SPECIFICATIONS

Surveying Performance		
Channel	220 Channels	
Signal Tracking	BDS B1, B2, B3	
	GPS L1C/A, L1C, L2C, L2E, L5	
	GLONASS L1C/A, L1P, L2C/A, L2P, L3	
	SBAS L1C/A, L5 (Just for the satellites supporting L5)	
	Galileo GIOVE-A, GIOVE-B, E1, E5A, E5B	
	QZSS, WAAS, MSAS, EGNOS, GAGAN, SBAS	
GNSS Features	Positioning output rate:	1Hz~50Hz
	Initialization time:	< 10s
	Initialization reliability:	>99.99%
Positioning Precision		
Code Differential GNSS Positioning	Horizontal:	±0.25 m + 1 ppm RMS
	Vertical:	±0.50 m + 1 ppm RMS
	SBAS positioning accuracy:	typically<5m 3DRMS RMS
Static GNSS Surveying	Horizontal:	±2.5 mm + 0.5 ppm RMS
	Vertical:	±5 mm + 0.5 ppm RMS
Real-Time Kinematic Surveying	Horizontal:	±8 mm + 1 ppm RMS
(Baseline<30km)	Vertical:	±15 mm + 1 ppm RMS
	Horizontal:	±8 mm + 0.5 ppm RMS
Network RTK	Vertical:	±15 mm + 0.5 ppm RMS
	RTK initialization time:	2~8s
Physical		
Dimension	13.4cm x 11.8cm	
Weight	1.02kg (including installed battery)	
Material	Magnesium aluminum alloy shell	
Environmental		
Operating	-45℃ ~ +60℃	
Storage	-55℃ ~ +85℃	
Humidity	Non-condensing	
Waterproof/Dustproof	IP67 standard, protected from long time immersion to depth of 1m	
	IP67 standard, fully protected against blowing dust	
Shock and Vibration	Not operating:	Withstand 2 meters pole drop onto the cement ground naturally
	While:	Withstand 40G 10 milliseconds sawtooth wave impact test
Electrical		
Power Consumption	2W	
Battery	Rechargeable, removable Lithium-ion battery	
Battery Life	Single battery:	7h (static mode)
		5h (internal UHF base mode)
		6h (rover mode)
Communications and Data Storage		
I/O Port	5PIN LEMO external power port + RS232	
	7PIN LEMO RS232 + USB	
	1 network/radio data link antenna port	
	SIM card slot	
Wireless Modem	Integrated internal radio receiver and transmitter 0.5W/2W	
	External radio transmitter 5W/25W	
Working frequency	410-470MHz	
Communication protocol	TrimTalk450s, TrimMark3, PCC EOT, KOLIDA	
Cellular Mobile Network	WCDMA3.5G network communication module, GPRS/EDGE compatible, CDMA2000/EVDO 3G optional	
Double Module Bluetooth	BLEBluetooth 4.0 standard, support for android, ios cellphone connection	
	Bluetooth 2.1 + EDR standard	
NFC Communication (Optional)	Realizing close range (shorter than 10cm) automatic pair between K5 PLUS and controller (controller equipped NFC wireless communication module)	
Data Storage/Transmission	4GB internal storage, more than 3 years raw observation data (about 1.4M/day), based on recording from 14 satellites	
	Plug and play mode of USB data transmission	
Data Format	Differential data format:	CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
	GPS output data format:	NMEA 0183, PJK plane coordinates, binary code
	Network model support:	VRS, FKP, MAC, supporting NTRIP protocol
Tilt Survey		
Tilt Survey	Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle of the centering rod	
Electronic Bubble	Controller software display electronic bubble, checking leveling status of the centering rod real time	
User Interaction		
Buttons	One-button operation, visual operation, convenient and efficient	

KOLIDA Professional's Choice

GUANGDONG KOLIDA INSTRUMENT CO., LTD.

