SPECIFICATIONS

	GNSS Performance		UHF Radio Chracteristics
Channels	2048	TX\RX	Transmitting and Receiving
GPS	L1C/A, L2P, L1C, L2C, L5	Frequency Range	410-470MHz
GLONASS	G1, G2, G3	Protocols	Farlink\ Trimtalk\ SOUTH(KOLIDA)
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b	Channels	60 channels for Farlink protocol
Galileo	E1, E5b, E5a, E6, E5AltBoc*		120 channels for other protocols
QZSS	L1C/A, L5, L1C, L2		
SBAS	L1, L5		Hardware
IRNSS	L5*	Size	156mm*78mm
L-Band*	B2b	Weight	1.3kg (dual batteries included)
	Desitioning Accuracy	Data Storage	8GB SSD internal storage
Positioning Accuracy		2 010	Support external USB storage (up to 32 GB)
Code Differential	Horizontal: ±0.25m+1ppm		Automatic cycle storage
GNSS Positioning	Vertical: ±0.50+1ppm		Changeable record interval
SBAS Positioning	Typically<5m 3DRMS		Up to 20Hz raw data collection
High Precision Static	Horizontal: ±3mm+0.1ppm	Communication	4 Indicator lights
	Vertical: ±3.5mm+0.4ppm		1 Button
Fast Static and Static	Horizontal: ±2.5mm+0.5ppm		1 Type C USB port (USB2.0)
	Vertical: ±5mm+0.5ppm		1 5-PIN LEMO external power port (to RS232)
Post Processing	Horizontal: ±8mm+1ppm		1 UHF antenna port
Kinematic (PPK)	Vertical: ±15mm+1ppm		1 Micro SIM card slot
Real Time Kinematic	Horizontal: ±5mm+0.5ppm		Linux OS
(RTK)	Vertical: ±10mm+0.5ppm		WEB UI
Network RTK	Horizontal: ±5mm+0.5ppm		WIFI: 802.11 b/g/n standard
(VRS, FKP, MAC)	Vertical: ±10mm+0.5ppm		Bluetooth 4.2 standard and Bluetooth 2.1+EDR
RTK Initialization	Time 2-8s, reliability >99.99%		Network: 4G LTE\3.5G WCDMA\2G GSM\GPR
Positioning Rate	1Hz-20Hz		NFC
Tilt Sensor	Tilt Angle: up to 60 degrees		Supported USB, FTP, HTTP data communicatio
(Inertial Measurement	Accuracy: down to 2cm	Voice Guide	Intelligent voice technology provides status
Unit with E-Bubble)	(Typically less than 10mm+0.7mm/°tilt)		indication and operation guide
	Data Formats		Chinese, English, Korean, Russian, Portuguese
			Spanish, Turkish and user define
Positioning Data	NMEA 0183, PSIC, PJK, Binary Code	Environment	Operating: -30°C to +70°C
Differential Correction	RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1		Storage: -40°C to +80°C
	RTCM 3.2 (MSM),CMR,CMR+	Humidity	100% condensation
Static	STH, Rinex 2, Rinex 3	Ingress Protection	IP68 waterproof, sealed against sand and dust
Network	Supported VRS, FKP, MAC, Ntrip	Shock	Survive 2m pole drop on concrete
	Operation Mode		Power
Base	Base Internal Radio\ Base Network\	Battery	7.2V, 3400mAh battery, two units, hot swappabl
	Base External Radio\ Base WIFI	Battery Life	Base up to 10 hours
Rover	Rover UHF\ Rover Network\ Rover Bluetooth		Rover up to 15 - 20 hours
Static	Static\ PPK		Static up to 20 hours







- * 2048 GNSS channels, best-in-class signal tracking capability
- * GPS + GLONASS + BDS + GALILEO + QZSS
- * Centimeter level correction data through L-band
- * 2 watt Farlink radio, up to 8-10 km working range
- * Inertial Measurement up to 60° tilt angle down to 2cm accuracy
- * Dual battery hot-swappable, Up to 20 hours working



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K10 Pro X The Power to Be Your Best



Craftsmanship and Quality, The Power To Be Your Best.

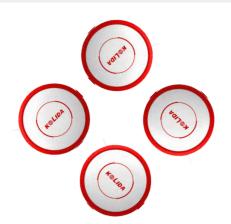


Quality Materials & State-Of-Art Features

Add them together, Multiply their power.

A brand new powerful UHF radio. An inertial measurement sensor so responsive and more accurate. The world's leading GNSS chip. Exceptional durability. And a huge leap in battery life.

K10 Pro X, the power to be your best.



Top Cap and Seal Ring

Long service life, Enhanced signal reception.

The top cap of K10 Pro X is made of PBT + PC materials, which provides a good performance of fire prevention, anti-deformation. GNSS signal will be received evenly from all directions.

A silicone seal ring is placed overhead to extend the service life. It withstands high temperature, resists wear and corrosion. The diamond shape texture prevents the receiver from falling off on your hands.



Bodywork and Colorful Indicator Light

The extraordinary robustness you can rely on.

The robust bodywork is made of magnesium alloy AZ91D, which offers high strength, excellent heat dissipation. A metallic paint surface treatment has been applied to the lower part of K10 Pro X, to prevent the receiver from scratching, collision. rustiness.

The four-color indicator lights of K10 Pro X offer high brightness, is easy to identify in both day and night.



Power System You Can Relay On

Safe-lock, Hot Swap, Up to 20 hours working.

The power consumption of K10 Pro X maybe is the least in its class. Two batteries can provide up to 20 hours working time when it runs as a rover. K10 Pro X also can be recharged by external power source via Type-C port.

A reinforced battery compartment has been designed for K10 Pro X, each compartment has a hinged seal door with rotary switch, totally prevent the "drop off".

The Only Thing That Changed Is Everything.

2048 channels

Capture satellites As many as possible

In a period of time, some GNSS satellites disappear from horizon and new satellites appear. Bigger number of satellites a GNSS receiver tracks at a time, better accuracy the GNSS can calculate. To quickly capture the new satellites that appear in the sky, GNSS receiver must reserve a big number of channels.

K10 Pro X is capable to track signal from 5 satellite constellations (GPS, Glonass, Beidou, Galileo, QZSS), process signal of up to 16 frequencies. When compared to traditional GNSS RTK, K10 Pro X's accuracy is higher, get fixed solution faster, the working performance in forest and city center is better.

Farlink Radio

Transmit mass data Small power consumption

When GNSS receiver is using signal of bigger number of satellites, the data amount to send and receive by UHF radio increased greatly. The traditional radio protocol is unable to meet the demand. 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 K10 Pro X can catch the very weak signal from a base station far way.

The 3rd generation Tilt Sensor

Faster initialization More accurate data output

KOLIDA's 3rd generation tilt sensor "M8" integrates Inertial Measurement Unit with Electronic Bubble. The E-Bubble can directly display on the software if the pole is vertical. The point will be recorded automatically when the pole is levelled.

- 200 Hz high frequency calculation, faster initialization speed
- · Calibration free, immune to the effect of earth magnetic field
- · Coordinate double-check before output, result is more accurate
- Tilt angle is up to 60°, accuracy is down to 2cm.

kFill

Save the RTK/ CORS Signal Loss

KOLIDA kFill technology is able to provide a 5 minutes sustainable high accuracy service during temporary RTK or CORS signal coverage outages. After RTK and CORS signal recovers, receiver will switch to real-time corrections seamlessly.

