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







Microsurvey FieldGenius Android

Microsurvey FieldGenius Windows

Optional

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 ¹

Performance Specifications

Сс	old start: <50 s
W	arm start: <30 s
Но	ot start: <15 s
Ini	tialization time: <10 s
Si	gnal re-acquisition: <1.5 s
Ini	tialization 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
- Transmit power: 0.5-2 W adjustable
- Range: 15 km ³
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
Calibration-free IMU integrated for Tilt Survey
Up to 60° tilt with 2.5 cm accuracy

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GNSS Surveying System

Ver.2023.09.03

Data Format

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 ⁴
Li-ion battery capacity: 2 × 3400 mAh, 7.4V, up to 24 hours typically
Memory: 8 GB ⁵

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! *

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



15KN

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

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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

😒 🔄 UHF 📴 👧 🛄 🕅

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

R60 Data Collector

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

Open CAD drawing in seconds

IP67