Software

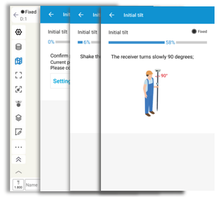
Survey Master

Optional

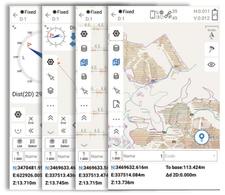
Microsurvey FieldGenius Android

Microsurvey FieldGenius Windows

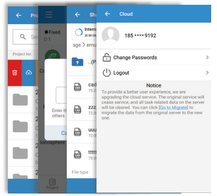
Compatible with most of Android devices
Easier survey workflow via Wizard function
Support up to 60° IMU tilt compensation
Support all survey modes, including Static, PPK and RTK
Support Surface Stake, Mapping Survey and etc. to serve various survey tasks
Support CAD import and directly use for stake out operations
Support Convert function from ComNavBinary raw file to RINEX



IMU Tilt Survey



CAD Basemap and Stake

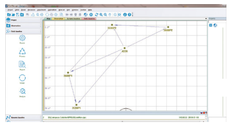


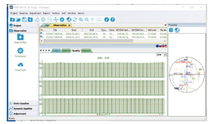
Cloud Service

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 P4R data format. Processing results can be imported into photogrammetry and 3D modeling software directly





T20 Palm GNSS Receiver

GNSS Surveying System
Ver.2025.11.27

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

Mode	Accuracy
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 Observation Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical
DGPS	<0.4 m RMS
SBAS	0.5m Horizontal 0.8m Vertical
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, 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)
Working time: up to 20h typically

Interface

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

Communication

BT5.0 Dual-Mode BT
Datalink: -Tx/Rx with full frequency range from 410-470MHz
- Transmit power: 0.5W, 1W, 2W adjustable
- Air Baud Rate: 9600 / 19200 / 11000 adjustable
- Range[2]: 3-15 km
- Protocol type: support Transparent/TT450S/South/Mac/SNLonglink, compatible with all the ComNavTech GNSS Receivers

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: 670g

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 datalink varies in different environments, the maximum distance is 15km in ideal situation.

Specifications subject to change without notice.

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SinoGNSS

T20 Palm

GNSS Receiver

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

T20 Palm GNSS Receiver

FULL-CONSTELLATION & FULL-FREQUENCY TRACKING

With 1590 channels and 50+ satellite tracking capabilities, T20 has excellent performance under harsh conditions.

SATELLITE TRACKING		
GPS	L1C/A, L1C, L2P, L2C, L5	
BDS	B1I, B2I, B3I, B1C, B2a, B2b	
GLONASS	G1, G2, G3	

SATELLITE TRACKING		
Galileo	E1, E5a, E5b, E6c, E5 AltBOC	
QZSS	L1C/A, L2C, L5, L1C	
IRNSS	L5	

PETITE RECEIVER

The slim-line design is refined to be only 48±1mm and 670g. With highly integrated main board and three-in-one antenna, it can be grasped on hand like a book.

Strong Compatibility

As the compatibility of datalink, it is compatible with mainstream brands, so as to reach wider users.

STRONGER PERFORMANCE

Integrated SinoGNSS K8 high-precision module and third generation IMU, T20 can reach high accuracy even in harsh environments, ensuring the quality of work.

LONGER BATTERY LIFE

The 10000mA high-capacity lithium battery inside can be quickly charged within 5 hours and can work continu-ously up to 20 hours.

NFC FAST CONNECTION

T20 Palm RTK can be connected automatically with a single touch.

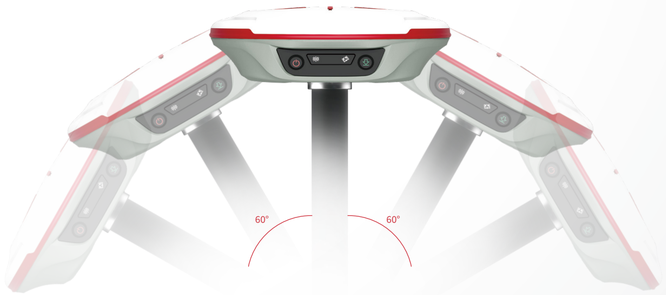
RUGGED HOUSING

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

K8 MODULE · FULL CONSTELLATION · QUICK CHARGE · PPP · NFC · BT 5.0 · IP67

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

EASIER
60°IMU Compensation



As the compatibility of the datalink module, it can meet the Once calibrated, tilt measurements with centimeter levelaccuracy last a long time, which improves the workingefficiency

MORE EFFICIENT
10 Seconds Initialization

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

STRONGER
Unafraid of magnetic interference

R50 Data Collector

5.5-inch sunlight readable screen, **720*1280** resolution

New exterior design, customized for engineers, more comfortable hold

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

Large capacity **7000mAh** battery, QC3.0 quick charging, long-lasting operation

Survive a **1.5m** drop onto the concrete, anti-static design, excellent heat dissipation

Classic **9-key** and center measurement shortcut speed up working efficiency

5.0 dual-mode Bluetooth, ultra long range Bluetooth connection

Qualcomm processor **Android 12** operation system, faster performance, smoother operation

4+64GB memory

QC Quick Charging · Large Capacity · 5.5" Display · Android 12 · Ultra-long Range Connectivity · NFC · Qualcomm · IP67