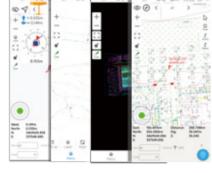
Software

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

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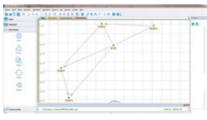
Carlson SurvCE

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







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
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
- 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

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GNSS Surveying System

Ver.2023.3.8

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 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)

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

N5 IMU RTK GNSS RECEIVER

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

N5 IMU RTK

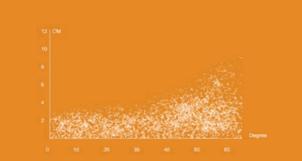
Up to 60° tilting compensation, no need to center the bubble, enables to measure quickly and acquire the precise position easily.

More Flexible



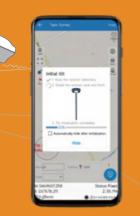
With in-built IMU and adopted self-developed core algorithm, the N5 IMU GNSS Receiver is free of magnetic interference and calibration, and can brings the accurate and reliable surveying results.

More Reliable



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

More Efficient



Features

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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

R60 Data Collector

5.5 inch sunlight readable screen**1080P** HD display

