SPECIFICATIONS

GNSS Features Channels.....

Communication Protocol.

K LIDA

Professional's Choice

GPS.

Communication Range	Typically 8-10km with Farlink protocol,
Bluetooth	(12-15km in optimal condition)
Didetootii	Bluetooth 2.1 + EDR
NFC Communication	Support
Modem	
Data Storage/Transmiss	sion
Storage	
Ū.	Support automatic cycling storage
	Support external USB storage (OTG)
Th	e customizable sample interval is up to 20Hz

Data Transmission......Plug and play mode of USB data transmission Supports FTP/HTTP data download Data Format.....Static data format: STH, Rinex2.01, Rinex3.02, etc. Differential data format: RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinate, Binary code Support: VRS, FKP, MAC, fully support NTRIP protocol

IMU	Built-in IMU module, calibration-free, 60°
Camera	Front Camera: 8MP (can be used in AR
	stakeout), Bottom Camera 2MP
	(for Live-view AR stakeout camera)
Laser	3R green laser, 30m working range
Electronic Bubble	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	One button
Indicators	Data and power indicators
Display	Without Screen
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/
	Arabic
Secondary Development	Provides secondary development package,
	and opens the OpenSIC observation data
	format and interaction interface definition
Cloud Service	The powerful cloud platform provides
	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

GLONASS	G1, G2, G3
BDS	
GALILEOS	E1, E5a, E5b, E6, AltBOC*
SBAS	L1*
IRNSS	L5*
QZSS	L1, L2C, L5*
MSS L-Band	Reserve
Positioning Output Rate	<u>1</u> Hz~20Hz
Initialization Time	< 10s
Initialization Reliability	> 99.99%
Positioning Procision	
Code differential GNSS por	sitioning Horizontal: 0.25 m + 1 ppm RMS
Code differential GNGG pos	Vertical: 0.50 m + 1 ppm RMS
CNSS Statio	Horizontal: 2.5 mm + 0.5 ppm RMS
GNGG Static	Vertical: 3.5 mm + 0.5 ppm RMS
Static (Long Obsonvation)	Horizontal: 2.5 mm + 0.1 ppm RMS
Static (Long Observation)	Vertical: 3 mm + 0.4 nnm RMS
Panid Static	Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 5 mm + 0.5 ppm RMS
DDK	Horizontal: 3 mm + 1 ppm RMS
F F N	Vertical: 5 mm + 1 ppm RMS
	Horizontal: 8 mm + 1 ppm RMS
	Vertical: 15 mm + 1 nnm RMS
	Horizontal: 8 mm + 0.5 ppm RMS
RTR(INTRIP)	Vertical: 15 mm + 0.5 ppm RMS
SBAS Positioning	Typically<5m 3DRMS
PTK Initialization Time	2~8s
IMI LAccuracy	8mm+0.7 mm/°tilt
	Optimal accuracy within 60°
Hardware Performant	124mm(%)×70mm(H)
Dimension	[34ΠΠ(Ψ)^/9ΠΠ(Π)
Weight	Magnesium aluminum allov shell
Storage Temperature	-55°~+85°
Storage remperature	100% Non-condensing
Materproof/Ductoroof	IP68 standard
Shock//ibration	Withstand 2 meters note drop onto the
SHOCK VIDI AUOI 1	cement ground naturally
Power Supply	6-28V DC, overvoltage protection
Power Suppry	Inbuilt 7 4v 6800mAb rechargeable Lithium-
Dallery	ion battery
Potton / Life	25h (static)
Ballery Life	20h (rover mode, ontimal condition)
Communications	
	5-PINTEEMO interface (external newor
1/U POIT	
	Tupe C interface (charge+OTC+Ethorpot)
Internal LILIE	
	۲۸۵۳۸۲ ۲۵۵۲۸۲ ۲۵۵۲۸۲ ۲۷۷ ۲۵۵۲۸۲ ۲۵۵۲۸۲ ۲۵۲۸ ۲۵۵۲۸۲ ۲۵۲۸ ۲۵۲۸
Frequency Range	

L1C, L1C/A, L2C, L2P(Y), L5

LASER MEASUREMENT 😹

DUAL CAMERA O O



Farlink, Trimtalk, SOUTH

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Email: export@kolidainstrument.com http://www.kolidainstrument.com



K60 Laser RTK LIGHT UP THE FUTURE

KOLIDA

Laser Measurement - Four Advantages to Boost Your Productivity

Laser Stakeout & CAD AR Stakeout - Level Up Your Efficiency to New Platform



3R Green Laser Laser Measurement & Stakeout

> **8MP Camera** Laser Aiming & Stakeout

2MP Camera CAD AR Stakeout

Farlink 2.0 Radio 8-12 km Even Further!





Measure More in Less Time

Laser measurement allows surveyors to collect target point at a position that traditional RTK can not reach directly, such as point on the surface of a wall, a tree, or sill of window, and the small space that surveyors can not step in.

Measure the Inaccessible

Laser measurement allows surveyors to capture target points in locations where traditional RTK cannot directly reach, such as points on walls, tree trunks, windowsills, and narrow spaces that surveyors cannot enter.



Measure in Darkness

Laser measurement enables surveyors to collect target points in dark environments (such as at night or in semiindoor settings). It also allows for indoor distance measurements.

Stay in Safe Position

Laser measurement helps users reduce risks when measuring near hazardous areas (such as busy roads and seaside lakes), ensuring the safety of surveyors. A safe working method is not only a personal requirement but also crucial or the happiness of your family.



Lasers bring more possibilities to staking out.

Now, when you encounter tall obstructions near the target point in the field that block satellite signals, you will no longer be helpless.

Please just enable laser and continue the work.

Additionally, when it is inconvenient to carry instruments to the target point, you can also choose to stake out by laser from a distance of several meters away.



Live-view AR Stakeout can integrate the content of CAD drawing with real-world scenes, helping you stakeout targets more quickly.

The front camera helps surveyors in finding a general direction from a distance and understanding the distribution of surrounding features.

The bottom camera enables precise stakeout as you approach the target.

With dual camera live-view stakeout, your work will be easier and more intuitive.







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.

Visual Positioning : Industry-Leading Non-Contact Measurement Technology



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

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





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.

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.

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)

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.

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.



• When users perform stake-out with a dualcamera 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.

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 (KGO)

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.

