SPECIFICATIONS

KOLIDA
Professional's Choice

K86+
Dual-Frequency Static Solution

K86+ is the new generation of dual-frequency static GPS receiver of KOLIDA, this receiver combines the advantages of KOLIDA Static products, following advanced technology and the concept of continuous innovation, to bring the most advanced surveying solution to surveyors. By offering higher accuracy and more reliability, it makes surveying work easier and simpler.

Satellite signals tracked simultaneously	
GPS	Simultaneous L1 C/A, L2E, L2C, L5
GLONASS	Simultaneous L1 C/A, L1 P, L2 C/A (GLONASS M Only), L2 P, L3
Channel	Independent 72 channels
Tracking signal	Dual frequency L1/L2
Measurements	
Static horizontal accuracy	±2.5mm+1ppm
Static vertical accuracy	±5mm+1ppm
Stand alone accuracy	1.5m(CEP)
Initialization reliability	typically >99.9%
Initialization time	typically <10s
Baseline range	≤30km
Communications and Data Storage	
Communication	USB 2.0/COM Port (RS-232)
Memory	Built-in 4GB (extendable up to 32GB)
Data Logger	Built-in
Physical	
Dimensions (L x W x H)	165mm x 168mm x 122mm (6.5in x 6.6in x 4.8in)
Weight	1.8kg (including inbuilt battery)
Environmental	
Operating	-45℃ ~ +60℃(-49F ~ +140F)
Storage	-55℃ ~ +85℃(-67F ~ +185F)
Humidity	100%, condensing
Waterproof/Dustproof	IP67 standard immersion to depth of maximum 1m (3.28ft) and against blowing rain or blowing dust
Shock and vibration	Designed to survive a 2.5m (8.2ft) pole drop onto concrete
Electrical	
Battery life	30 hours for built-in battery (varies with temperature and working mode)
Batteries	Built-in double lithium-Ion batteries
Charging time	9 hours
Power	2W
External power input	12V ~ 15V DC
Charging Voltage	110~240V AC
Remarks	

Measurement accuracy and operation range might vary due to atmospheric conditions, signal multipath, obstructions, observation time, temperature, signal geometry and number of tracked satellites.
Specifications subject to change without prior notice.

STANDARD CONFIGURATION

GNSS receiver	1PC
Carrying case & carrying bag	1PC
Tribrach & adapter	1PC
Receiver Charger	1PC
Height Measuring Plate	1PC
Measuring Tape & Connector	1PC
Multi-communication Cable	1PC
Power Cable	1PC

Dealer Info

- 72 channels, GPS & Glonass
- Dual Frequency
- Built-in Controller with OLED Screen
- Outstanding Waterproof Capability
- Extremely Rugged Housing

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KEY FEATURES

Dual-Frequency and Dual-Constellation GNSS Receiver
With the benefits of low power consumption and compact form factor, professional Dual-Frequency mainboard, GPS+GLONASS tracking, this receiver will make the static survey efficient and easy to integrate.

Advanced OLED Screen
Upgraded from the LCD screen of the former model, this receiver is installed with a more attractive one, 1.54' OLED. Mode settings and status display are easily acknowledged from the screen, yet it features largely in high brightness and low power consumption, which is just tailored to the tough fieldwork.

Work All Day Long
K86+ has a 10,000 mAh battery. It offers 30 hours of static measurement. You don't need to stop working for battery change.

Top Level Protection
The body of K86+ is a one-piece casting of special alloy, This unique construction protests the inner components from water, dirt and salt, and other nasty things in the field that eventually eat up a instrument.

Huge Internal Memory and Data Backup
The 4GB internal memory capacity allow mass storage of measured data for long time collection and can record data individually, which is of great convenience for static survey.

APPLICATION

It's an ideal yet affordable solution for static control survey, and the dual-frequency, OLED reading, metal housing of this rugged receiver product will definitely benefit you a great deal in terms of positioning speed and accuracy.

