

## 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



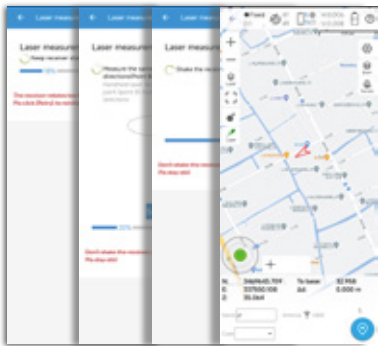
Microsurvey FieldGenius

Android

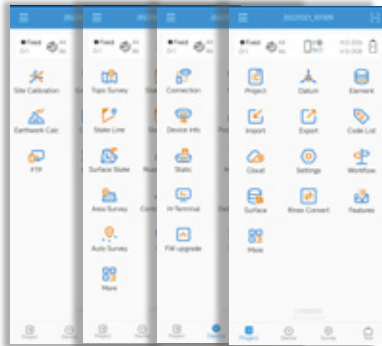


Microsurvey FieldGenius

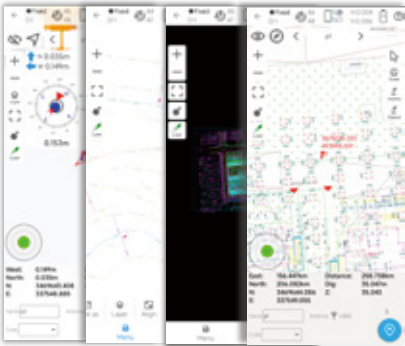
Windows



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

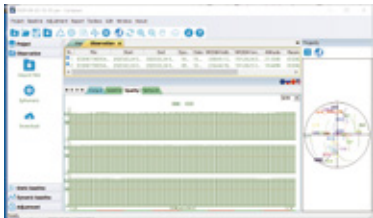
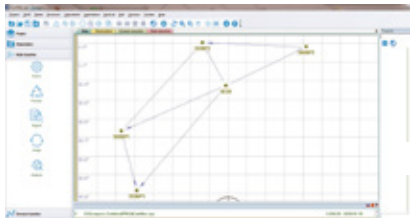
Support GNSS observation data in RINEX and ComNav Raw Binary Data formats

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



## 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

L-Band<sup>1</sup>

### 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

- Range: 3-15 km

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

WiFi: 802.11b/g/n

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

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)

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: 6-28 VDC

Power consumption: 1.7 W<sup>4</sup>

Li-ion battery capacity: 2 × 3400 mAh, 7.4V, up to 24 hours typically

Memory: 8 GB<sup>5</sup>

### 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. 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.

SinoGNSS

## N3 IMU RTK GNSS RECEIVER

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

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



# N3 IMU RTK

Up to 15km long work range with 2W power consumption, making it work-efficient and energy-saving for your survey tasks. 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 at the same time.

# More Convenient with Integrated IMU Module



# Features

**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

**Enhanced UHF\* for long range**  
Up to 15km work range with 2W power consumption  
Integrated UHF ranges from 410 to 470 MHz

**Reliable IMU for 60° tilt survey**  
Support up to 60° tilt compensation  
Reach 2cm accuracy with tilt survey

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

**24 hours long-lasting batteries**  
Last for 24hrs' work time  
Support hot swap and mobile charging, no worry about power off

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

**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

**Seamlessly work with GNSS network**  
Support GNSS industry common protocols  
Perfectly work with all kinds of CORS worldwide with in-built 4G modem

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

# R60 Data Collector

5.5 inch sunlight readable screen  
1080P HD display

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

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 8-core processor Android 12 operation system with GMS certificate

4+64GB Memory  
Open CAD drawing in seconds

