SPECIFICATIONS

GNS	SS Performance	
Channels	896 (1760 channels is optional)	
GPS	L1C/A, L1PY, L2C, L2P, L5	
GLONASS	L1CA, L2CA, L2P, L3 CDMA	
BeiDou	B1I, B1C, B2a, B2I, B3 ¹¹	
Galileo	E1, E5a, E5b, E5 AltBoc	
QZSS	L1C/A, L2C, L5	
SBAS	Egnos, WAAS, GAGAN, MSAS,	
	SDCM (L1, L5)	
Navic	L5	
L-Band	Reserve	
Positioning Accuracy		
Code Differential	Horizontal: ±0.25m+1ppm	
GNSS Positioning	Vertical: ±0.50+1ppm	
SBAS Positioning	Typically<5m 3DRMS	
Fast Static and Static	Horizontal: ±2.5mm+0.5ppm	
	Vertical: ±5mm+0.5ppm	
Post Processing	Horizontal: ±8mm+1ppm	
Kinematic (PPK)	Vertical: ±15mm+1ppm	
Real Time Kinematic	Horizontal: ±6mm+0.5ppm	
(RTK)	Vertical: ±10mm+1ppm	
Network RTK (VRS,	Horizontal: ±6mm+0.5ppm	
FKP, MAC)	Vertical: ±10mm+1ppm	
RTK Initialization Time	7s	
Positioning Rate	1Hz-50Hz	
Inertial Measurement	Tilt Angle: up to 60 degrees	
	Accuracy: down to 2-5cm	
Data Formats		
Positioning Data	NMEA 0183, PSIC, PJK, Binary Code	
r comoning Data	RTCM 2.1, RTCM 2.3, RTCM 3.0,	
Differential Correction	RTCM 3.1, RTCM 3.2,CMR,CMR+	
Static	STH, Rinex 2, Rinex 3	
Network	Supported VRS, FKP, MAC, Ntrip	
	, ,	
Operation Mode		
Base	Internal or External radio\ Wifi	
Rover	Rover UHF\Rover Bluetooth	
Static	Static\PPK	
UHF Radio Chracteristics		
TX\RX	2 Watt Transmitting & Receiving	
Frequency Range	410-470MHz	
Protocols	Farlink\Trimtalk\SOUTH(KOLIDA)	
Channels	60 channels for Farlink protocol	
	100 1 1 5 11 1 1	

Size 13cm*8cm Weight 0.8kg Data Storage 4GB SSD internal storage Support external USB storage (up to 32 GB) Automatic cycle storage Changeable record interval Up to 20Hz raw data collection Communication 5 Indicator lights 1 Button 1 Type C USB port 1 5-PIN LEMO external power port 1 UHF antenna port Soc System WEB UI WIF: 802.11 b/g/n standard Bluetooth 4.2 standard and Bluetooth 2.1+EDR NFC Supported USB, FTP, HTTP data communication Voice Guide Intelligent voice technology provides status indication and operation guide Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and use define Environment Operating: -30°C to +70°C Storage: -40°C to +80°C Humidity 100% condensation Ingress Protection IP68 waterproof, sealed against sand and dust Shock Survive 2m pole drop on concrete Power Battery 7.4V, 6800mAh unremovable battery Battery Life Up to 12-15 hours in rover mode Fast Charge 4 hours charge to full power USB charge Type-c USB/Power Bank		Handriana
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Power Battery 7.4V, 6800mAh unremovable battery Battery Life Up to 12-15 hours in rover mode Fast Charge 4 hours charge to full power		and dust
Battery 7.4V, 6800mAh unremovable battery Battery Life Up to 12-15 hours in rover mode Fast Charge 4 hours charge to full power	Shock	Survive 2m pole drop on concrete
Battery 7.4V, 6800mAh unremovable battery Battery Life Up to 12-15 hours in rover mode Fast Charge 4 hours charge to full power		<u> </u>
Battery Life Up to 12-15 hours in rover mode Fast Charge 4 hours charge to full power		Power
Fast Charge 4 hours charge to full power	Battery	7.4V, 6800mAh unremovable battery
· ·	Battery Life	Up to 12-15 hours in rover mode
USB charge Type-c USB/Power Bank	Fast Charge	4 hours charge to full power
	USB charge	Type-c USB/Power Bank

Field Software







Field Genius

120 channels for other protocols



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K9X

Palm Size, Higher Efficiency!



GNSS Channels

Inertial Measurement Tilt Compensation

Compact 13 cm x 8 cm

GPS/GLONASS/Galileo/ BeiDou/QZSS/SBAS/Navic constellation support

Farlink UHF Radio up to 2 Watt TX 4 GB SSD

Internal Memory

Light Weight 0.8 kg

Bluetooth, Wi-fi, NFC wireless communications



Optimized for Use in Challenging Environments

The Newly Developed SERIES GNSS Engine Ensuring You Uncompromisable RTK performance





The X-Series GNSS Engine

The all new "X-Series" GNSS Engine and the advanced technologies inside improve your ability to measure in more place than ever before and allow you to carry on with the highest possible efficiency.





Multipath Effect Mitigation Technology

This feature is to disentangle direct signal and those reflected from nearby structures, it ensures the accurate result when you are measuring close to buildings or water area.





Anti-vibration Shock

This feature is for robust tracking during high vibrations and shocks. It increases the accuracy stability when you are working on the busy road or construction site or mining site where the heavy vehicles and machinery often pass by.









Tilt Measurement by Inertial Navigation

KOLIDA's 3rd generation Inertial Measurement Sensor "M8" is able to realize the real-time output of accurate tilt measurement data under high tilt angle and high dynamic attitude.





Electromagnetic Interference Mitigation

This feature is to help the receiver to keep obtaining correction data signal with high quality, even there is a interference source nearby.





Protection Against Ionospheric Disturbances

This feature is to make correction to lonospheric delay error, and upgrade the positioning accuracy when you are doing network RTK positioning over a long distance (10-40 km).



Constantly Updated GNSS Positioning Engine

K9X enjoys a powerful 896-channel GNSS Engine that delivers the more advanced satellite tracking algorithm.

This all-new Kolida "X-Series" GNSS Engine is able to track signal from 5 satellite constellations (GPS, Glonass, Beidou, Galileo, QZSS), process signal of more than 20 frequencies. When compared to traditional GNSS RTK, K9X is more capable to work in challenging environment and can provide more accurate result.



When GNSS receiver is using signal of bigger number of satellites, the data amount to send and receive by UHF radio increased greatly. Farlink technology is developed to send large number of data and avoid data loss.

Farlink technology improves the signal-catching sensitivity from -110db to -117db, so K9X can catch the very weak signal from a base station far way.



Smaller but More Durable

Thanks to the high-capacity battery and the intelligent power management plan, K9X can work up to 12 hours in RTK radio rover mode, up to 15 hours in static mode. The charging port is Type-C USB, users can choose KOLIDA quick charger or their own smartphone charger or power bank to recharge.

Ultra Light, Comfortable Experience

K9X is an ultra light GNSS receiver that leaves the competition behind. Its total weight is only 0.8 kg including battery, 40% even 50% lighter than a traditional GNSS receiver. The light-weight design reduces surveyor's fatigue, increase their mobility, is especially helpful to work in challenging environment.

