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
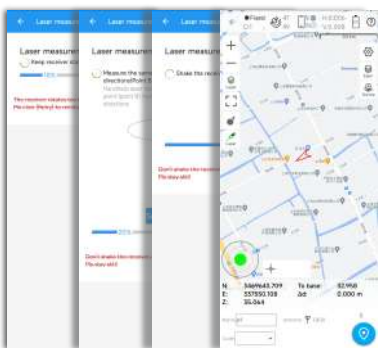
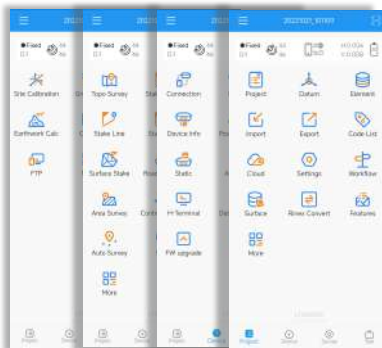**Optional**

- Microsurvey FieldGenius `Android`
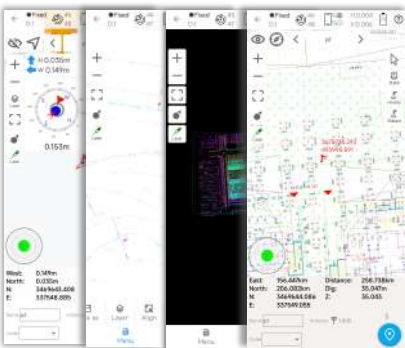- Microsurvey FieldGenius `Windows`

IMU Tilt Survey   New Interface   CAD Basemap and Stake

Post-processing Software
SinoGNSS Compass solution software

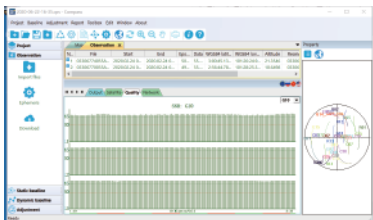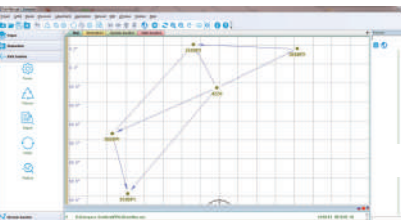Provide the complete GPS/GLONASS/BeiDou/GALILEO post-processing solution

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-ME 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

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)
- Baud rates up to 921,600 bps
WIFI: 802.11b/g/n
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

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

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. 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.

AUTHORIZED DISTRIBUTION PARTNER

N3-ME IMU RTK GNSS RECEIVER

*Disigned for Middle East

SinoGNSS®
By ComNav Technology Ltd.

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

N3-ME IMU RTK

With SinoGNSS QUANTUM III technology and its strong anti-interference design, the N3-ME will provide available and reliable high-accuracy positioning no matter where you are.

QUANTUM III TECHNOLOGY

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

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

QUANTUM III TECHNOLOGY
With SinoGNSS QUANTUM III technology and its strong anti-interference design, the N3-ME will provide available and reliable high-accuracy positioning no matter where you are.

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

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

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

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

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

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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

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

5.0 Dual-mode Bluetooth, ultra long range Bluetooth connection

4+64GB Memory
Open CAD drawing in seconds

| Qualcomm | 1080P Resolution | 5.5" Display | Full QWERTY | Android 12 | LARGE CAPACITY | IP67 |