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	
Network RTK	Horizontal: $\pm$8 mm + 0.5 ppm RMS	
	Vertical: $\pm$15 mm + 0.5 ppm RMS	
	RTK initialization time: 2~8s	

Physical		
Dimension	13.4cm x 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, 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, PCC EOT	
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 GNSS

K9 Mini Positioning System
Smarter and Stronger

- GPS | GLONASS | BEIDOU | GALILEO
- Bluetooth 4.0 Connectivity | Built-in NFC Chip
- Totally New Software EGstar
- Magnesium Alloy+ABS Housing | IP67 Proof | Weight 1kg
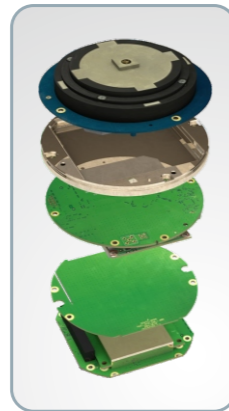
KOLIDA
KOLIDA INSTRUMENT

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K9 Mini
A New Honor 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.
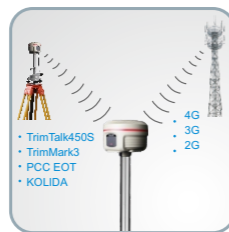
Key Features

- Full satellite constellations support

Equipped with the most powerful GNSS boards, the totally new K9 Mini can track most signals from all kinds of running satellite constellations.

- Integrated sensitive satellite antenna for optimized satellite tracking

Cooperating with ultra-powerful GNSS mainboard, K9 Mini is mounted new type of antenna that has stronger ability to track more signals from above.

- Versatility and flexibility functions

The built-in transceiving radio can transmit signal module to 1-5km away, or even further in good environment. TrimTalk450ST, TrimMark3 and PCC EOT are all compatible. 3.5G/GPRS Network module enables seamless real time connection with most brands' CORS station.

· TrimTalk450S
· TrimMark3
· PCC EOT
· KOLIDA
4G
3G
2G

11.8cm

- Bluetooth 4.0 technology, NFC function

The upgraded Bluetooth chip supports the connection to IOS, Android cell phone and other data collectors. The internal NFC chip can turn the complex Bluetooth connection into a simple touch.

- Smaller but stronger and smarter

13.4cm

1kg

With the innovative design, the total volume and weight of K9 Mini is only 1.02L and 1kg. K9 Mini integrates intelligent and open platform to make the system performs more efficient and stable. The power consumption is reduced and interference problem gets be solved in a very limited space.

- Easy to carry

New design package makes heavy field survey work easier.

■ Various Data Collectors Selectable

Polar X2 Handheld Controller
· WM6.5/Android5.0 above
· 1Ghz processor/1.3Ghz (Android)
· RAM512M/1G (Android)
· 5MP/8MP (Android)
· ROM 16GB, microSD expansion
· 72 channels GNSS chip
· 3.7V, 4200mAh, 6.5hrs
· 4.3inch, 480x800VGA
· WCDMA
· IP67

X11 Lite
· Windows Mobile 6.5
· 1Ghz CPU, RAM 512Mb
· ROM 8GB, SD expansion to 32GB
· Numeric keyboard
· Weight 600g only
· 7.2V removable Li-ion, 3400mAh
· 3.7inch 480x680VGA, LED backlighted
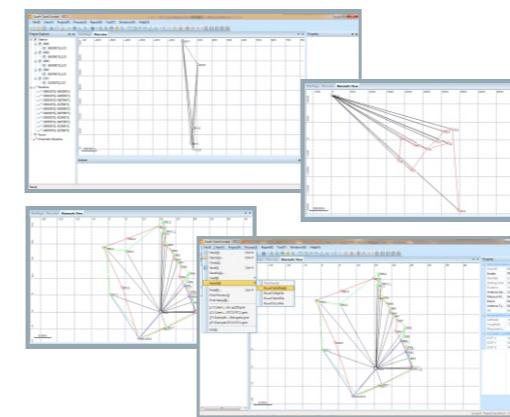· MIL-STD-810G and Ip67
· OTG function supported

Additional Funtion of X11 Pro
· 72 channels GNSS chip
· AutoForcus 5MP
· Navigation update rate 4Hz
· WCDMA communication module

■ KOLIDA Total Control Software

KTC is a new post-processing software that integrates static data processing and kinematic adjustment

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

Post-processing software: KOLIDA GNSS Processor

-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 All-In-One Software Engineering Star

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.
- At any time, you can check your hardware and software status, RTK working mode and switch screen freely.
- Easy to handle multiple RTK surveying with powerful, but friendly user interface.
- Support numerous file formats in export/import.

MicroSurvey FIELDGenius

Field Genius is a powerful survey data collection software from Canada. Advanced Roading, Surfacing, Slope Staking, Code Free Linework, Smart Points and GPS support and Live Graphics make FieldGenius the choice of organizations that value productivity. Multi-language is available.
(Need to purchase individually)