SPECIFICATIONS

Satellite Signals Tracked Simultaneously	
Signal tracking	336 channels
	BDS B1,B2,B3
	GPS L1C/A,L1C,L2C,L2E,L5
	GLONASS L1C/A,L1P,L2C/A,L2P,L3
	QZSS L1C/A,L1 SAIF, L1C,L2C,L5,LEX
	SBAS L1C/A,L5
	Galileo Glove-A and Glove-B, E1, E5A, E5B, E5AltBOC, E6
MSS L-Band	Trimble RTX
GNSS features	Positioning output rate: 1Hz~50Hz
	Initialization time: <10s
	Initialization reliability: >99.99%

Positioning precision		
Code differential GNSS positioning	Horizontal: $\pm$0.25m+1ppm	Vertical: $\pm$0.50m+1ppm
	SBAS positioning accuracy:typically<5m 3DRMS	
High-Precision Static	Horizontal: $\pm$2.5mm+0.1ppm	Vertical: $\pm$3.5mm+0.4ppm
Static and Fast Static	Horizontal: $\pm$2.5mm+0.5ppm	Vertical: $\pm$5mm+0.5ppm
Real-time kinematic surveying	Horizontal: $\pm$8mm+1ppm	Vertical: $\pm$15mm+1ppm
Network RTK	Horizontal: $\pm$8mm+0.5ppm	Vertical: $\pm$15mm+0.5ppm
RTX	Horizontal: $\pm$2cm	Vertical: $\pm$5cm
RTK initialization time	2~8s	

User interaction	
Operating Time	Linux
Buttons	Double Button Operation
Indicators	Five Indicator Lights
Web UI	Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi or USB
Voice guide	iVoice intelligent voice technology provides status and voice guide
	Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define
Secondary development	Providing secondary development kit

Hardware performance	
Dimension(WxH)	143mmX130mm
Weight	1.43kg (2 Batteries included)
Material	Magnesium aluminum alloy shell
Operating	-45°C~+70°C
Storage	-55°C~+85°C
Humidity	100% Non-condensing
Waterproof	IP67 standard, protected from short time immersion to depth of 1m
Dustproof	IP67 standard, fully protected against blowing dust
Shock and vibration	Withstand 2 meters pole drop onto the cement ground naturally
Power Supply	9-25V DC, overvoltage protection
Battery	Rechargeable, Lithium-ion battery, 7.4V, Dual batteries hot-swappable, Battery Rod included in Base Receiver
Battery life	Dual batteries:>14h (static mode), >10h (internal UHF base mode), >12h (rover mode)

Communications	
I/O port	5PIN LEMO external power port+RS232, 7PIN external USB(OTG)+Ethernet
	1 radio antenna interface, SIM card slot
Wireless modem	Built-in radio, 1W/2W/3W switchable, typicall work range 8km
	Barrier-Free" Measurement Technology: Repeater/ Router/ CSD mode
Frequency Range	410-470MHz
Communication Protocol	TrimTalk450s, TrimMark3, SOUTH (KOLIDA),TRANSEOT, Satel
Cellular Mobile Network	WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE
Double Module Bluetooth	BLEBluetooth 4.0 standard, support for android, ios cellphone connection
	Bluetooth 2.1+EDR standard
NFC Communication	Realizing close range (shorter than 10cm) automatic pair between receiver and controller
	(controller equipped NFC wireless communication module needed)
External Devices	Optional external GPRS/EDGE dual-mode communication module, switchable;
	allow to connect external WLAN card

WIFI	
Standard	802.11 b/g standard
WIFI Hotspot	The WIFI hotspot allows smart mobile terminal to connect and access to the internal webserver to control
	and monitor receiver
WIFI data link	To work as the datalink that receiver is able to broadcast and receive differential data via WIFI

Data storage/ Transmission	
Data Storage	16GB SSD internal storage
	Support external USB storage (up to 32 GB) and automatical cycle storage
	Changeable record interval, up to 50Hz raw data collection
Data Transmission	USB data transmission, supporting FTP/HTTP data download
Data Format	Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
	GPS output data format: NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF
	Network model support: VRS, FKP, MAC, fully support NTRIP protocol

Inertial sensing system	
Tilt survey	Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle
	of the centering rod
Electronic bubble	Controller software display electronic bubble, checking leveling status of the centering rod real time
Thermometer	Built-in thermomter sensors, adopting intelligent temperature control technology which can mornitor and
	adjust the temperature of receiver in real time

KOLIDA
Professional's Choice

INFINITY RTK

K5Plus+

Enhanced Satellite Signal Tracking Ability

2cm Accuracy CenterPoint RTX

Dual Battery Hot-swappable

External battery rod

Work Faster, Wait Less.

