Software

Survey Master

Compatible with most of Android devices

Easier survey workflow via Wizard function

Support up to 60° IMU tilt compensation

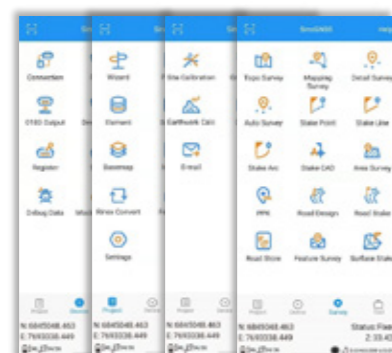Support all survey modes, including Static, PPK and RTK

Support Surface Stake, Mapping Survey and etc. to serve various survey tasks

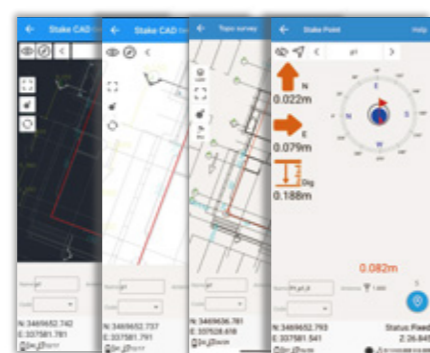Support CAD import and directly use for stake out operations

Support Convert function from ComNavBinary raw file to RINEX

Microsurvey FieldGenius `Android`

Microsurvey FieldGenius `Windows`

IMU Tilt Survey   New Interface   CAD Basemap and Stake

Post-processing Software
SinoGNSS Compass solution software

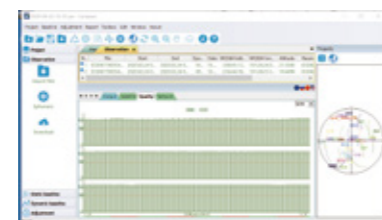Provide the complete GPS/GLONASS/BeiDou/GALILEO post-processing solution

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

N2 Palm RTK

Signal Tracking

Channel: 1590
GPS: L1C/A, L1C, L2P, L2C, L5
BDS: B1I, B2I, B3I, B1C, B2a, B2b
GLONASS: G1, G2, G3
Galileo: E1, E5a, E5b, E6c, E5 AltBOC
QZSS: L1C/A, L2C, L5,L1C
IRNSS: L5
SBAS: L1C/A

Performance Specification

Signal Re-acquisition≤1s
Cold Start: ≤45s
Hot start: ≤15 s
RTK Initialization Time: <10s
Initialization reliability: ≥99%
Internal Memory[1]: 8GB
Single Baseline RTK: 8mm+1ppm Horizontal
                     15mm+1ppm Vertical
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
DGPS: <0.4 m RMS
SBAS: 1 m 3D RMS
Standalone: 1.5m 3D RMS
Tilt Survey: up to 60 ° tilt with 2. 5cm accuracy
Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz

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, GGA,
                        GSA, ZDA, VTG, GST; PTNL, PJK; PTNL,
                        AVR; PTNL, GGK
                       -ComNav Binary update to 20 Hz

Electrical Specification

Voltage: 5/9V
Power Consumption: RX mode≤1.8W, TX mode≤3.6W
Over Current Protection Voltage: 30V, VBUS 9.99V
Charging Time: <5h(QC2.0)
Battery life: ≥20h

Interface

Serial Port: Support serial communication
USB: Type-C
Range Pole interface: Standard inch 5/8 inch UNC female thread
UHF port: TNC

Communication

BT5.0 Dual-Mode BT
UHF: -Tx/Rx with full frequency range from 410-470MHz
      - Transmit power: 0.5W, 1W, 2W adjustable
      - Air Baud Rate: 9600 / 19200 adjustable
      - Range[2]: 15 km
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

Environmental

Working Temperature: -30℃~+65℃
Storage Temperature: -40℃~+85℃
Humidity: 100% non-condensing
Water- & Dustproof: IP67
Shock: Survive a 2m drop onto the concrete

Physical

Housing Material: Magnesium aluminum alloy
Dimension: 149±1mm(φ), 48±1mm(H)
Weight: 650g without battery
        720g including battery

Software

Survey Master Android-based data collection software
MicroSurvey FieldGenius field data collection software (optional)

1.8GB is the default internal memory and optional 16GB, 32GB is available to order. Please clarify when placing the order.

