

## 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

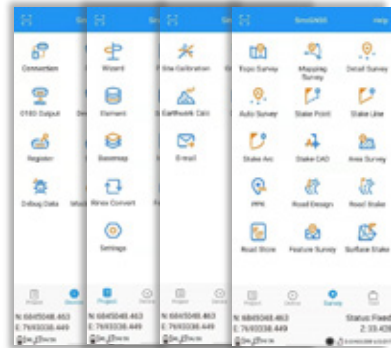


Microsurvey FieldGenius

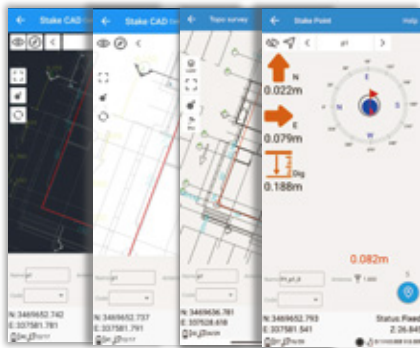
Windows



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

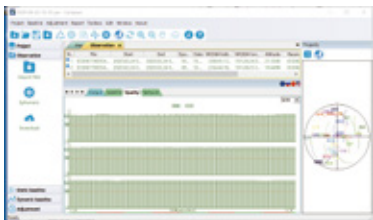
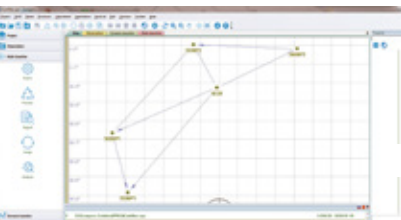
Support GNSS observation data in RINEX and ComNav Raw Binary Data format

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 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 Memory¹: 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, AVR; PTNL, GKG  
-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

GNSS Surveying System

Ver.2023.05.10

## 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: 2-5 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: 680g

## 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.



# T20 Palm RTK

## T Series GNSS Receiver

LIGHTER, THINNER, FASTER

A Decade of Innovation, A RTK of Originality

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# | T20 Palm RTK

## 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 680g. With highly integrated main board and three-in-one antenna, it can be grasped on hand like a book.



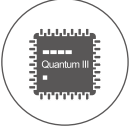
### Strong Compatibility

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



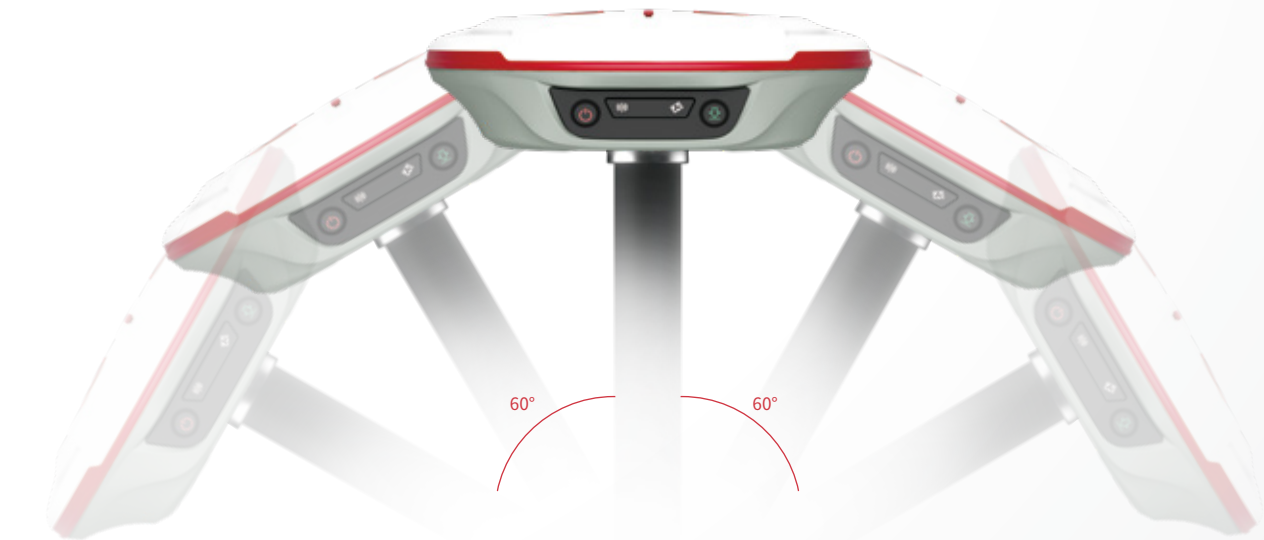
BT 5.0



IP67

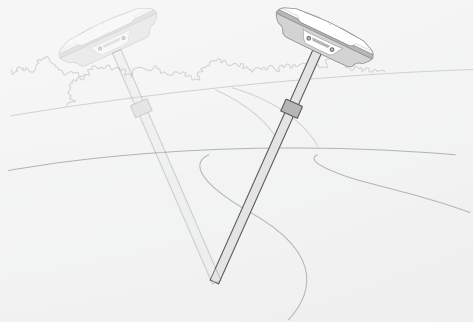
## EASIER 60°IMU Compensation

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.



# | R60 Data Collector

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

**5.5 inch** sunlight readable screen  
**1080P** HD display

Survive a 1.6m drop onto the  
concrete  
Anti-static design, excellent  
heat dissipation

Physic **full QWERTY** keyboard  
speeds up working efficiency

**5.0** Dual-mode Bluetooth, ultra long  
range Bluetooth connection

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

**4+64GB** Memory  
Open CAD drawing in seconds



Qualcomm



1080P Resolution



5.5" Display



Full QWERTY



Android 12



LARGE CAPACITY



IP67