Add: 7/F, South Geo-information Industrial Park, No.39 Si Cheng Road, Tian He IBD, Guangzhou 510663, China

Tel: +86-20-22139033 Fax: +86-20-22139032

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

KOLIDA Professional's Choice

ELITE K5 Plus

Little Investment Big Return

K5 Plus

The Best Seller of KOLIDA GNSS Family

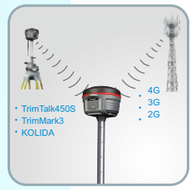
Equipped with the most advanced GNSS positioning technology, K5 plus will provide you an awesome working experience.

Featuring an ultra-powerful GNSS mainboard, K5 plus can track and process signals from GPS, GLONASS, BEIDOU, GALIEO and SBAS systems. With this superior multi-constellation compatibility, the satellite availability, signal acquiring speed are greatly improved, the waiting time has been shortened and the positioning accuracy (RTK) is up to 8mm+ 1ppm in horizontal and 15mm+ 1PPM in vertical.

Key Features

- Light weight, Less pain

The total volume and weight of K5 plus is only 1.02L and 1kg. This "light-weight" design greatly reduce surveyor's working intensity, increase productivity.



- Suitable for all kinds of jobs

K5 plus can work as base, rover, static receiver, can work by radio signal or CORS network signal. It is an ideal solution for construction surveying tasks such as data collection, stake-out, road design. The built-in transceiver radio is compatible with other brand's protocol.

- User Friendly

K5 plus provides a simple and user-friendly workflow to surveyors. User can choose windows mobile apps or Android app to start his work. Instrument can makes voice guidance to direct user's operation.

- Quality Assurance

K5 plus intelligent and open platform makes the system performs more efficient and stable than traditional receiver. Since its launch in 2016, K5 plus sold over 10000 units.

Other Features

Multi-Constellation	5KM Radio Range	410-470MHz Radio Frequency
Bluetooth 4.0	NFC	3G Network Module
4GB Memory Storage	Electronic Bubble	

• Data Collectors Selectable

K720
- Windows Mobile 6.5
- 1Ghz CPU, RAM 256MB
- 512 MB Nand, Extension to 32GB
- 3.7V, 5400mAh removable Li-ion
- 3.7 Inch 480X640VGA
- 5 megapixel camera
- WCDMA
- GPS\BDS
- Include EGSTAR3.0

H3PLUS
- Android 6.0
- Quad-core 1.3GHz CPU, 2GB RAM
- 4.3 Inches, WVGA 800X480dpi
- 8 megapixel camera with auto focus
- 6500mAh, up to 10Hours
- Dual SIM Card
- 4G FDD TDD network, 3G WCDMA
- GPS\GLONASS\SBAS\A-GPS
- Include EGSTAR

• Post-Processing Software *(Free of Charge)*

KOLIDA GEO OFFICE
integrates static data processing and kinematic adjustment *(New program)*

-Antenna manager with popular receiver types.
-Compatible with numerous data format.
-Update online.
-Abundant report exporting.

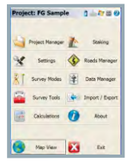
KOLIDA GNSS Processor *(Classical program)*

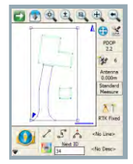
-Fast processing and clear display
-Transformable to RINEX format
-Full options for result Export
-Powerful baseline settings
-Manually edit and filter satellite data for best result

• Field Software

KOLIDA Engineering Star *(Free of Charge)*

Engineering Star is the most welcomed field software in China.
Even a novice can do all complex GNSS survey with EG Star with only six buttons on one screen.

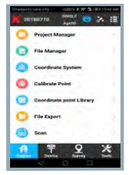




MicroSurvey FIELDGenius *(Need to purchase individually)*

Field Genius is a powerful survey data collection software from Canada.

Advanced Roading, Surfacing, Slope Staking, Code Free Linework.



SurvX *(Need to purchase individually)*

SurvX is a field survey software for android devices. It has the basic functions including point survey, point stake out, line stake out, localization and base map display.