The Maxwell 7 GNSS engine inside K5plus+ provides an ultra-fast positioning speed, typically it starts tracking satellite signal within 5 seconds after turning on, coordinate can be acquired within 10 seconds.
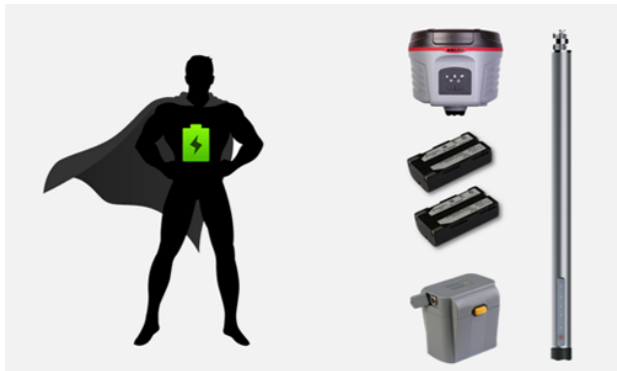
Improved Reliability Under Challenging Environment

With 336 channels solution, the usability of GLONASS & GALILEO satellites is greatly improved, so in harsh environment K5plus+ is able to track more satellites than the last generation receivers and provide more reliable positioning result.

38 satellites tracked by 336 channels receiver

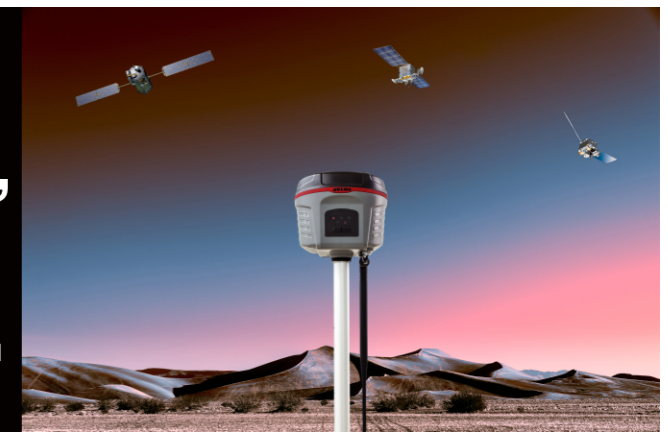17 satellites tracked by 220 channels receiver

Increased Working hours

• Two units of 3400 mAh battery hot-swappable
• 6800 mAh Battery Rod included in Base receiver set
• External Battery Case (optional)

New app. New Productivity

SurvX Android

Windows CE data controller is too old technology? No problem. Simply download SurvX App on your smart phone or tablet. Enjoy the smooth operation of Android platform !

Seamless Connection
• NFC
• Saving-Time Bluetooth Search
• Auto Connection

Intuitive interactive design
• Reducing mistakenly touching
• User define program menu
• Signal strength graphic display

Rich & Practical Programs
• CAD function & Line work
• 3D display mode
• Road & Power line program

Creativity
• Saving & Sharing coordinate system by QR code
• Data recovery & Encryption function
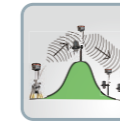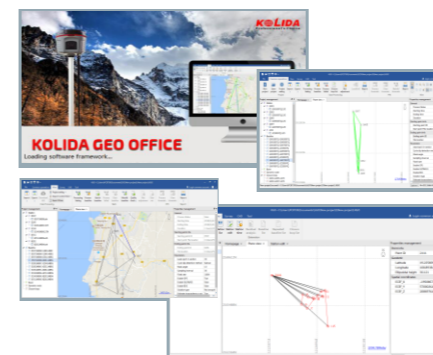• Support Google map and other base map

2cm Accuracy L-Band Correction, Infinite Freedom.

CenterPoint RTX correction service is available now! After subscribing to it, surveyor can work almost anywhere in the world without a base station or VRS network.

Other Features

• Linux OS & 16G SSD Storage
• Web UI & WIFI
• OTG field data download
• Tilt Survey
• Electronic bubble
• Bluetooth 4.0
• NFC
• SMS remote control

Barrier-free measurement
To extend radio or VRS RTK working range by 3 creative working modes

Long Range Radio Link
SDL400 built-in radio typically works for a 7-8 km range, cover 200 sq.km

Anti-interference
K5plus+ can work close to power plant, transformer substation, mobile signal tower and other interference source.

The best signal in town
4G network module enjoys fast and stable data transmission.

Data Collector. Simply Trustable

T17N
• Windows Mobile 6.5
• 1Ghz CPU, RAM 512MB
• 1GB ROM, Extendable to 32GB
• 3.7V, 6500mAh removable Li-ion
• 3.7 Inch, 480X640VGA
• WCDMA
• Include EGSTAR3.0

H3PLUS
• Android 6.0
• Quad-core 1.3GHz CPU, 2GB RAM
• 4.3 Inches, WVGA 800X480dpi
• 8 megapixel camera with auto focus
• 6500mAh, up to 10Hours
• Dual SIM Card
• 4G FDD TDD network, 3G WCDMA
• GPS\GLONASS\SBAS\A-GPS
• Include EGSTAR

Post-processing SW. Free of Charge

KOLIDA GEO Office
Integrates static data processing and kinematic data adjustment

Intelligent
• Antenna manager with popular receiver types.
• Fast processing and clear display
• Manually edit and filter satellite data for best result
• Update online.

Versatile
• Compatible with numerous data format.
• Export abundant types of report.
• Transformable to RINEX format