

Specification Unistrong G970-II models

	G970IIPA	G970IIBET	G970IIOET	G970IIPETA
Tracking Capability	Hemisphere	Trimble	Novatel	Hemisphere
Motherboard	P328	BD990	OEM729	P328
Number of Channels	394	336	555	394
Star Chain endurance	Support	/	/	Support
Electronic bubble	/	Support	Support	Support
IMU tilt measurement	/	Support IMU tilt measurement without calibration		
Tracked Signals	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			
Positioning Accuracy				
Static	±2.5mm + 1 ppm (Horizontal); ±5mm + 1 ppm(Vertical)			
RTK	±8mm + 1 ppm (Horizontal); ±15mm + 1 ppm(Vertical)			
DGNSS	<0.5m			
ATLAS(H10)	8cm※	/	/	8cm※
Initialization time	Typically < 8 seconds			
Initialization reliability	Typically > 99.9%			
System Setting				
Operture system	Linux			
Data storage	Internal :8GB，Support MicroSD card			
WiFi	802.11 b/g/n			
Bluetooth	V2.1 Class2 / V4.1LE			
Electronic Bubble	/	Support	Support	Support
IMU-Tilt survey	/	support tilt survey, no need adjustment		
Voice	Support TTS voice			
Hardware Physical				
I/O Port	TNC Radio port，DC power input (5-pin) and USB port (7-pin)			
Button	Power button			
Indicator Light	Satellite/Data link/Power/Bluetooth LED			
Size (W×H)	156 cm x76cm			
Weight	1.2kg			
Material	Magnesium alloy shell			
operating temperature	-30℃-+65℃			
storage temperature	-40℃-+80℃			

Dust/water protection	IP67
Humidity	100%, condensing
Electrical	
External power	9 to 18V DC external power input with over-voltage protection (5pin Lemo)
Power	7.2V, 3400mAh*2
operation times	Static:15h Rover: 12h
Communications	
Internal Radio	1W/2W adjustable
Link Protocols	Support GeoTalk、SA TEL、PCC-GMSK、TrimTalk、TrimMark、SOUTH
Network	Support 2G/3G/4G network

Function Features:

Intelligent double electric, Handheld universal

The host comes standard with two large-capacity smart lithium batteries, and is common with the handheld battery, comes with a power detection chip, a key that knows the remaining power, dual batteries, hot switching, bring you never-ending measurement experience.

Solid as gold soup, solid as a rock

The body of G970II main machine body is made of pure magnesium alloy material, which has more excellent electromagnetic shielding performance and more lightweight solid body, which ensures the stable and reliable operation of equipment.

Combined antenna, complete machine optimization

Using a new combination of antennas, GNSS, WIFI, Bluetooth, 4G set as a whole, the new design (more concise) of the internal structure, the whole system-level optimization, brings a more pure internal electromagnetic environment and better signal performance.

aRTK (Star Chain Life Technology)

The G970II can use the aRTK star-chain life technique to maintain RTK precision operations for a certain period of time in the event of a disruption of the traditional RTK data link, eliminating dead angle of traditional RTK operation

