

## Surpad4.0 Field Software



### Graphical Photo Annotation

The measurement points are photographed and marked in real time, the attribute record is more convenient, and the field is easier to find.

### Easy Earthwork Calculation

A variety of earthwork measurement algorithms, the amount of filling and excavation is measured, and assists on-site quick decision making.

### Fool-like One-click Help

The software has a built-in wizard-based help module, a variety of functions with one-click help, the software is no longer complicated, and measurement is easier.

### Mobile CAD platform

Powerful CAD function, field measurement data field connection, multiple CAD graphics field direct calculation and drawing, complex line type field CAD direct processing, support DXF file import and export.

### Powerful Road Function Module

Support direct import of road straight music table, support line element method, intersection method input, cross section, slope stakeout, map preview, etc.

### Convenient Parameter QR Code Sharing

Supports 2D code sharing such as conversion parameters, coordinate system and configuration set, which is convenient and quick.

### Practical Coordinate Frame Conversion

Software supports direct conversion of coordinate systems in some countries.

### New UI design

More reasonable page function distribution, simple and beautiful software operation interface, support interface style switching, icon hiding and other functions.

### Internationalized Global Coordinate System

Support the world's commonly used 11-investment mode, built in more than 1600 coordinate systems ove one hundred of countries.



Handheld Specification

OS	Google Android 9.0
GNSS	GPS/BDS/GLONASS /Galileo , SBAS
Accuracy	Standalone : 2-5m
Processor	8Core 2.0GHz
Storage	3G+32GB
Extension	Max 128 GB
Display	5 inch, 720 x 1280, SLR 400 nits
Keypad	Full Numeric Keypad
Nertwork	4G Full Netcom
Battery	3.8V . 5200mAh swappable, 18W PD charging
Interface	Type C, Support OTG
SIM Slot	Dual SIM
Protection	IP67

## Product Specification

## G970II Pro

Model	G970II Pro	
GNSS	Channel	800
	Singals	BDS: B1, B2, B3 GPS: L1CA, L1P, L1C, L2P, L2C, L5 GLONASS: G1, G2, P1, P2 GALILEO: E1BC, E5a, E5b QZSS: L1CA, L2C, L5, L1C SBAS: L1 CA, L5; L-Band
Accuracy	Static	H 2.5mm±1ppm, V 5mm±1ppm
	RTK	H 8mm±1ppm, V 15mm±1ppm
	Tilt	2cm ( Tilt Angel at 60° )
	ATLAS H10	8cm
	Initialization Time	8s
	Initialization Reliability	99.9%
System	OS	Linux
	Storage	8GB , support MicroSD extension
	WiFi	802.11 b/g/n
	Bluetooth	V2.1+EDR/V4.1dual, Class2
	E-Bubble	Support
	Tilt Surveying	inoscultation,400Hz Measurement Update Rate
	Centering	No need cetering ,and no need surveying pole to center
Data Link	Audio	Support TTS Audio Broadcast
	UHF	Built-in TRx Internal Radio,1W/2W adjustable
	Protocol	Support GeoTalk, SATEL, PCC-GMSK, TrimTalk, TrimMark, South, Hi-Target
Physical	Network	Full 4G Network Netcom Module, 2/3/4G Network
	Interface	1x TNC UHF Antenna, 1x 5PIN (Power+RS232) , 1x 7PIN (USB+RS232)
	Button	1x Power Button
	Indicator	4x LED
Electric	Size	Φ156mm×H76mm
	Weight	1.2kg
	Battery	7.2V, 24.5Wh Dual-battery Design,Hot Swappable
	Usage Time	Static Mode:15h , Rover Mode:12h
	Power	DC 9-18V , with overvoltage protection
Environment	Operation Temperature	-45℃~+75℃
	Storage Temperature	-55℃~+85℃
	Ingress Protection	IP68
	Humidity	100% non-condensed

\* The actual parameters are subject to the product technical documentation.

\* ATLAS Subscription is pay-for-use.

\* The positioning accuracy and reliability of GNSS products may vary with abnormal conditions such as multipath, obstacles, satellite geometry and atmospheric conditions.

