SPECIFICATIONS

GNSS Performance	
Channels	1598
GPS	L1C/A, L2P, L1C, L2C, L5
GLONASS	G1, G2, G3
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b
Galileo	E1, E5b, E5a, E6, E5AltBoc*
QZSS	L1C/A, L5, L1C, L2
SBAS	L1, L5
IRNSS	L5*
L-Band*	B2b

Positioning Accuracy

Code Differential GNSS Positioning	Horizontal: ±0.25m+1ppm Vertical: ±0.50+1ppm
SBAS Positioning	Typically<5m 3DRMS
High Precition Static	Horizontal: ±3mm+0.1ppm Vertical: ±3.5mm+0.4ppm
Fast Static and Static	Horizontal: ±2.5mm+0.5ppm Vertical: ±5mm+0.5ppm
Post Processing Kinematic (PPK)	Horizontal: ±8mm+1ppm Vertical: ±15mm+1ppm
Real Time Kinematic (RTK)	Horizontal: ±8mm+1ppm Vertical: ±15mm+1ppm
Network RTK (VRS,	Horizontal: ±8mm+0.5ppm
FKP, MAC)	Vertical: ±15mm+0.5ppm
RTK Initialization Time	Time 2-8s, reliability >99.99%
Positioning Rate	1Hz-20Hz
Inertial Measurement	Supporting walk to activate IMU Tilt Angle: up to 60 degrees Accuracy: down to 2cm (Typically less than 10mm+0.7mm/°tilt)
Data Formats	
Positioning Data	NMEA 0183, PSIC, PJK, Binary Code

Operation Mode	
Network	Supported VRS, FKP, MAC, Ntrip
Static	STH, Rinex 2, Rinex 3
Differential Correction	RTCM 3.1, RTCM 3.2, CMR, CMR+
	RTCM 2.1, RTCM 2.3, RTCM 3.0,

Base	Base Internal Radio∖ Base External Radio (wireless Radio)∖ Base wifi
Rover	Rover UHF\ Rover Bluetooth
Static	Static\ PPK

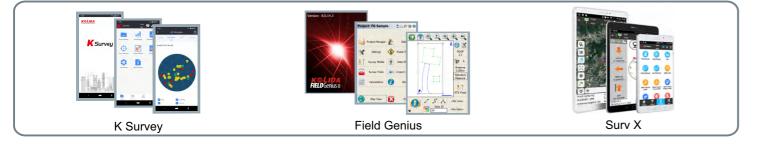
UHF Radio Characteristics

TX\RX	Transmitting and Receiving
Frequency Range	410-470MHz
Protocols	Farlink\Trimtalk\SOUTH(KOLIDA)
Channels	60 channels for Farlink protocol
	120 channels for other protocols

Hardwai

	Thai u wai e
Size	131mmX80mm
Weight	800g
Data Storage	4GB SSD internal storage Support external USB storage (up to 32GB) Automatic cycle storage Changeable record interval Up to 20Hz raw data collection
Built-in Camera	2MP
Camera View Angle	75°
Communication	5 Indicator lights (4 in front panel, one at bottom) 1 Button 1 Type C USB port 1 UHF antenna port SOC OS WEB UI WIFI: 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 user 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

Power		
Battery	7.4V, 6800mAh unremovable battery	
Battery Life	10-15 hours	
Fast Charge	4 hours charge to full power	
USB recharge	Power Bank for recharging/ Power Bank for external power supply	



K LIDA Professional's Choice

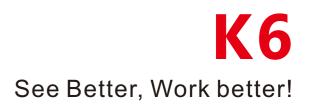
Field Software

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K LIDA Professional's Choice



- Live-view Stakeout, Helps You to Capture Points Perfectly
- 1598 GNSS Channels, Best-in-class Signal Tracking Capability
- k-Fill, Keep Fixed Solution When Losing Correction Signal
- Farlink Radio with Optimized Working Range
- New IMU Program, Walking to Initialize
- Weights Only 0.8 kg, IP68 Water-Dust Proof Level





AR GNSS + New IMU, More Intelligence, Higher Efficiency!





Stakeout Intuitively with Live-view Video Display

This new feature combines real-time image display with RTK positioning. K6 captures real-time video through its built-in camera, and users can directly see the points to be setout on the collector screen, which is accurate and intuitive.





AR technology superimposes a virtual guide-line and distance numbers on the real-time video display. Users do not need to recognize the directions themselves, they only need to follow the guide-line to find the point to be setout, which saves time and effort.





Simpler and Easier-to-Use Inertial Tilt Measurement

Many GNSS RTK systems require users to perform complex settings and calibration before doing inertial tilt measurement.

After the latest program was applied to K6, users only need to walk a few steps to activate the inertial sensor. This improvement makes measurements simpler and faster.





K6 is capable to track signal from 5 satellite constellations (GPS, Glonass, Beidou, Galileo, QZSS), process signal of up to 21 frequencies.

When compared to traditional GNSS RTK, K6's accuracy is higher, get fixed solution faster, the working performance in forest and city center is better.



"kFill" Save **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.



Ultra Light, **Comfortable Experience**

K6 is an ultra light GNSS receiver that leaves the competition behind. Its total weight is only 0.80 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.

"Farlink" Radio **Transmitting and Receiving**

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 K6 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, K6 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 to recharge. Power bank also can be used as an external power supply.

