

Survey Master

Compatible with most of Android devices

Easier survey workflow via Wizard function

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 direct use for stake out operations

Support Convert function from ComNavBinary raw file to RINEX

Support remote assistance, cloud storage, and seamless data sharing

Support DXF, SHP, KML, GPX, and Google Maps for seamless basemap visualization

Support connection with ComNavTech devices and NMEA devices

Support multiple languages and multi-country coordinate systems

Optional



Microsurvey FieldGenius

Android

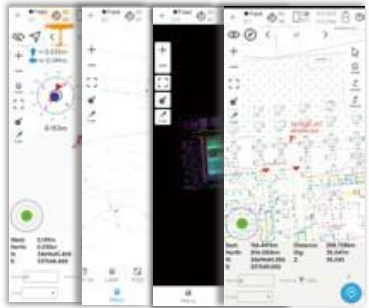


Microsurvey FieldGenius

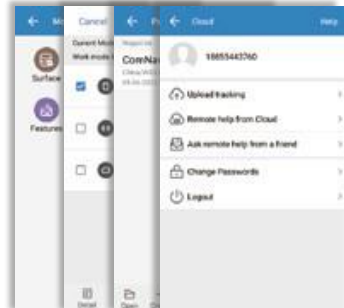
Windows



Laser Visual Survey & Stakeout



CAD Basemap and Stake



Cloud Service

Post-processing Software

SinoGNSS Compass solution software

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

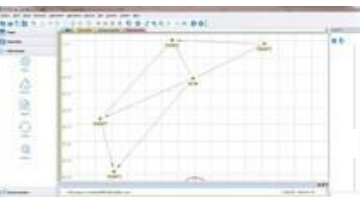
Support GNSS observation data in RINEX and ComNav Raw Binary Data format

Support different post-processing in static and kinematic modes

Output analysis reports in various formats (web format, DXF, TXT, KML)

Supports DJI's UAV data format. Processing results can be imported into photogrammetry and

3D modeling software directly



Jupiter GNSS Receiver

GNSS Surveying System

Ver.2024.12.19

Signal Tracking

Channel: 1668

GPS: L1C/A, L1C, L2P, L2C, L5

BDS: B1I, B2I, B3I, B1C, B2a, B2b

GLONASS: L1, L2, L3

Galileo: E1, E5a, E5b, E6c, E5 AltBOC

QZSS: L1C/A, L2C, L5, L1C

IRNSS: L5

SBAS: L1C/A

PPP: B2b & HAS

L-Band¹

Performance Specification

Signal Re-acquisition: ≤1s

Cold Start: ≤30s

Hot Start: ≤10s

RTK Initialization Time: <5s(Baselines≤10km)

Initialization Reliability: ≥99.99%

Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz

Mode	Accuracy
Static and Fast Static	Horizontal 2.5 mm + 0.5 ppm RMS Vertical 5 mm + 0.5 ppm RMS
Long Observations Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical
Signal Baseline RTK	Horizontal 8mm + 1ppm RMS Vertical 15mm + 1ppm RMS
DGPS	<0.4m RMS
SBAS	Horizontal 0.5 RMS Vertical 0.8 RMS
Standalone	1.5m 3D RMS
Laser Tilt Measurement	≤3.5cm (5m range, ≤60°Tilt in laser mode)

Data Format

Correction Data I/O: RTCM2.X, 3.X,CMR(GPSonly),CMR+(GPSonly)

Position Data Output: - ASCII: NMEA-0183 GSV, RMC, HDT, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GKG

-ComNav Binary update to 20 Hz

Electrical and Battery

Voltage: 7.2V

Li-ion Battery Capacity: 6900mAh

Power Consumption: 1.8W⁴

Working Time: 16h

Interface: Type-C

Memory: 8 GB⁵

Communication

1 Serial port: Baud rates up to 921,600 bps

Datalink²:

- Tx/Rx with full frequency range from 410-470MHz

- Transmit power: 0.5W, 1W, 2W adjustable

- Air Baud Rate: 9600/19200/11000 adjustable

- Range³: 3-15 km

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

WiFi: 802.11 a/b/g/n, 5GHz

Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

2 LEDs (indicating Satellites Tracking and RTK Corrections data)

Bluetooth ® : V 4.0 protocol, compatible with Windows OS and Android OS

Auto-IMU integrated for tilt survey, up to 120°tilt with 2.5 cm accuracy

Environmental Specification

Working Temperature: -40°C to +65°C(-72°F to 117°F)

Storage Temperature: -40°C to +85°C(-72°F to 153°F)

Humidity: 100% non-condensing

Water- & Dustproof: IP68

Shock: Survive a 2m drop onto the concrete

Physical Specification

Housing Material: Aluminium magnesium alloy

Dimension: Φ 13.35 cm x 6.6 cm

Weight: 810g,with internal battery

Display: 1.1 inch OLED color display

Laser Specification

Range: 50m

Laser Safety: Class 3R

Accuracy(room temperature): (3-5)mm + 1ppm

Measuring Frequency: Classic Value: 3Hz

Maximum Value: 5Hz

Laser Injection Power: 0.9mW~1.5mW

Working Temperature: -20°C~+50°C

Storage Temperature: -30°C~+60°C

Camera Specification

Sensor pixels: 2 cameras with 2 MP global shutter

Field of view: 75°

Video frame rate: 30 fps

Image group capture:

- Method: video photogrammetry. Rate: typically 2 Hz, up to 25Hz

- Max. capture time: 60s with an image group size of appr. 60MB

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 and also depends on the protocols. With SNLonglink, 15km working range is achievable under ideal conditions.
4. Power consumption will increase when transmitting corrections via internal UHF.
5. Memory is expandable.

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SinoGNSS



Jupiter Laser RTK

Universe Series GNSS Receiver

LASER RTK - INNOVATION MAKES A DIFFERENCE