2.Working distance of internal UHF varies in different environments, the maximum distance is 15km in ideal situation.

Specifications subject to change without notice.

SinoGNSS®
By ComNav Technology Ltd.

THICKNESS
48mm
WEIGHT
720g

N2 Palm RTK
N Series GNSS Receiver

LIGHTER, THINNER, FASTER
A Decade of Innovation, A RTK of Originality

N2 Palm RTK

FULL-CONSTELLATION & FULL-FREQUENCY TRACKING

With 1590 channels and 50+ satellite tracking capabilities, N2 has excellent performance under harsh conditions.

SATELLITE TRACKING			SATELLITE TRACKING	
GPS	L1C/A, L1C, L2P, L2C, L5		Galileo	E1, E5a, E5b, E6c, E5 AltBOC
BDS	B1I, B2I, B3I, B1C, B2a, B2b		QZSS	L1C/A, L2C, L5,L1C
GLONASS	G1, G2, G3		IRNSS	L5

PETITE RECEIVER
The slim-line design is refined to be only 48±1mm and 720g. With highly integrated main board and three-in-one antenna, it can be grasped on hand like a book.
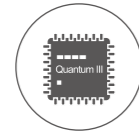
LONGER WORKING RANGE
The built-in transceiver UHF module has a super long working distance of up to 15KM. N2 can be switched as a rover or base at will.

15 KM

STRONGER PERFORMANCE
Integrated SinoGNSS K8 high-precision module and third generation IMU, N2 Palm RTK can reach high accuracy even in harsh environments, ensuring the quality of work.

LONGER BATTERY LIFE
The 10000mAh high-capacity lithium battery inside can be quickly charged within 5 hours and can work continuously for more than 20 hours at maximum intensity.

NFC FAST CONNECTION
NFC+Bluetooth: N2 Palm RTK can be connected automatically with a single touch.

NFC

NFC	BT 5.0	SMART BUTTON	PPP	QUICK CHARGE	IP67	K8 MODULE

In-built IMU supports 60°tilt compensation. Get precise measurement results without the bubble check.
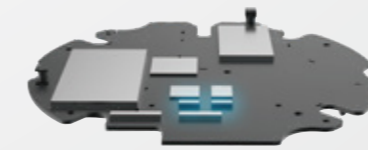
60°

EASIER
60°IMU Compensation

Once calibrated, tilt measurements with centimeter-level accuracy last a long time, which improves the working efficiency.

Self-developed core algorithm and built-in IMU ensure accuracy within 2.5cm. Magnetic fields are no longer issues, making surveying more convenient.

MORE EFFICIENT
10 Seconds Initialization

STRONGER
Unafraid of magnetic interference

R60 Data Collector

5.5 inch sunlight readable screen
1080P HD display

Patent for design, **ergonomic operation**

9000mAh Li-Polymer Battery for continuously working **30+** hours QC 3.0 quick charge. 0.5h charging enables all-day use

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

Aluminum-magnesium alloy middle frame design
Survive a 1.6m drop onto the concrete
Anti-static design, excellent heat dissipation

Qualcomm 8-core processor **Android 12** operation system

5.0 Dual-mode Bluetooth, ultra long range Bluetooth connection

4+64 Memory
Open CAD drawing in seconds

QUICK CHARGE	LARGE CAPACITY	IP67	Android 12	Qualcomm	1080P Resolution	5.5" Display