

| 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



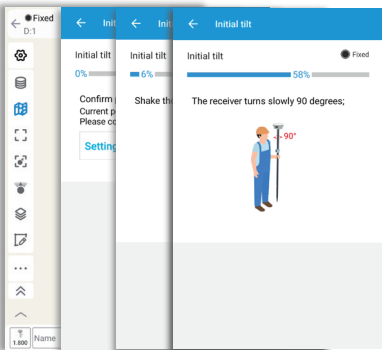
Microsurvey FieldGenius

Android

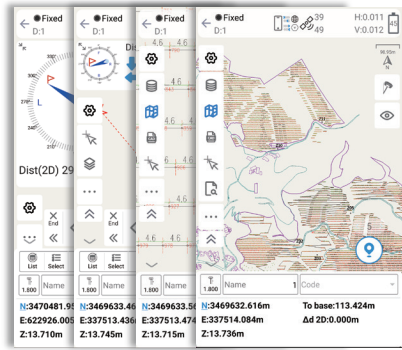


Microsurvey FieldGenius

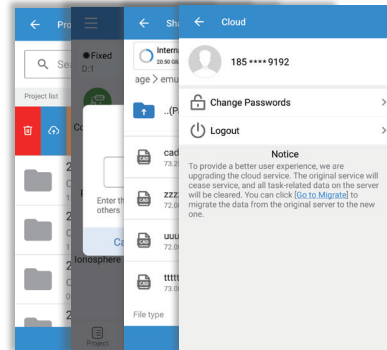
Windows



IMU Tilt Survey



CAD Basemap and Stake

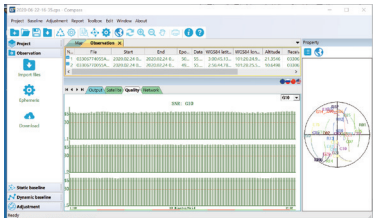
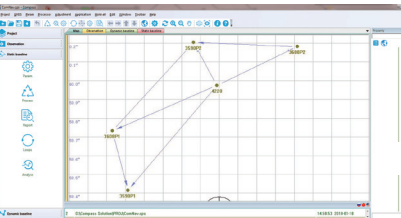


Cloud Service

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.2023.05.10

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: 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: RTCM2X, 3X, CMR (GPS only), CMR+ (GPS only)
Position data output: - ASCII: NMEA-0183 GSV, RMC, HDT, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, GK
-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 13h 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 adjustable
- Range²: 3-5 km
- Protocol type: Transparent/TT450S/South/Mac

Environmental

Working Temperature: -30 C ~+65 C
Storage Temperature: -40 C ~+85 C
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 5km in ideal situation.
- Specifications subject to change without notice.

SinoGNSS



T20 Palm GNSS Receiver

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

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| 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			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 670g. With highly integrated main board and three-in-one antenna, it can be grasped on hand like a book.



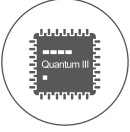
Strong Compatibility

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 continuously up to 13 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



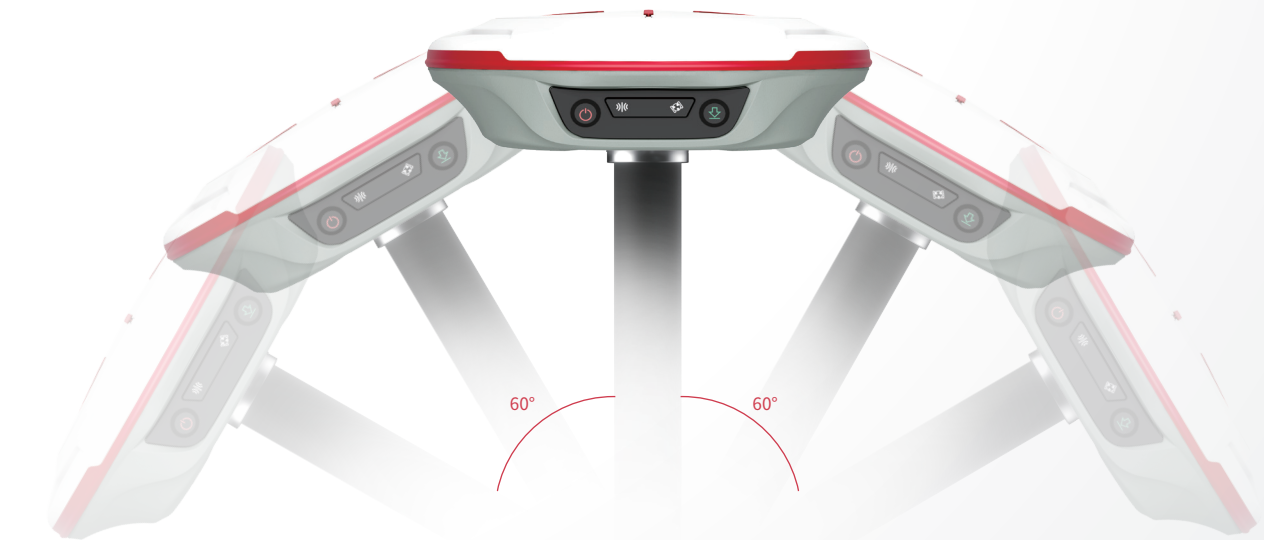
BT 5.0



IP67

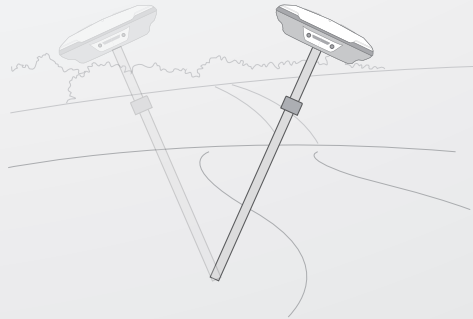
EASIER 60°IMU Compensation

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



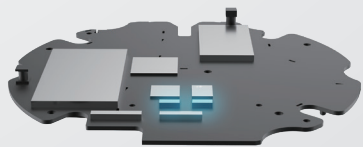
As the compatibility of the datalink module, it can meet the Once calibrated, tilt measurements with centimeter levelaccuracy last a long time, which improves the workingefficiency

MORE EFFICIENT 10 Seconds Initialization



STRONGER Unafraid of magnetic interference

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



| R50 Data Collector

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

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

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

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

4+64GB memory



QC Quick Charging



Large Capacity



5.5" Display



Android 12



Ultra-long Range Connectivity



NFC



Qualcomm



IP67