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:	$\pm$0.25 m + 1 ppm RMS
	Vertical:	$\pm$0.50 m + 1 ppm RMS
	SBAS positioning accuracy:	typically<5m 3DRMS RMS
Static GNSS Surveying	Horizontal:	$\pm$2.5 mm + 0.5 ppm RMS
	Vertical:	$\pm$5 mm + 0.5 ppm RMS
Real-Time Kinematic Surveying (Baseline<30km)	Horizontal:	$\pm$8 mm + 1 ppm RMS
	Vertical:	$\pm$15 mm + 1 ppm RMS
	Horizontal:	$\pm$8 mm + 0.5 ppm RMS
Network RTK	Vertical:	$\pm$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 short immersion to depth of 1m
	IP67 standard, fully protected against blowing dust
Shock and Vibration	Withstand 2 meters pole drop onto the cement ground naturally
	Withstand 40G 10 milliseconds sawtooth wave impact test

Electrical		
Power Consumption	2W	
Battery	Rechargeable, removable Lithium-ion battery, 3400 mAh, two units	
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, SOUTH (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 K9 mini and controller (controller equipped with 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

User Interaction	
Buttons	One-button operation, visual operation, convenient and efficient

KOLIDA
Professional's Choice

ELITE K9 mini
Little Investment Big Return

ELITE K9 mini

The Best Seller of KOLIDA GNSS Family

Equipped with the most advanced GNSS positioning technology, K9 Mini will provide you an awesome working experience.

Featuring an ultra-powerful GNSS mainboard, K9 Mini 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

13.4cm

1kg

- Light weight, Less pain

The total volume and weight of K9 Mini is only 1.02L and 1kg. This "light-weight" design greatly reduce surveyor's working intensity, increase productivity.
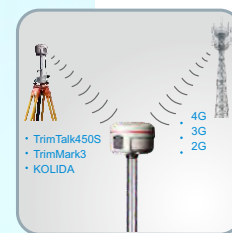
- Suitable for all kinds of jobs

- TrimTalk450S
- TrimMark3
- KOLIDA

4G
3G
2G

K9mini 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

K9mini 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

K9mini's intelligent and open platform makes the system performs more efficient and stable than traditional receiver. Since its launch in 2016, K9mini sold over 5000 units.

Other Features

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

• 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
Loading software framework...
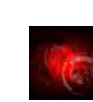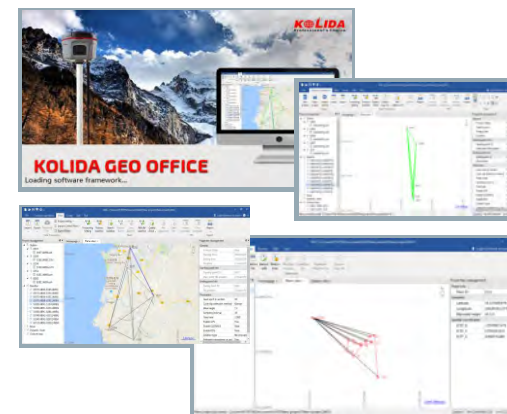
KOLIDA GEO OFFICE
**integrates static data processing and kinematic adjustment** *(New program)*

-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
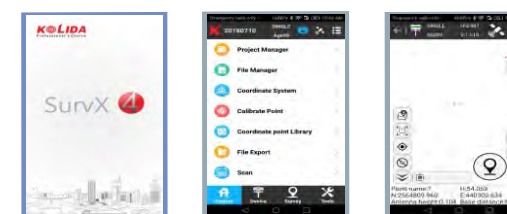
• Field Software
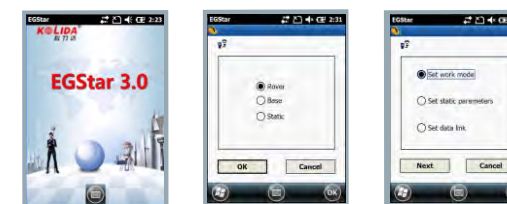
EGStar 3.0

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.
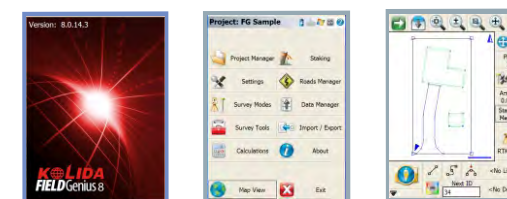
MicroSurvey FIELDGenius *(Need to purchase individually)*

Field Genius is a powerful survey data collection software from Canada. Advanced Roading, Surfacing, Slope Staking, Code Free Linework.

K 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.