Specification

G970II ZX

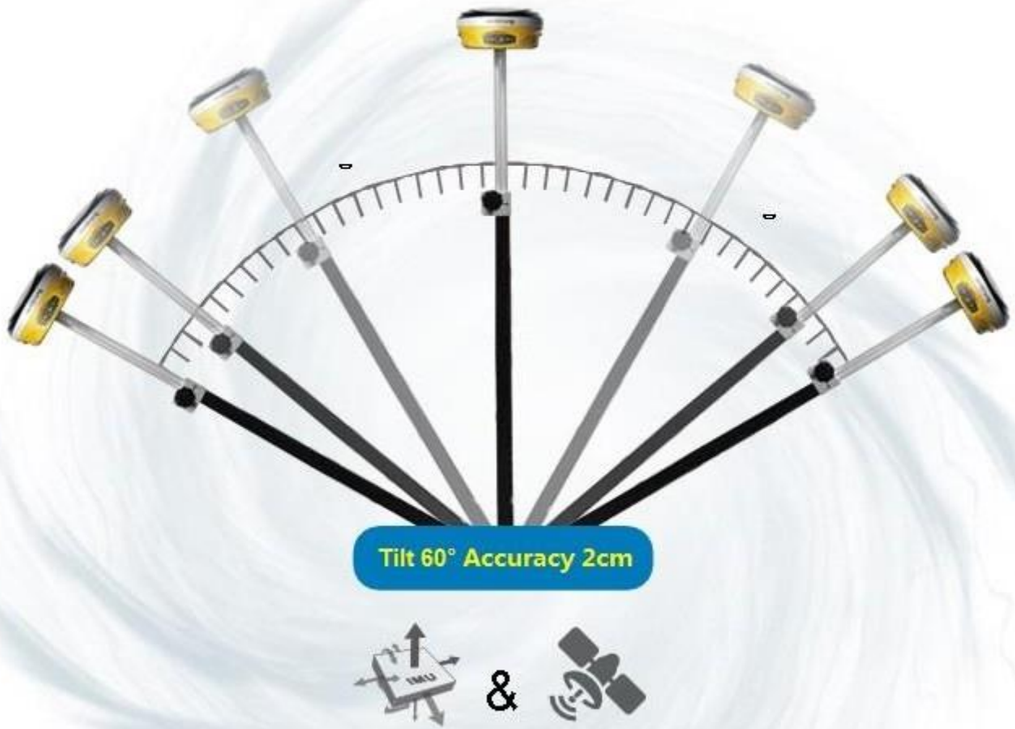
Product model		G970II ZX
GNSS	Channels	**800 channels**
	Satellite Signals	BDS: B1, B2, B3 GPS: L1CA, L1P. L1C, L2P, L2C, L5 GLOASS: G1,G2, P1, P2 GALILEO: E1BC, E5a. E5b QZSS: L1CA. L2C. L5, L1C SBAS: L1CA, L5 L-Band
Accuracy	Static	H: 2.5mm±1ppm，V: 5mm±1ppm
	RTK	H: 8mm±1ppm，V: 15mm±1ppm
	DGNSS	＜0.5m
	ATLAS H10	8cm
	Initialization Time	8s
	Initialization Reliable	99.9%
System	OS	Linux
	Memory	8GB，support expandable MicroSD
	Wi-Fi	802.11 b/g/n
	Bluetooth	V2.1+EDR/V4.1Dual, Class2
	E-Bubble	Support
	IMU Tilt Survey	Fusion positioning, 400Hz refresh rate, 2cm (@60°Tilt degree)
	Audio	support TTS audio broadcast
Datalink	UHF radio	T/Rx Internal Radio, 1W/2W adjustable, 410-470MHz
	Radio protocol	Support GeoTalk, SATEL, PCC-GMSK, TrimTalk, TrimMark, South, Hi-Target
	Network	4G-LTE, TE-SCDMA, CDMA(EVDO 2000), WCDMA, GSM(GPRS)
	Reference outputs	RTCM2.3, RTCM3.2, CMR,CMR+,ROX
Physical	Interface	1*TNC Radio Antenna, 1*5Pin(Power & RS232),1*7Pin (USB 81 RS232)
	Button	1 Power Button
	Indication Light	4 Indication Lights
	Size	Φ156mm×H76mm
	Weight	1.2kg
Power supply	Battery capacity	7.2V, 24.5Wh(standard two batteries)
	Life Timer	Static Survey: 15 hours, Rover RTK survey: 12h
	External power source	DC 9-18V, with overvoltage protection
Environment	Work Temperature	-35℃~+65℃
	Storage Temperature	-55℃~+85℃
	Waterproof & dustproof	IP68
	Humidity	100% anti-condensation

(1) Accuracy and reliability specifications may be affected by multipath, satellite geometry and atmospheric Conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.
(2) Operating time varies based on temperature. Specifications are subject to change without notice.

