ground image data, improving overall survey outcomes.



Work in Your Preferred Way

Surveyors can import VS50 data into KOLIDA UAV and third-party modeling software for 3D modeling. Future updates to KGO (PC version) and KSurvey (Android App) will also include 3D modeling functions, allowing users to select the most suitable software for optimal work efficiency based on scenario and task requirements.





0.1mm

5 years

KOLIDA

Left and Right Camera Deviation

The modular design ensures that the assembly flatness of the camera is within 0.15mm, with a left and right deviation of within 0.1mm, preventing camera misalignment and ensuring the accuracy of visual positioning.

Polycarbonate Top Cover

The top cover and ring utilize integral molding technology, ensuring strong integrity and resistance to damage. The polycarbonate material is corrosion-resistant, protecting internal precision components. It mitigates the impact of extreme environments on the mainframe and can be used in natural settings for over 5 years.

Impact Resistance

110N

KOLIDA

The anti-collision ring utilizes TPU material, effectively cushioning against an impact force of 110N (the impact force from a 2-meter drop is approximately 30N). Therefore, it safeguards your VS50 from a 2-meter pole drop or other unexpected impacts.

Protective Layer

The polyethylene coating can reach 100-300µm, preventing aging and rust of the shell, providing scratch resistance, and offering effective protection for over ten years.

The internal heating components are closely fitted to the shell, and passive air cooling is utilized for heat dissipation. With a thermal conductivity of $65W/(m\cdot K)$, it can achieve heat dissipation without the need for additional cooling components, ensuring optimal operation under different temperature conditions.

Thermal Conductivity

0.1μm

Micropore Diameter of the Waterproof Membrane

The diameter of drizzle ($400\mu m$) is 40-4000 times that of the E-PTFE membrane. Therefore, it can prevent rainwater from passing through the protective film.

65W/(m-k)

Rotational Deviation

The bottom threaded interface mai^o ntains a rotational deviation of within 5 for the pole, allowing users to precisely install the pole with ease. This convenient installation process saves time for the fieldwork.

The design with a contact angle of 135.6° prevents liquid water from wetting and capillary infiltration. At the same time, it allows for breathability, ensuring the normal operation of internal components of the instrument.

Ksurvey APP

Field Data Collection & Mapping: The Most Advanced is Here

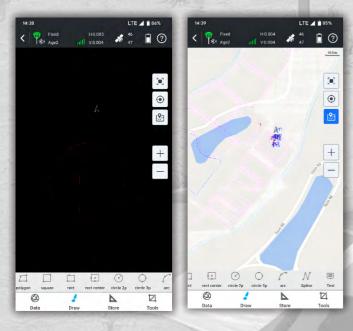
Measure & Draw: Save Time in Field work and Office



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.

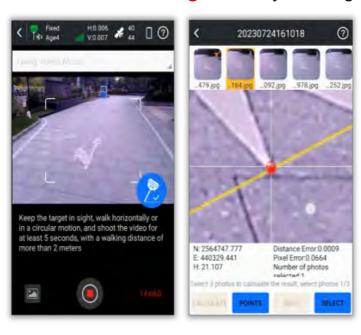
CAD Draw: Drafting without a PC



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.

Visual Positioning : Industry-Leading Non-Contact Measurement Technology

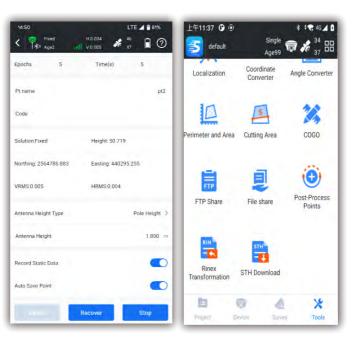


(This function only works with the receiver models that have front-facing camera or dual-cameras)

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.

Static & PPK Measurement: More Assistance Now is Available



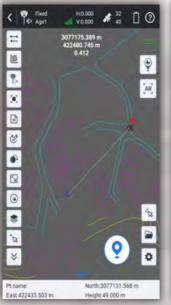
The software provides both static and PPK data collection capabilities.

- 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.

Ksurvey APP

Stakeout: Lighten Your Load, Increase Your Output

CAD Stake-Out: Save Labor Cost and Reduce Errors





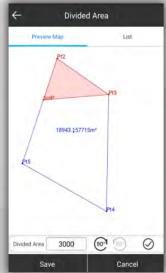
Traditional data collection software requires users to import points or lines to be setout from .csv or .txt files, users need to spend quite a lot of time to edit point and line libraries.

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



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

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.

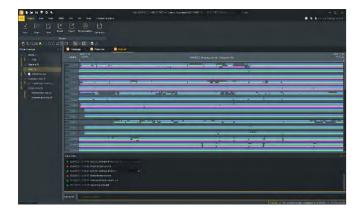
Innovations for Better User Experience

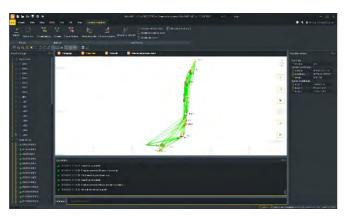
- RTK Data Backup
- QR Code Share
- Multiple Basemap Support
- Basemap
- Adjustment
- Network Mount Point Sorting
- NMEA Output Setting

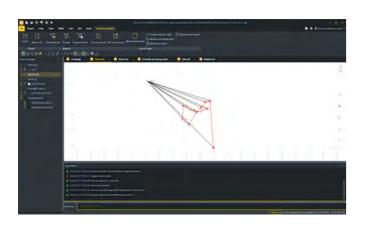
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KOLIDA Geo Office (SGO)

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.

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.

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.

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.

