

AuroraNav

G1000



All-band RTK

Rapid RTK Fix
25 Hours Battery
25km LoRa Radio
AI-enhanced Reliability

Accuracy You Can Trust



Rugged Industrial Design

25+ hours of continuous rover-mode operation.
-40 °C to +60 °C wide-temperature range and IP67 protection.



Reliable RTK with AI

AI-driven bad signals filter out.
Rapid and stable RTK fixes even in challenging signal environments.



Fast & Reliable RTK Performance

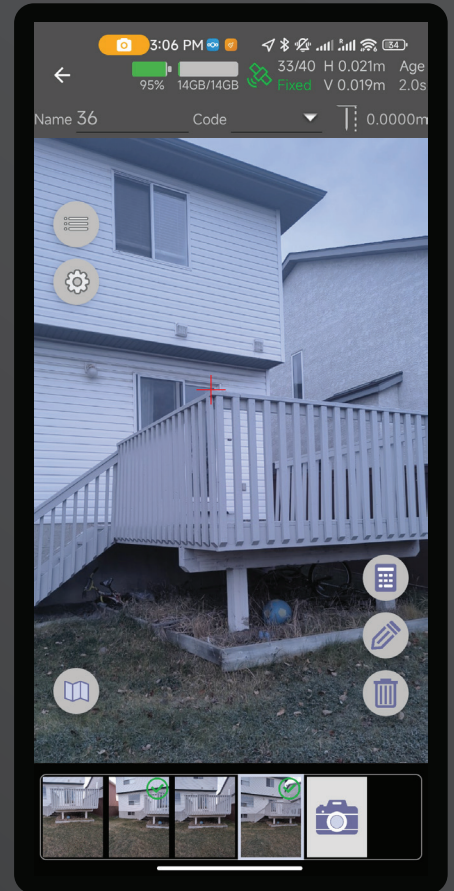
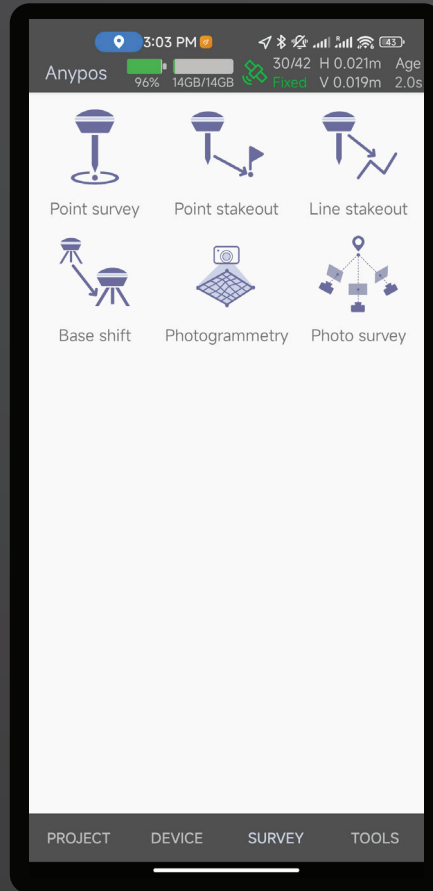
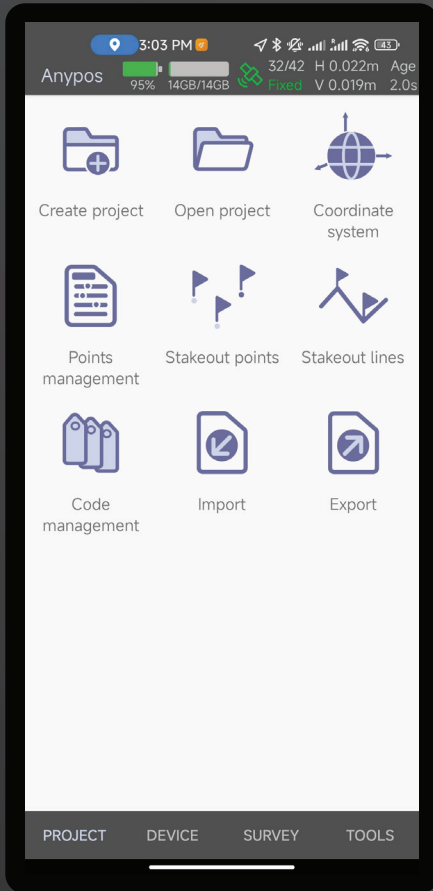
High-precision GNSS antenna and 1408-channels survey-grade chip.
All constellations multiple frequencies.



Ultra-Long-Range & Secure Radio Communication

1 W long-range LoRa radio, optimized for up to 25 km performance.
End-to-end encrypted link for secure data transmission.
Auto frequency scanning and LBT technology minimize interference.

Anypos: Professional Survey APP



Anypos is a mobile app that unifies surveying, stakeout, photogrammetry¹, photo survey¹ (measuring remote points), 3D scanning, and other advanced geospatial tools into one seamless workflow.



From Photos to Georeferenced 3D Models

Specifications

GNSS Performance

Channels	1408 channels
Signal Tracked	GPS: L1C/A, L1C, L2C, L2P(Y), L5 GLONASS: G1, G2, G3 ² Galileo: E1, E5a, E5b, E6 Beidou: B1I, B2I, B3I, B1C, B2a, B2b ² QZSS: L1C/A, L1C, L2C, L5, L6 NavIC: L5 SBAS: L1C/A
Antenna gain	40±2dB
Cold Start	< 12 s
Initialization Time	< 5 s (typical)
Initialization Reliability	> 99.9%
Data Update Rate	20Hz
Differential Data	RTCM V3.X

Positioning Accuracy

Single Point Positioning	Horizontal: 1.5m Vertical: 2.5m
DGPS	Horizontal: 0.4m Vertical: 0.8m
RTK	Horizontal: 0.8cm+1ppm Vertical: 1.5cm+1ppm
Velocity Accuracy	0.03 m/s

Photogrammetry ¹

Image sensor	From cellphone
Photo survey accuracy	<4cm (2-15m distance)

Radio

Power	1W
Modulation	LoRa
Sensitivity	-120 dBm
Frequency	850Mhz-930Mhz
End-to-end encryption	Yes
Range	Up to 25KM (2m height, line-of-sight)
Other functions	Listen-before-talk Frequency occupation scan

Hardware

Dimensions	153mm * 153mm * 90mm
Weight	658g

Environment

Operating temperature	-40 ~ 60 °C
Storage temperature	-40 ~ 70 °C
Water/dust proof	IP67
Shock proof	1.2m
Humidity	100%

System parameters

System	Low latency RTOS
Data record	DAT
Bluetooth	SPP5.0+BLE5.0, backward compatible

Power

Charge power	5V 3A
Working time	25h (Rover mode) 10h (Radio transmission)
Battery	10200 mAh 37.74Wh
External power input	10-30V

Port

Type-C	Charging & data transmission
SMA	Radio antenna
GX12	External power input Serial data input/ output External trigger input/ output
TF card slot	Data storage, up to 32GB supported

1: Support by specific firmware and extra attachment

2: Support by specific firmware

Specifications are subject to change without notice.

Find more at www.aurorana.com

