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





CAD Basemap and Stake

Post-processing Software

SinoGNSS Compass solution software

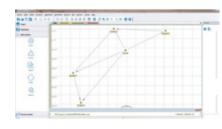
Provide the complete GPS/GLONASS/BeiDou/GALILEO post-processing solution

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







Venus Laser 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(Baseline≤10km) Initialization reliability: ≥99.9% Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz

Mo	de	Accuracy		
Sta	atic and Fast Static	Horizontal 2.5 mm + 0.5 ppm RMS Vertical 5 mm + 0.5 ppm RMS		
Sig	nal Baseline RTK	Horizontal 8mm + 1ppm RMS Vertical 15mm + 1ppm RMS		
DG	SPS .	< 0.4m RMS		
SB	AS	Horizontal 0.5 RMS Vertical 0.8 RMS		
Sta	andalone	1.5m 3D RMS		
Las	ser Tilt Measurement	\leq 5.5cm (2m range, \leq 60°Tilt in handheld 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, GGK -ComNav Binary update to 20 Hz

Electrical and Battery

Power Consumption: 1.45W Over Current Protection Voltage: 30V, VBUS 9.99V Charging Time: <4h(QC2.0) Working time: ≥20h

GNSS Surveying System

Ver.2022.11.20

Communication

Bluetooth: 5.0 Dual-Mode Bluetooth NFC: NFC Fast Connection Interface: USB TYPE-C

Environmental Specification

Working Temperature: -20 ℃ ~+60 ℃ Storage Temperature: -30 C ~+70 C Humidity: 100% non-condensing Water- & Dustproof: IP67 Shock: Survive a 2m drop onto the concrete Vibration: MIL-STD-810G Method 514.6 procedure

Physical Specification

Housing Material: Plastic Dimension: 80±1mm(L), 70±1mm(W), 150±1mm(H) Range Pole Interface: M8 thread

Laser Specification

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

Specifications subject to change without notice.

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LASER RTK - INNOVATION MAKES THE DIFFERENCE

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Features

LASER DISTANCE METER ENABLES RODLESS SURVEY

Innovatively equipped with a laser distance meter, Venus makes rod-free stakeout and measurement possible, greatly expanding the working scope.

	SATELLI	TE TRACKING	SATELLITE TRACKING		
	GPS	L1C/A, L1C, L2P, L2C, L5		QZSS	L1C/A, L2C, L5,L1C
*[:	BDS	B1I, B2I, B3I, B1C, B2a, B2b	⊚	IRNSS	L5
	GLONASS	G1, G2, G3	8	SBAS	L1C/A
	Galileo	E1, E5a, E5b, E6c, E5 AltBOC			

Laser Technology

The fusion of GNSS, IMU and laser technologies pushes working efficiency to the limits and ensures accuracy.



Full-Constellation Multi-Frequency

With 1590 channels and 50+ satellite tracking capabilities, Venus also supports SBAS PPP service. Getting fixed in seconds boosts your productivity.



The 3rd generation IMU supports 60° tilt compensation, allows 10-second initialization. No bubble check needed, survey as you will.

Robust Design

Built to IP67 standards, Venus is

waterproof and dustproof, completely

workable even in harsh environments.



Venus is ergonomically designed for easy carrying. The 380g GNSS receiver with sophisticated structure minimizes user fatigue.



Venus Laser RTK can be connected automatically with a single touch.



Venus Laser RTK

Venus is an innovative GNSS receiver combined with laser and IMU. Laser distance meter makes rodless survey possible, enabling GNSS surveying beyond usual constraints. IMU achieves 60° tilt compensation in both traditional and laser modes, supports free calibration and 10-second initialization.

Integrated the SinoGNSS K8 platform, Venus features full-constellation with 1590 channels, providing high-precision measurement results even in harsh environments.























R60 Data Collector







1080P Resolution



5.5" Display











LARGE CAPACITY

IP67