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GNSS RECEIVER

GX900

8mm
UHF RTK
ACCURACY

Wi Fi Bluetooth IP67

WEB compatible
For all Devices

Hi Speed Internet
for NTRIP

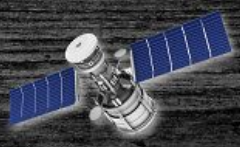
5 km internal UHF
Full Compatible

10 hours
Continuous Work

30° TILT SENSOR
Calibration-Free

Trimble BD990 Board Inside

L-Band
FUNCTIONALITY



2.5cm
Rover Only

Trimble RTX correction services can achieve 2 cm RMS / 2.5 cm @95% accuracies in real time.

*Depending user's geographic location and conditions.
**This is a paid correction service and need to activation.

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Full Sky and L-Band

ACNOVO GX900 also support L-Band©function, can get CM accuracy just with one receiver. Can maximize the tracking to observe all visible GNSS satellite signals, GPS, GLONASS, GALILEO, BEIDOU thereby providing maximum performance for accuracy and real-time measurements.

High Performance

ACNOVO GX900 with advanced satellite tracking technology ensures it works well even in harsh environment such as under heavy foliage, advanced software with hi performance can search available satellites and get Fixed solution quickly.

Highly integrated internal components

The innovative technology made ACNOVO GX900 has excellent combination with GNSS, 4G, Bluetooth and Wi-Fi antenna, which reduces the internal signals crosstalk. The powerful 360-degree omni-direction signal receiving enables full omnidirectional communications.

Third generation tilt surveying technology

Inserted with high-sensitive E-bubble and brand-new tilt survey algorithm, ACNOVO GX900 is calibration-free. Immune to magnetic disturbance and free from limitation of tilt angles, can measure points where a vertical placement of the pole is not possible such as house corners.

4G Network

ACNOVO GX900 with its advanced 4G module, guarantee 4G network can transmit world-widely. This results more convenient and stable network communication.

WEB Connectivity - Mobile Friendly

ACNOVO GX900 is MULTIPLATFORM and full compatible with all devices and browsers. Mobile devices is convenient way to control and modify any operation mode. This model provide two connecting methods: Bluetooth and Wi-Fi connection.

Cloud Service

SurPad software enables simultaneous work in field and office, enables data promptly upload and backup, which greatly improve surveying efficiency.

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2 Smart Batteries

10 hours of continuous work, Lithium smart batteries swappables, provided with lever check button.

32 GB Memory Slot

Extended memory, you no need to worrie about data storage, with 8GB internal memory plus 32 GB slot.

4G Network

Advanced 4G module, guarantee stable and fast network communication. Very important on NTRIP link work mode.

Port for USB and External devices

7 and 5 Pins ports are availables for cable connection, which let you communicate with PC and others devices like external radio or Echosounder.

Internal Radio

1 Watt internal radio, can cover 5 Km in good enviroment, 410-470 MHz, full compatible with others brands protocol. SATEL, PCC-GMSK, TrimTalk 450S, South, TrimMark 111(19200) and GeoTalk, GeoMark.

Powerfull 35 Watts External Radio

Radiowave-beaming technology guarantee the furthest of signal transmission within surveying area.

Bloetooth

Wirelessly connect radio and base with SurPad software, transmitting data via Bluetooth. No longer worry surveying will be suspended due to wire

Safe Connection

Protection of opposite connection and open circuitry guarantee safety of radio use. Battery voltage can be previewed and precautioned.

Optional

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GX900 Work mode alternatives

L-Band Mode

2.5 cm accuracy is possible with L-Band Correction Service, deppend of service supplier.

Internal Radio

Ready to work, 1 Watt Internal Radio, full compatible with others brands.

Exnternal Radio

Hi power external radio, with 35 Watts to ensure you can extend your work area.

NTRIP

With 4G Hi Speed internet, the GX900 is perfect to work with NTRIP network

The accuracy on this table is reffered to ideal conditions

	Items	Specification		
GNSS	GPS Board	OEM729	BD990	P328
	Channel	555	336	394
	SATELLITES	GPS: L1C/A,L1C,L2C,L2P,L5 GLONASS: L1C/A,L2C/A,L2P, L3,L5 BeiDou: B1,B2,B3 Galileo: E1,E5 AltBOC,E5a, E5b,E6 NAVIC: L5 SBAS: L1,L5 QZSS: L1C/A,L1C,L2C,L5,L6	GPS: L1 C/A,L2E,L2C,L5 GLONASS: L1C/A,L2C/A, L3 CDMA BeiDou:B1,B2,B3 Galileo:E1,E5A,E5B, E5AltBOC,E6 NAVIC: L5 QZSS: L1C/A,L1SAIF, L1C, L2C, L5,LEX SBAS: L1 C/A,L5	GPS: L1C/A,L1P,L1C,L2P, L2C,L5 GLONASS: G1,G2, P1,P2 BeiDou: B1,B2,B3 GALILEO: E1BC,E5a,E5b QZSS: L1C/A,L2C,L5,L1C SBAS: L1 C/A,L5
	Update rate	5Hz (Standard 5 Hz, can pay to activate 100HZ)	50Hz (Standard 50 Hz)	5Hz (Standard to 5 Hz, can pay to activate 50HZ)
	Static Accuracy	Horizon: ±(2.5+1×10^{-6}D) mm Vertical: ±(5+1×10^{-6}D) mm	Horizon: ±(2.5+1×10^{-6}D) mm Vertical: ±(5+1×10^{-6}D) mm	Horizon: ±(2.5+1×10^{-6}D) mm Vertical: ±(5+1×10^{-6}D) mm
	RTK Accuracy	Horizon: ±(8+1×10^{-6}D) mm Vertical: ±(15+1×10^{-6}D) mm	Horizon: ±(8+1×10^{-6}D) mm Vertical: ±(15+1×10^{-6}D) mm	Horizon: ±(8+1×10^{-6}D) mm Vertical: ±(15+1×10^{-6}D) mm
	L-Band	Terrastar	RTX Portal	Atlas
Power	Battery	Dual Batteries, 7.2V/3400mAh*2 Can work at least 10 hours		
	Input	9~28V DC		
System	OS	Linux		
	Memory	Internal 8G; TF Extended, Max≥32G		
	Bluetooth	V2.1+EDR / V4.1 Dual Mode, Class2		
	WI-FI	802.11 b/g/n		
	4G	All areas without North America: EC25-E, 4G FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8	North America: EC25-A, 4G FDD LTE: B2/B4/B12 WCDMA: B2/B4/B5	
	Internal UHF	TRM101: Power 1W, Frequency 410-470MHz Work Distance: 5km in good environment		
	Protocol	SATEL, PCC-GMSK, TrimTalk 450S, South, TrimMark III(19200), GeoTalk, GeoMark		
	Electric Bubble	Support, Support tilt survey		
Interface	TNC	For UHF Antenna		
	5 pin	External radio and external power		
	7 pin	USB Port, NMEA Out put.		
	Others	Micro SIM Slot and TF slot		
Operation	Button	Power button, also can show Power status		
	Indicator	5 indicators: Satellites, Datalink, Bluetooth, WIFI Status, Power Indicator		
	Language	Supports TTS Multi language voice		
Physical	D*H	157mm*76mm		
	Weight	1.2KGS with 2 batteries inside		
Environment	Work Temperature	-30℃ ~ +65℃		
	Stock Temperature	-40℃ ~ +80℃		
	Protection	IP67		
	Shock	Withstand 2 meters pole drop, 1.2m drop without pole		
	Humidity	100%		