Software

Survey Master

Compatible with most of Android devices

Easier survey workflow via Wizard function

Support up to 60° IMU tilt compensation

Support all survey modes, including Static, PPK and RTK

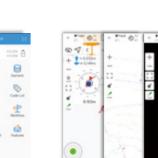
Support Surface Stake, Mapping Survey and etc. to serve various survey tasks

Support CAD import and directly use for stake out operations

Support Convert function from ComNavBinary raw file to RINEX







Optional

Microsurvey FieldGenius Android

Microsurvey FieldGenius Windows

CAD Basemap and Stake

Post-processing Software

SinoGNSS Compass solution software

Provide the complete GPS/GLONASS/BeiDou/GALILEO post-processing solution

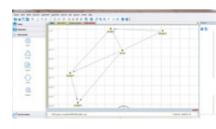
Support GNSS observation data in RINEX and ComNav Raw Binary Data formats

Support different post-processing in static and kinematic modes

Output analysis reports in various formats (web format, DXF, TXT, KML)

Supports DJI's P4R data format. Processing results can be imported into photogrammetry

and 3D modeling software directly







N3 GNSS Receiver

Signal Tracking Channels: 1198

GPS: L1 C/A, L2C, L2P, L5 BeiDou: B1I, B2I, B3I BeiDou Global Signal: B1C, B2a, B2b GLONASS: L1 C/A, L1P, L2 C/A, L2P Galileo: E1, E5a, E5b, E6, E5 AltBOC QZSS: L1C, L2, L5, L1C/A IRNSS: L5

SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM

Performance Specifications

Cold start: <50 s Warm start: <30 s Hot start: <15 s Initialization time: <10 s Signal re-acquisition: <1.5 s Initialization reliability: >99.9%

Positioning Specifications

Mode	Accuracy
Static and Fast Static	2.5 mm + 0.5 ppm Horizontal 5 mm + 0.5 ppm Vertical
Long Observations Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical
Real Time Kinematic	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS
PPP	10cm Horizontal and 20cm Vertical

Communications

- 1 Serial port (7 pin Lemo)
- Tx/Rx with full frequency range from 410-470MHz
- Transmit power: 0.5W, 1W, 2W adjustable
- Air Baud Rate: 9600/ 19200/ 11000 adjustable
- Protocol type: support Transparent/TT450S/South/Mac/SNLonglink, compatible with all the ComNavTech GNSS Receivers WIFI: 802.11b/g/n

Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz -5 LEDs (indicating Satellites Tracking, RTK Corrections Data, GPRS Status and Power)

2 Function buttons for Power and Static Data Record

Bluetooth®: V 4.0 protocol, compatible with Windows OS and Android OS

GNSS Surveying System

Ver.2025.05.26

Calibration-free IMU integrated for Tilt Survey Up to 60°tilt with 2.5 cm accuracy

Data Format

- Correction data I/O:
- RTCM 2.X, 3.X, CMR (GPS only), CMR+ (GPS only)
- ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST: PTNL. PJK: PTNL. AVR: PTNL. GGK
- ComNav Binary update to 20 Hz

Physical -

Size(W × H): Φ 15.5 cm × 7.3 cm Weight: 1.2 kg with two batteries

Environmental

Operating temperature: -40 °C to + 65 °C (-40 °F to 149 °F) Storage temperature: -40 °C to + 85 °C (-40 °F to 185 °F) Humidity: 100% non-condensing Waterproof and dustproof: IP67, protected from temporary immersion Shock: Designed to survive a 2 m drop onto concrete

Electrical and Memory

Input voltage: 6-28 VDC Power consumption: 1.7 W⁴ Li-ion battery capacity: 2 × 3400 mAh, 7.4V, up to 24 hours typically Memory: 8 GB⁵ Software Survey Master Android-based data collection software Carlson SurvCE field data collection software (optional)

- 1. PPP service is optional.
- 2. UHF modem is default configuration and it can be removed according to your specific needs.

MicroSurvey FieldGenius field data collection software (optional)

- 3. Working distance of internal UHF varies in different environments, the maximum distance is 15 Km in ideal situation.
- 4. Power consumption will increase if transmitting corrections via internal UHF.
- 5. 8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order.

Specifications subject to change without notice

)
		J



N3 IMU RTK **GNSS RECEIVER**

Reliable IMU and Enhanced UHF bring you a brand new high-efficiency experience! *

© 2025, ComNav Technology Ltd. All rights reserved. Sino GNSS is the official trade mark of ComNav Technology Ltd., registered in People's Republic of China, EU, USA and Canada, All other trademarks are the property of their respective owners, (May, 2025),

N3 IMU RTK

Up to 15km long work range with 2W power consumption, Integrated UHF ranges from 410 to 470 MHz.

Higher Efficiency with Enhanced UHF Modem

Simplified IMU initialization process with shaking poles only. Up to 60° tilt compensation within 2cm accuracy, no need to center the bubble. Convenience and reliability are guaranteed

More Convenient with Integrated IMU Module

















Full constellations tracking

Powerful tracking capability with 965 Channels Support all current and future GNSS constellations Improved fixed rate by integrated with new anti-interference algorithm technology



24 hours long-lasting batteries

Last for 24hrs' work time Support hot swap and mobile charging, no worry about power off



Enhanced UHF* for long range

Up to 15km work range with 2W power consumption Integrated UHF ranges from 410 to 470 MHz



Rugged housing

Magnesium-aluminum alloy housing IP67 waterproof and dustproof level Survive a 2m drop onto concrete



Reliable IMU for 60° tilt survey

Support up to 60° tilt compensation Reach 2cm accuracy with tilt survey



Powerful web-based UI

Available for users to check status and configure receiver via the web UI Easily download the static data & upgrade firmware via Wi-Fi



Industry-leading low power consumption

1.7w power consumption in static mode, which prolongs working time and reduces heat generation

R60 Data Collector





















^{*} UHF is removable according to specifc regulation in different countries.