Software

Survey Master

Compatible with most of Android devices

Easier survey workflow via Wizard function

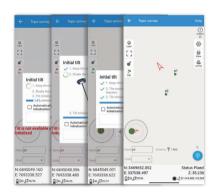
Support up to 60° IMU tilt compensation

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









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CAD Basemap and Stake

Post-processing Software

IMU Tilt Survey

SinoGNSS Compass solution software

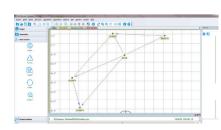
Provide the complete GPS/GLONASS/BeiDou/GALILEO post-processing solution

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

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







N5 GNSS Receiver

Signal Tracking -

1198 channels for simultaneously tracking satellite signals GPS: L1C/A, L2C, L2P, L5 BeiDou: B1I, B2I, B3I, B1C, B2a, B2b GLONASS: L1. L2 Galileo: E1, E5a, E5b, E6, AltBOC QZSS: L1C/A, L1C, L2C, L5

SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM, BDSBAS

Performance Specifications

Cold start: <50 s Warm start: <30 s Hot start: <15 s Initialization time: <10 s Singal re-acquisition: <1.5 s Initialization reliability: >99.9%

Positioning Specifications

Mode	Accuracy
Static and Fast Static	2.5 mm + 0.5 ppm Horizontal 5 mm + 0.5 ppm Vertical
Long Observations Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical
Real Time Kinematic	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS
PPP	10cm Horizontal and 20cm Vertical

Communications

- 1 Serial port (7 pin Lemo)
- Baud rates up to 921,600 bps
- Enhanced UHF modem²: Tx/Rx with full frequency range from 410-470 MHz³
- Transmit power: 0.5-2 W adjustable
- Range: 15 km⁴
- WIFI/4G modem
- 4G Bands: 800/900/1800/2100/2600 MHz
- 3G Bands: 900/2100 MHz
- 2G Bands: 900/1800 MHz
- Support GSM, Point to Point/Points and NTRIF
- Position data output rates: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz
- 2 LEDs (indicating Satellites Tracking and RTK Corrections data) 1 OLED Display and 2 Function buttons
- Bluetooth®: V 4.0 protocol, compatible with Windows OS and Android OS
- Calibration-free IMU integrated for Tilt Survey
- Up to 60°tilt with 2.5 cm accuracy

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, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GGK

GNSS Surveying System

Ver.2021.10.20

- ComNav Binary update to 20 Hz

Physical -

Size(W × H): Φ 15.5 cm × 7.3 cm Weight: 1.2 kg with two batteries

Environmental

Operating temperature: -40 °C to + 65 °C (-40 °F to 149 °F) Storage temperature: -40 °C to + 85 °C (-40 °F to 185 °F) Humidity: 100% non-condensing

Waterproof and dustproof: IP67, protected from temporary immersion

Shock: Designed to survive a 2 m drop onto concrete

Electrical and Memory

Input voltage: 7-28 VDC Power consumption: 1.7 W⁵

Li-ion battery capacity: 2 × 3400 mAh, up to 25 hours typically Memory: 8 GB⁶

Software

Survey Master Android-based data collection software Carlson SurvCE field data collection software (optional) MicroSurvey FieldGenius field data collection software (optional)

- 1. PPP service is optional.
- 2. UHF modem is default configuration and it can be removed according to your specific needs.
- 3. Integrated UHF ranges from 410 to 470 MHz with 12.5 KHz channel spacing. 4. Working distance of internal UHF varies in different environments, the
- maximum distance is 15 Km in ideal situation.
- 5. Power consumption will increase if transmitting corrections via internal UHF. 6. 8GB is the default internal memory and optional 16GB, 32GB is available to

Specifications	subject to	change	without	notice
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order. Please clarify when placing the order.

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A reliable IMU RTK receiver you can really count on in the field!*

GNSS RECEIVER

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*From our filed testing statistics, with the IMU will increasing over 20% surveying productivity.

N5 IMU RTK

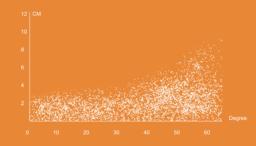
Jp to 60° tilting compensation, no need to center the bubble, enable o measure quickly and acquire the precise position easily.

More Flexible



With in-built IMU and adopted self-developed core algorithm, the N5 IMU GNSS Receiver is free of magnetic interference and calibration, and can brings the accurate and reliable surveying results.

More Reliable



One-time adjustment for successive tilting measurement with centimeter-level accuracy increase work efficiency.

More Efficient



Features



Full constellations tracking

Powerful tracking capability with 1198 Channels Support all current and future GNSS constellations Improved fixed rate by integrated with new anti-interference algorithm technology



Enhanced OLED Display

Sunlight readability for a clear, easy-to read viewing experience
Handle all of surveying operations on screen freely



6800mAh Large Li-battery Enh

Last over 25hrs' work time. Support mobile charging, no worry about power-off



Enhanced UHF* for long range

Up to 15km work range with 2W power consumption Integrated UHF ranges from 410 to 470 MHz with 12.5 KHz channel spacing



Rugged housing

IP 67 waterproof and dustproof Survive a 2m drop onto concrete



Web-based UI

Available for users to check receiver status via the web UI.

Easily download the static data without connecting cable



Industry-leading low power consumption

1.7w power consumption in static mode, which prolongs working time and reduces heat generation



Seamlessly Work with GNSS Network RTK Corrections

Perfectly work with all kinds of CORS worldwide with in-built 4G modem

R550 Data Collector















^{*} UHF is removable according to specifc regulation in different countries.