

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 (Baseline<30km)	Horizontal: ± 8 mm + 1 ppm RMS Vertical: ± 15 mm + 1 ppm RMS
Network RTK	Horizontal: ± 8 mm + 0.5 ppm RMS Vertical: ± 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°C ~ +60°C
Storage	-55°C ~ +85°C
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



KOLIDA
Professional's Choice

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ELITE K9mini

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



- 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

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



lite

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

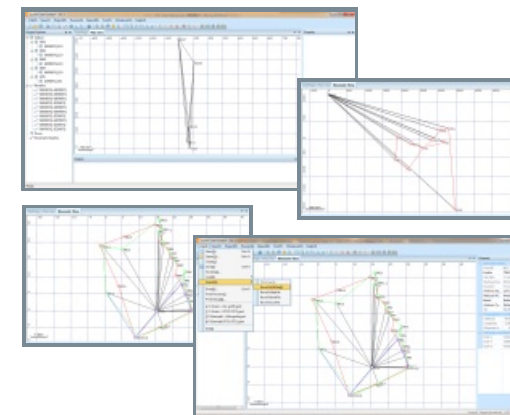


Pro

Additional Funtion of X11 Pro

- 72 channels GNSS chip
- AutoFocus 5MP
- Navigation update rate 4Hz
- WCDMA communication module

Post-Processing Software (Free of Charge)



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



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, Smart Points and GPS support and Live Graphics make FieldGenius the choice of organizations that value productivity. Multi-language is available.