G970II-ZX

GNSS Receiver

Tilt 60° survey



G970Ⅱ ZX Features

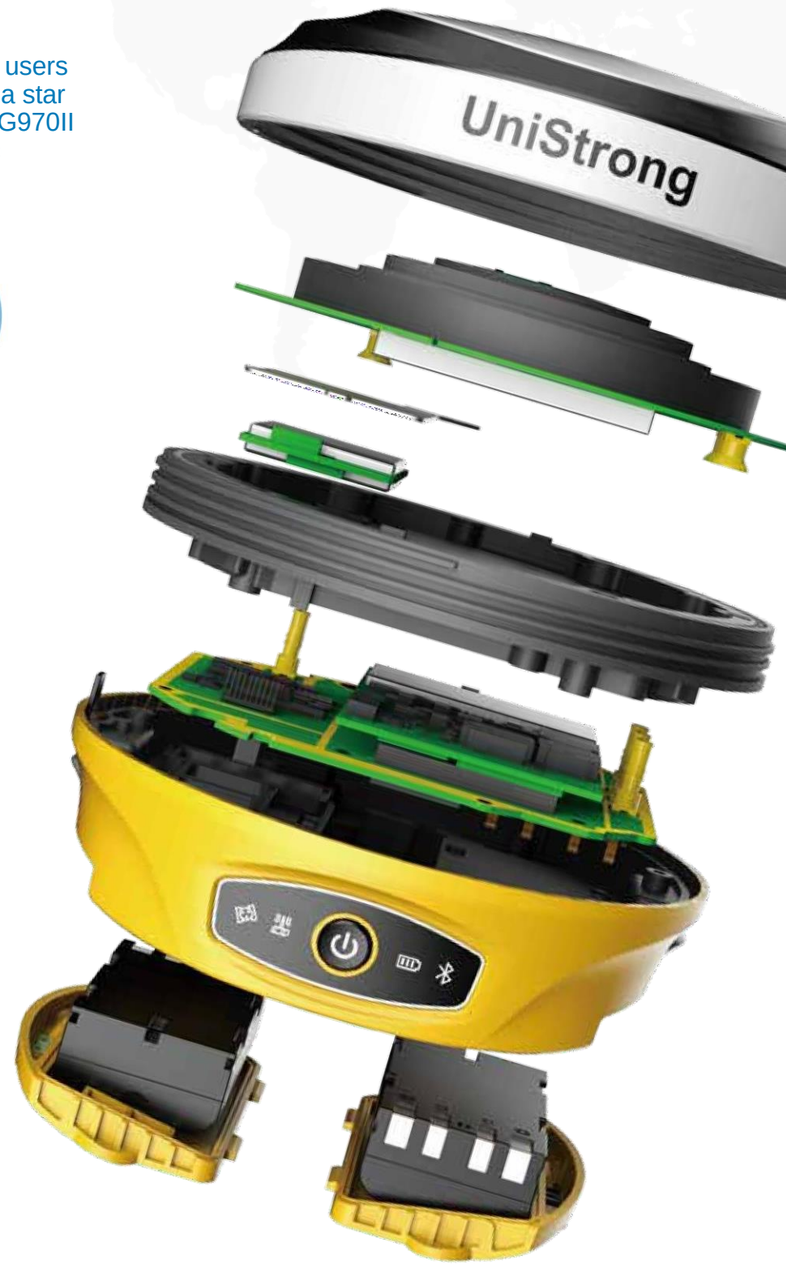
Since G970II launch, G970II has been recognized by the majority of users for its excellent quality and excellent performance, and has become a star product in the RTK market. Now, the G970II is newly upgraded, the G970II ZX is launched, and a new inertial navigation technology is added to support the fusion positioning.

"Athena" RTK engine, ATLAS aRTK

Core Technology

The G970II ZX Extreme Edition is equipped with a new generation of high-precision positioning boards, 800 super channels, supporting 4-satellites full-band satellite signal reception, and fully supports the fourth-generation GNSS positioning technology.

- A new generation of Athena RTK engine to effectively improve the initialization speed and accuracy in harsh environments.
- Support “ATLAS” L-Band signal receiving, single-machine centimeter-level positioning accuracy anywhere in the world.
- Support “aRTK” technology, maintain a fixed resolution for a period of time in the case of a differential data link interruption.



Fusion Positioning 60 ° Tilt Survey High dynamic output

Fusion positioning

Using fusion positioning technology, built-in high-precision IMU inertial navigation module, patented IMU inertial navigation and GNSS fusion positioning algorithm, Support 400Hz positioning data output, tilt 60 degrees positioning accuracy 2cm, can do tilt measurement, Surveying at any time.

Easy Surveying

Combined Antenna

A new generation of combined antennas, GNSS, WiFi, Bluetooth, 4G. The antenna is integrated, the system level is optimized, and the signal strength is improved Up 30%!

Dual Batteries Dual insurance

Dual battery + dual battery compartment double insurance design, unique ingenuity, battery self-contained power intelligent detection chip, remaining power, one click know!

WebUI Intelligent Voice cloud services

Intelligent System

Based on intelligent operating system, the newly designed new generation WebUI makes RTK operation as simple as the Internet; intelligent TTS voice prompts support user DIY settings; UniCloud private cloud service, remotely control the working status, make your instrument smarter !

Beyond, because I don’t believe in perfection