KOLIDA TOTAL CONTROL
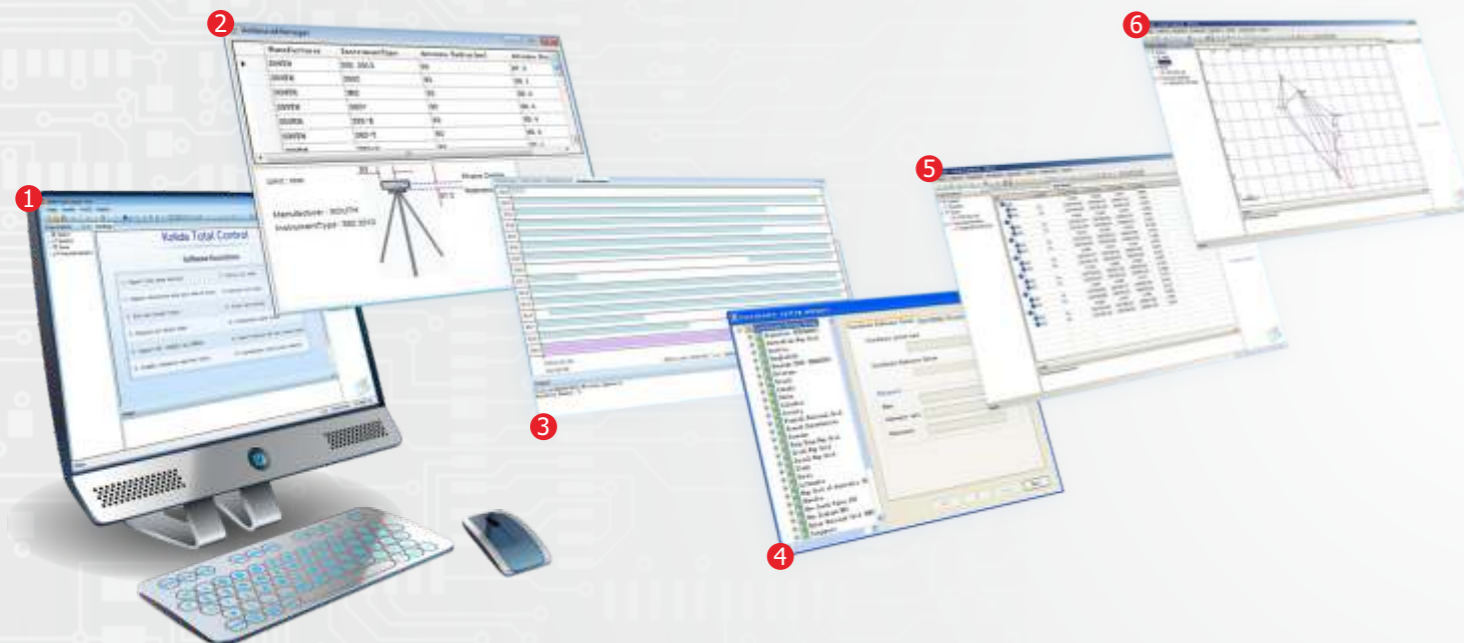
❶ All-in-one processing system, KOLIDA TOTAL CONTROL uses the latest GNSS processing techniques to get the most out of your GNSS data. Depending on your fieldwork methodology, the software will assist you with processing Static, Rapid static, Stop&go and RTK result check.

❷ Raw data in KOLIDA data format STH, or other popular formats like Rinex, SP3 and Brdc are all importable into KTC. User-defined antenna edit module allows users to add antenna information of other brand receivers flexibly for a wider compatiblility.

❸ Support processing even 24 hours or longer observation data from GPS, GLONASS and newly running COMPASS. Outstanding processing quality and more accurate cycle-slip detection can be achieved. Full processing reports for baselines, quality checking, and network adjustment will be generated for each processing project

❹ Powerful coordinate system dictionary to meet different requirement, meanwhile you can user define a coordinate system with local parameters.

❺ Compare and check the post processed kinematic result with RTK data. With such function, you can have a view of the precision of PPK in KTC software.

❻ The kinematic view not only shows you the tracks of stop and go survey, but also gives you an idea of the accuracy of result. After post processing, different colors mean different solution status processed by KTC (black-SPP red-RTD green-FLOAT blue-FIXED).