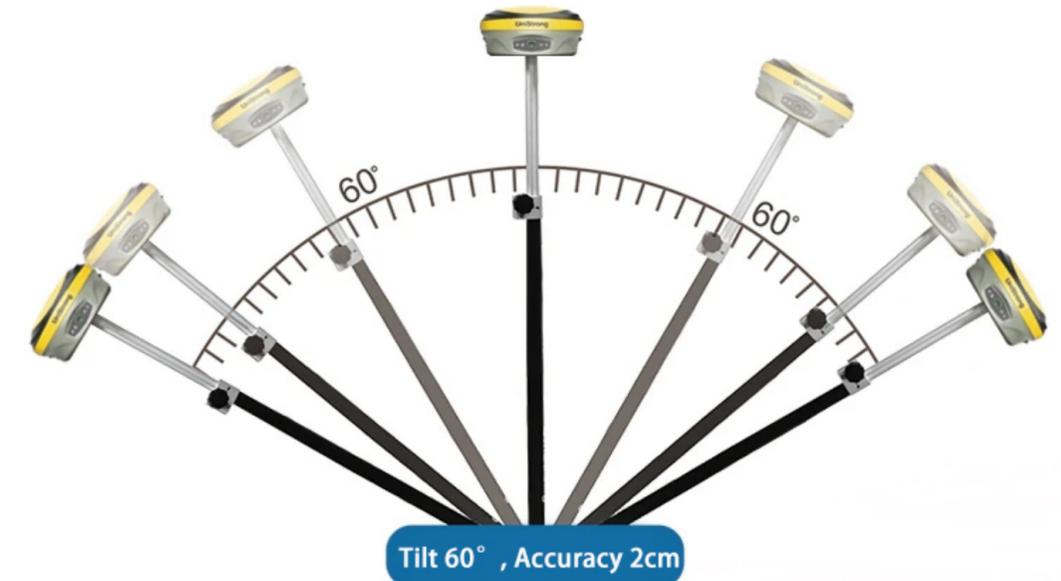
UniStrong

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G970II Pro

IMU+GNSS

GNSS RTK Receiver



IMU+GNSS

Inosculation Positioning



# Born to Reform!

## 01 Tilt Time Easy Surveying

Does the tilt measurement need to be initialized?  
Accuracy is reliable? Time waiting for tilt?  
Dynamic is not testable? Does it need the dedicated surveying pole?  
The angle is too small? The overall is not good?

Unistrong's new generation of IMU tilt technology,  
Born to reform!

Solve all the above problems in the tilt measurement!

Haven't tried it, you won't know how easy and good it is!



## 02 Outstanding Housing Powerful Engine

### Antenna RTK Engine

The new generation RTK solver engine has a 20% improvement in solving power than the previous generation, effectively improving the RTK initialization speed and accuracy in harsh environments.

### Family Design Language

Unistrong G970II series is designed with the Inner Eye family language, Strong, Smart, Small, highlighting power and beauty, international fan!



### International Core Technology

SureFix™ & TracerPlus™ international core patent technology makes your fixed solution not only fast, more accurate, but also a bit more accurate than ever.



## 03 Best Design Best Quality

High-quality accessories, high-quality lining, from visible to invisible places.

“Quality, decide success or failure!”



### Combined Antenna

A new generation of combined antennas, integrating GNSS, WIFI, Bluetooth, 4G antennas, the whole system is deeply optimized, and the signal strength is increased by 30%!



### Rugged Housing High Protection

High-purity magnesium alloy material + independent closed space capsule design, which forms an independent loop between different RF modules, minimizing internal crosstalk, and the internal noise control of the instrument reaches the world's top level!



### Inosulation Positioning

Using inosulation positioning technology, built-in high-precision IMU inertial navigation module, patented IMU inertial navigation and GNSS inosulation positioning algorithm, support 400Hz real-time dynamic tilt data calibration, tilting 60 degrees positioning accuracy of 2cm.



## 04 Great Experience Industrial Leading

### ATLAS

ATLAS satellite-based augmentation system, global single-receiver centimeter-level positioning accuracy.

### aRTK

When the data link is interrupted, the high-precision positioning result is maintained for a certain period of time, and the operating range is effectively expanded.



### Cloud Service

Private cloud service, remotely master the working status, make your instrument smarter!

## 05 Full Dedication All Omnipotence



Full constellation, full-band satellite signal reception, and ATLAS differential support, perfect support for Galileo and Beidou B3!

Double battery, hot swappable; battery compartment, double insurance; new height of industrial design! The battery power is detected by one button, and the battery of the host notebook is common.



The radio supports 410-470MHz full frequency bands and full protocols, full brands compatibility; the network supports 4G full Netcom.



Upgrade firmware, download data is still using data cables? It is outdated! G970II Smart system + WebUI, let RTK use as easy as the Internet! TTS smart audio, let you have a talking partner!



Base station offset, remaining power, no way to know? Do not worry! Smart base station, let your base station in the sky, seems to be close at hand.



The controller is damaged, the data is gone? Do not worry! Triple automatic measurement of measurement data, controller+ receiver + cloud, escort your data security!

