



All Constellations and More Channels

With 336 GNSS channels solution, the usability of Glonass & Galileo satellites is greatly improved, so in harsh environment K1 PRO is able to track more satellite than other receivers and provide more reliable positioning result.

More Powerful and More Durable

Thanks to the 3W Farlink radio, when it works as an UHF base station K30 Pro is able to transmit correction data farther than others, in optimal condition the working range can be 10 to 15 km.

The shock-resistant frame, water-proof frame all have been enhanced, now the overall proof level is IP68.

Superior Endurance, Up to 25 hours working

The newly developed power management system allows K30 Pro to work for 10 to 25 hours and can be recharged by a type-C connector.

Color Touch Screen, Makes Workflow Simpler

Users can operate K30 Pro by touch screen and key buttons, easy and fast.

Star-Fill

This function will let you continue working a few minutes when radio or mobile signal is becoming very poor or even lose in blind area, the accuracy is down to 2 cm.

Star-Link Correction via L-band

2cm accuracy Star-Link correction service is available on K30 Pro. After subscribing to it, surveyor can work almost anywhere in the world without a base station or VRS network.

K30 Pro

Improving Never Stops

K30 Pro is designed to enhance your performance in the field survey and to provide the most reliable positioning result.

It integrates a 336 channels world leading GNSS positioning engine, a high precision IMU, a long range UHF radio, and a new interact operating system.

More features are to be discovered by you...

SPECIFICATIONS

| GNSS Performance | |
|------------------|--|
| Channels | 336 |
| GPS | L1C/A, L1C, L2C, L2E, L5 |
| GLONASS | L1C/A, L1P, L2C/A, L2P, L3 |
| BeiDou | B1, B2, B3, B1C, B2A |
| Galileo | E1, E5A, E5B, E5AltBOC, E6 |
| QZSS | L1C/A, L5 |
| SBAS | L1C/A, L5 |
| IRNSS | L5 |
| L-Band | Star-fill: 5 minutes, down to 2 cm accuracy Star-Link: down to 2 cm accuracy (need subscription) |

| Positioning Accuracy | |
|---------------------------------|--|
| Code Differential | Horizontal: $\pm 0.25m + 1ppm$ |
| GNSS Positioning | Vertical: $\pm 0.50 + 1ppm$ |
| SBAS Positioning | Typically $< 5m$ 3DRMS |
| High Precision Static | Horizontal: $\pm 3mm + 0.1ppm$ Vertical: $\pm 3.5mm + 0.4ppm$ |
| Fast Static and Static | Horizontal: $\pm 2.5mm + 0.5ppm$ Vertical: $\pm 5mm + 0.5ppm$ |
| Post Processing Kinematic (PPK) | Horizontal: $\pm 2.5mm + 1ppm$ Vertical: $\pm 5mm + 1ppm$ |
| Real Time Kinematic (RTK) | Horizontal: $\pm 8mm + 1ppm$ Vertical: $\pm 15mm + 1ppm$ |
| Network RTK (VRS, FKP, MAC) | Horizontal: $\pm 8mm + 0.5ppm$ Vertical: $\pm 15mm + 0.5ppm$ |
| RTK Initialization | Time 2-8s, reliability $> 99.99\%$ |
| Positioning Rate | 1Hz-20Hz |
| Inertial Measurement | Tilt Angle: up to 60 degrees Accuracy: down to 2 to 5cm (Typically less than $10mm + 0.7mm/^\circ$ tilt) |

| Data Formats | |
|-------------------------|--|
| Positioning Data | NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOFF |
| Differential Correction | RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, CMR, CMR+ |
| Static | STH, Rinex 2, Rinex 3 |
| Network | Supported VRS, FKP, MAC, Ntrip |

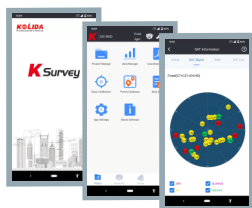
| Operation Mode | |
|----------------|--|
| Base | Base Internal Radio\ Base Network\ Base External Radio\ Base WIFI |
| Rover | Rover UHF\ Rover Network\ Rover Bluetooth |
| Static | Static\ PPK |

| UHF Radio Characteristics | |
|---------------------------|--|
| TXIRX | Up to 3W Transmitting and Receiving |
| Frequency Range | 410-470MHz |
| Protocols | Farlink\ Trimtalk\ SOUTH(KOLIDA) |
| Channels | 60 channels for Farlink protocol 120 channels for other protocols |

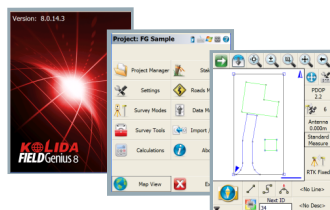
| Hardware | |
|--------------------|--|
| Size | 165mm*108mm |
| Weight | 1.35kg |
| Data Storage | 16GB SSD internal storage Support external USB storage (up to 64GB) Automatic cycle storage Changeable record interval Up to 20Hz raw data collection |
| Communication | 1.3 inches colorful touch screen 3 Indicator lights, 2 Key Buttons 1 Type-C USB port 1 5-PIN LEMO external power port 1 UHF antenna port 1 PPS output port 1 SIM card slot Linux OS, WEB UI, WIFI: 802.11 b/g/n standard Bluetooth 4.2 standard and Bluetooth 2.1+EDR NFC, Network: 4G LTE\3G WCDMA\2G GSM 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 $+70^\circ\text{C}$ Storage: -40°C to $+80^\circ\text{C}$ |
| Humidity | 100% condensation |
| Ingress Protection | IP68 waterproof, sealed against sand and dust |
| Shock | Survive 2m pole drop on concrete |

| Power | |
|--------------|---|
| Battery | 7.2V, 10000mAh unremovable battery |
| Battery Life | Base up to 10 -14 hours Rover up to 20 - 27 hours Static up to 25 - 30 hours (when environment temperature is 25°C) |
| Fast Charge | 3.5 - 4 hours charge to full power |
| USB recharge | Supported |

FIELD SOFTWARE



K Survey



Field Genius



Surv X