

THICKNESS

670g

WEIGHT

N2 Palm RTK N Series GNSS Receiver

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

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N2 Palm RTK

GNSS Surveying System

Ver.2023.8.22

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, AVR; 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: ≥20h

Interface

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

Communication

BT5.0 Dual-Mode BT

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

- Transmit power: 0.5W, 1W, 2W adjustable
- Air Baud Rate: 9600 / 19200 adjustable
- Range²: 15 km

Environmental

Working Temperature: -30 °C ~+65 °CStorage Temperature: -40 °C ~+85 °CHumidity: 100% non-condensingWater- & Dustproof: IP67Shock: 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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In-built IMU supports 60° tilt compensation. Get precise measurement results without the bubble check.

EASIER 60°IMU Compensation

Once calibrated, tilt measurements with centimeter-level accuracy last a long time, which improves the working efficiency.

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

60°



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



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







N2 Palm RTK

FULL-CONSTELLATION & FULL-FREQUENCY TRACKING

With 1590 channels and 50+ satellite tracking capabilities, N2 has excellent performance under harsh conditions.

SATELLITE TRACKING			SATELLITE TRACKING		
	GPS	L1C/A, L1C, L2P, L2C, L5		Galileo	E1, E5a, E5b, E6c, E5 AltBOC
*1	BDS	B1I, B2I, B3I, B1C, B2a, B2b		QZSS	L1C/A, L2C, L5,L1C
	GLONASS	G1, G2, G3	۲	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.



STRONGER PERFORMANCE

Integrated SinoGNSS K8 high-precision module and third generation IMU, N2 Palm RTK can reach high accuracy even in harsh environments, ensuring the quality of work.



NFC FAST CONNECTION

N2 Palm RTK can be connected automatically with a single touch.



LONGER WORKING RANGE

The built-in datalink module has a super long working distance of up to 15KM. N2 can be switched as a rover or base at will.



LONGER BATTERY LIFE

The 10000mAh high-capacity lithium battery inside can be quickly charged within 5 hours and can work continuously for more than 20 hours at maximum intensity.



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