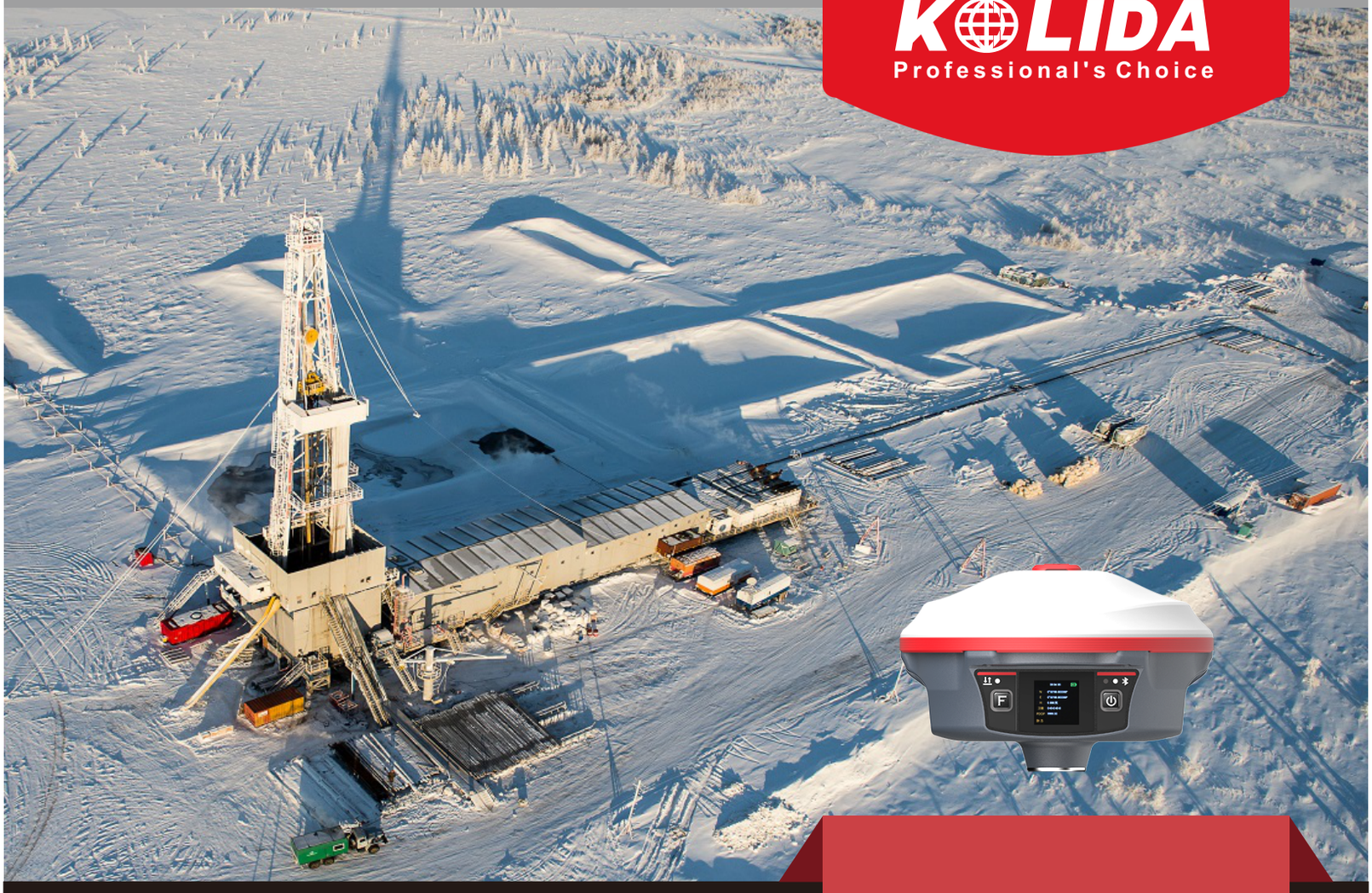
KOLIDA
Professional's Choice



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...

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.

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 GNSS Positioning	Horizontal: ±0.25m+1ppm Vertical: ±0.50+1ppm
SBAS Positioning	Typically<5m 3DRMS
High Precision 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: ±2.5mm+1ppm Vertical: ±5mm+1ppm
Real Time Kinematic (RTK)	Horizontal: ±8mm+1ppm Vertical: ±15mm+1ppm
Network RTK (VRS, FKP, MAC)	Horizontal: ±8mm+0.5ppm Vertical: ±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/°tilt)

Data Formats	
Positioning Data	NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF
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

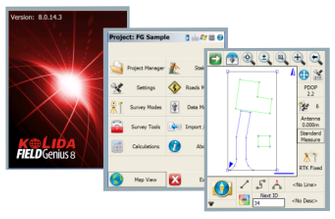
UHF Radio Chracteristics	
TX\RX	Up to 3W Transmitting and Receiving
Frequency Range	410-470MHz
Protocols	Farlink\ Trimtalk\ SOUTH(KOLIDA)
Channels	60 channels for Farlink protocol 120 channels for other protocols

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℃ to +70℃ Storage: -40℃ to +80℃
Humidity	100% condensation
Ingress Protection	IP68 waterproof, sealed against sand and dust
Shock	Survive 2m pole drop on concrete Vibration resistance according to MIL-STD 810 standard

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℃)
Fast Charge	3.5 - 4 hours charge to full power
USB recharge	Supported

FIELD SOFTWARE

K Survey



Field Genius

Surv X

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