

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



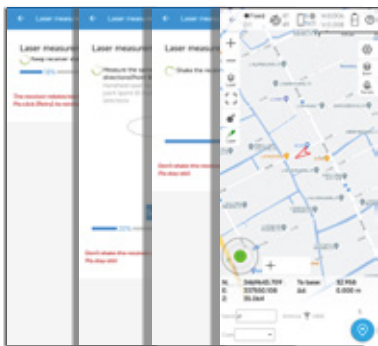
Microsurvey FieldGenius

Android

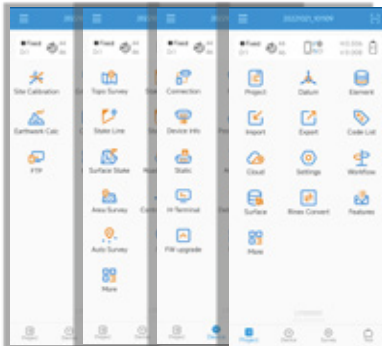


Microsurvey FieldGenius

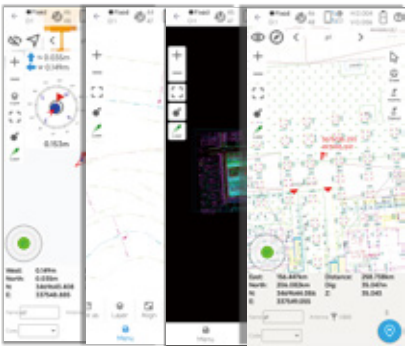
Windows



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

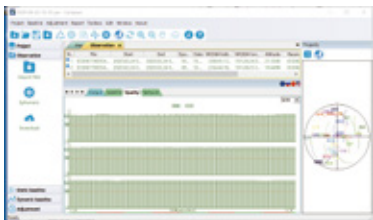
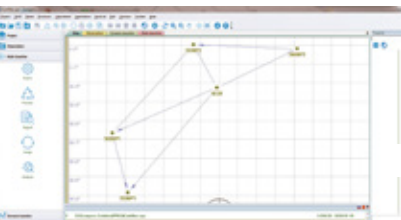
Support GNSS observation data in RINEX and ComNav Raw Binary Data formats

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

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, L3

Galileo: E1, E5a, E5b, E6, E5 AltBOC

QZSS: L1C/A, L1C, L2C, L5

Navic: L5

SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM, BDSBAS

L-Band¹

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)

- Tx/Rx with full frequency range from 410-470MHz

- Transmit power: 0.5W, 1W, 2W adjustable

- Air Baud Rate: 9600/ 19200/ 11000 adjustable

- Range: 3-15 km

- Protocol type: support Transparent/TT450S/South/Mac/SNLonglink, compatible with all the ComNavTech GNSS Receivers

WiFi/4G modem

- LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28

- LTE-TDD: B38/B39/B40/B41

- WCDMA: B1/B2/B4/B5/B6/B8/B19

- GSM: B2/B3/B5/B8

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

GNSS Surveying System

Ver.2025.05.26

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, GKG

- 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 W⁵

Li-ion battery capacity: 2 × 3400 mAh, up to 25 hours typically

Memory: 8 GB⁶

Software

Survey Master Android-based data collection software

Carlson SurvCE field data collection software (optional)

MicroSurvey FieldGenius field data collection software (optional)

- PPP service is optional.
- UHF modem is default configuration and it can be removed according to your specific needs.
- Integrated UHF ranges from 410 to 470 MHz.
- Working distance of internal UHF varies in different environments, the maximum distance is 15 Km in ideal situation.
- Power consumption will increase if transmitting corrections via internal UHF.
- 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



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.

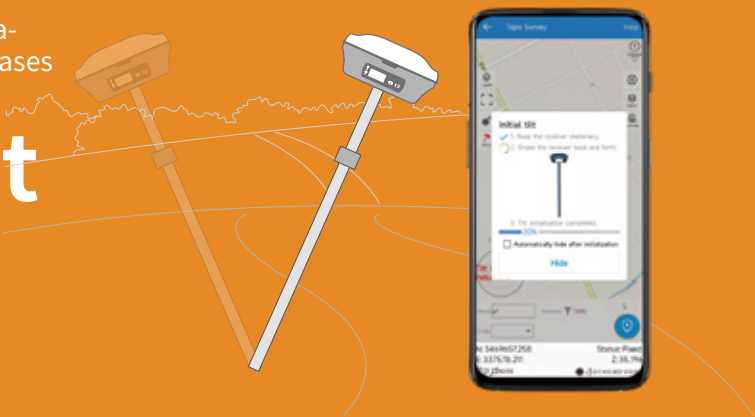
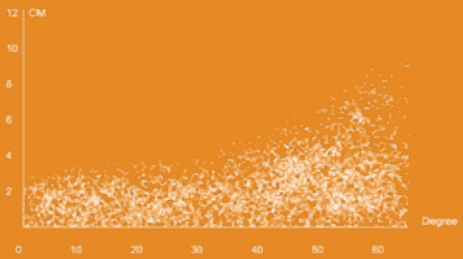
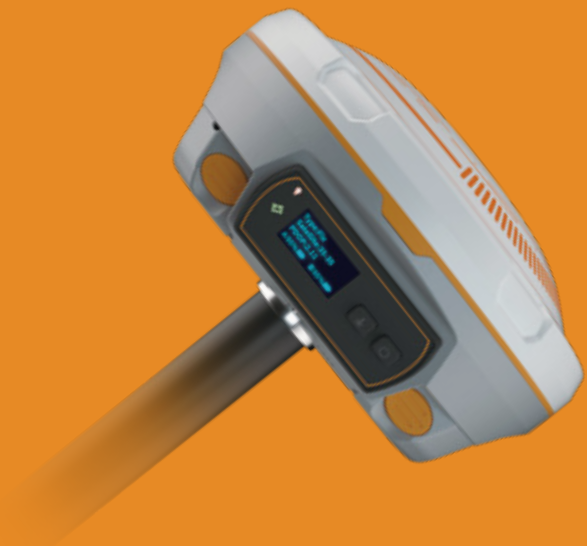
More Flexible

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

6800mAh Large Li-battery
Last over 25hrs' work time.
Support mobile charging, no worry about power-off

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

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

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

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

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

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

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

R60 Data Collector

Patent for design, **ergonomic operation**

With advanced **NFC**, tedious matching is a thing of the past

9000mAh Li-Polymer Battery for continuously working **30+** hours
QC3.0, 0.5h charging enables all-day use

Qualcomm 8-core processor **Android 12** operation system with GMS certificate

4+64 Memory
Open CAD drawing in seconds

5.5 inch sunlight readable screen
1080P HD display

Survive a 1.6m drop onto the concrete
Anti-static design, excellent heat dissipation

Physic **full QWERTY** keyboard speeds up working efficiency

5.0 Dual-mode Bluetooth, ultra long range Bluetooth connection



Qualcomm



1080P Resolution



5.5" Display



Full QWERTY



Android 12



LARGE CAPACITY



IP67