Software

Survey Master

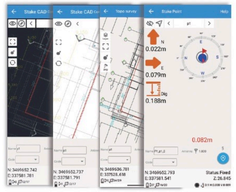
Compatible with most of Android devices
Easier survey workflow via Wizard function
Support up to 60° IMU tilt compensation
Support all survey modes, including Static, PPK and RTK
Support Surface Stake, Mapping Survey and etc. to serve various survey tasks
Support CAD import and directly use for stake out operations
Support Convert function from ComNavBinary raw file to RINEX

Google play
Survey Master Download for free

Carlson SurvCE Optional
Microsurvey FieldGenius Optional


IMU Tilt Survey


New Interface

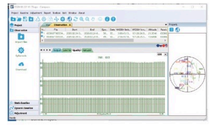

CAD Basemap and Stake

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





N5 GNSS Receiver

GNSS Surveying System
Ver.2021.10.20

Signal Tracking

1198 channels for simultaneously tracking satellite signals
GPS: L1C/A, L2C, L2P, L5
BeiDou: B1I, B2I, B3I, B1C, B2a, B2b
GLONASS: L1, L2
Galileo: E1, E5a, E5b, E6, AltBOC
QZSS: L1C/A, L1C, L2C, L5
Navic: L5
SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM, BDSBAS
L-Band[1]

Performance Specifications

Cold start: <50 s
Warm start: <30 s
Hot start: <15 s
Initialization time: <10 s
Singal 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)
- Baud rates up to 921,600 bps
Enhanced UHF modem[2]: Tx/Rx with full frequency range from 410-470 MHz[3]
- Transmit power: 0.5-2 W adjustable
- Range: 15 km[4]
WIFI/4G modem
- 4G Bands: 800/900/1800/2100/2600 MHz
- 3G Bands: 900/2100 MHz
- 2G Bands: 900/1800 MHz
- Support GSM, Point to Point/Points and NTRIP
Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
2 LEDs (indicating Satellites Tracking and RTK Corrections data)
1 OLED Display and 2 Function buttons
Bluetooth® : V 4.0 protocol, compatible with Windows OS and Android OS
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)
Position data output:
- 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 to depth of 1 m
Shock: Designed to survive a 2 m drop onto concrete

Electrical and Memory

Input voltage: 7-28 VDC
Power consumption: 1.7 W[5]
Li-ion battery capacity: 2 × 3400 mAh, up to 25 hours typically
Memory: 8 GB[6]

Software

Survey Master Android-based data collection software
Carlson SurvCE field data collection software (optional)
MicroSurvey FieldGenius 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.
3. Integrated UHF ranges from 410 to 470 MHz with 12.5 KHz channel spacing.
4. Working distance of internal UHF varies in different environments, the maximum distance is 15 Km in ideal situation.
5. Power consumption will increase if transmitting corrections via internal UHF.
6. 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.

SinoGNSS®
By ComNav Technology Ltd.

N5 IMU RTK GNSS RECEIVER

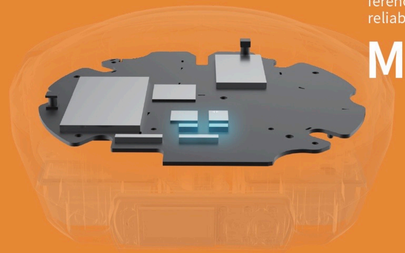
A reliable IMU RTK receiver you can really count on in the field!*

*From our filed testing statistics, with the IMU will increasing over 20% surveying productivity.

N5 IMU RTK

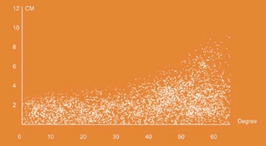
Up to 60° tilting compensation, no need to center the bubble, enables to measure quickly and acquire the precise position easily.

More Flexible



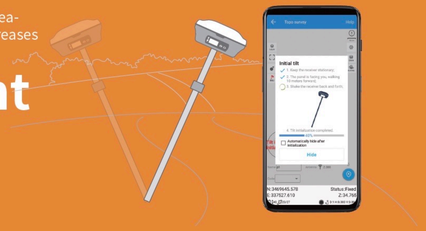
With in-built IMU and adopted self-developed core algorithm, the N5 IMU GNSS Receiver is free of magnetic interference and calibration, and can brings the accurate and reliable surveying results.

More Reliable



One-time adjustment for successive tilting measurement with centimeter-level accuracy increases work efficiency.

More Efficient



Features

Full constellations tracking
Powerful tracking capability with 1198 Channels
Support all current and future GNSS constellations
Improved fixed rate by integrated with new anti-interference algorithm technology

Enhanced OLED Display
Sunlight readability for a clear, easy-to read viewing experience
Handle all of surveying operations on screen freely

6800mAh Large Li-battery
Last over 25hrs' work time.
Support 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 with 12.5 KHz channel spacing

Rugged housing
IP 67 waterproof and dustproof
Survive a 2m drop onto concrete

Web-based UI
Available for users to check receiver status via the web UI.
Easily download the static data without connecting cable

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

Seamlessly Work with GNSS Network RTK Corrections
Perfectly work with all kinds of CORS worldwide with in-built 4G modem

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

R550 Data Collector

5'' capacitive touch screen with sunlight readability

IP67 waterproof and dustproof

In-built 7000mAh battery supports at least 15hrs' work

64GB storage

Support of Bluetooth, WIFI and 4G

Typical Type-C interface

Less than 4 hours PE fast charging

Octa-core 2.0GHz processor

Android · IP67 · 4G · Bluetooth · Wi-Fi · SIM x2