

Survey Master

Compatible with most of Android devices

Easier survey workflow via Wizard function

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 direct use for stake out operations

Support Convert function from ComNavBinary raw file to RINEX

Support remote assistance, cloud storage, and seamless data sharing

Support DXF, SHP, KML, GPX, and Google Maps for seamless basemap visualization

Support connection with ComNavTech devices and NMEA devices

Support multiple languages and multi-country coordinate systems

Optional



Microsurvey FieldGenius

Android

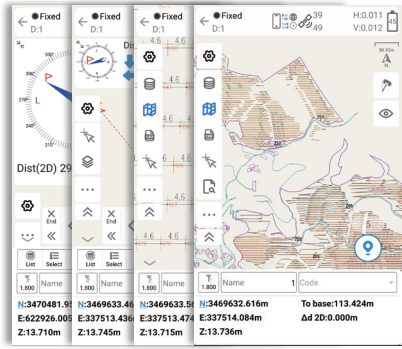


Microsurvey FieldGenius

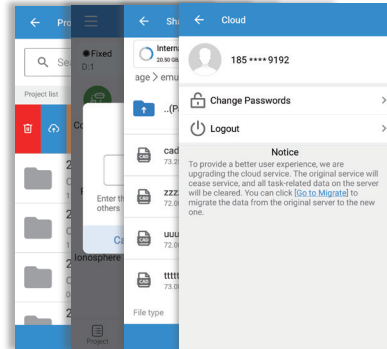
Windows



Laser Visual Surver&Stakeout



CAD Basemap and Stake



Cloud Service

Post-processing Software

SinoGNSS Compass solution software

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

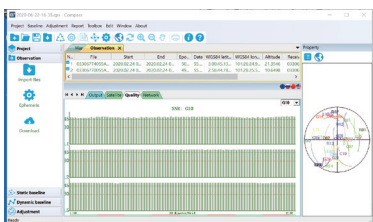
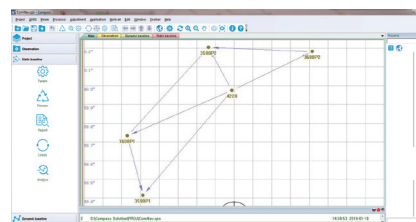
Support GNSS observation data in RINEX and ComNav Raw Binary Data format

Support different post-processing in static and kinematic modes

Output analysis reports in various formats (web format, DXF, TXT, KML)

Supports DJI's UAV data format. Processing results can be imported into photogrammetry and

3D modeling software directly



Jupiter GNSS Receiver

GNSS Surveying System

Ver.2025.08.06

Signal Tracking

Channel: 1668

GPS: L1C/A, L1C, L2P, L2C, L5

BDS: B1I, B2I, B3I, B1C, B2a, B2b

GLONASS: L1, L2, L3

Galileo: E1, E5a, E5b, E6c, E5 AltBOC

QZSS: L1C/A, L2C, L5, L1C

IRNSS: L5

SBAS: L1C/A

PPP: B2b & HAS

L-Band¹

Performance Specification

Signal Re-acquisition: ≤1s

Cold Start: ≤30s

Hot Start: ≤10s

RTK Initialization Time: < 5s(Baseline≤10km)

Initialization Reliability: ≥99.99%

Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz

Mode	Accuracy
Static and Fast Static	Horizontal 2.5 mm + 0.5 ppm RMS Vertical 5 mm + 0.5 ppm RMS
Long Observations Static	3 mm + 0.1 ppm Horizontal 3.5 mm + 0.4 ppm Vertical
Signal Baseline RTK	Horizontal 8mm + 1ppm RMS Vertical 15mm + 1ppm RMS
DGPS	< 0.4m RMS
SBAS	Horizontal 0.5 RMS Vertical 0.8 RMS
Standalone	1.5m 3D RMS
Laser Tilt Measurement	≤3.5cm (5m range, ≤60°Tilt in laser 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, GGK

-ComNav Binary update to 20 Hz

Electrical and Battery

Voltage: 7.2V

Li-ion Battery Capacity: 5000mAh

Power Consumption: 1.8W⁴

Working Time: 16h

Interface: Type-C

Memory: 4 GB⁵

Communication

1 Serial port: Baud rates up to 921,600 bps

Datalink²:

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

- Transmit power: 0.5W, 1W, 2W adjustable

- Air Baud Rate: 9600/19200/11000 adjustable

- Range³: 3-15 km

- Protocol type: support Transparent/TT450S/South/Mac/SNLonglink, compatible with all the ComNavTech GNSS Receivers

WiFi: 802.11 a/b/g/n, 5GHz

Position data output rates: 1Hz, 2Hz, 5 Hz, 10 Hz, 20 Hz

2 LEDs (indicating Satellites Tracking and RTK Corrections data)

Bluetooth[®] : V 4.0 protocol, compatible with Windows OS and

Android OS

Auto-IMU integrated for tilt survey, up to 120°tilt with 2.5 cm accuracy

Environmental Specification

Working Temperature: -40 C to +65 C (-72°F to 117°F)

Storage Temperature: -40 C to +85 C (-72°F to 153°F)

Humidity: 100% non-condensing

Water- & Dustproof: IP67

Shock: Survive a 2m drop onto the concrete

Physical Specification

Housing Material: Aluminium magnesium alloy

Dimension: Φ 13.35 cm x 6.6 cm

Weight: 810g, with internal battery

Display: 1.1 inch OLED color display

Laser Specification

Range: 50m

Laser Safety: Class 3R

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

Camera Specification

Sensor pixels: 2 cameras with 2 MP global shutter

Field of view: 75°

Video frame rate: 30 fps

Image group capture:

- Rate: typically 2 Hz, up to 25Hz

- Max. capture time: 60s with an image group size of appr. 60MB

1. PPP Service is optional.
2. UHF modem is default configuration and it can be removed according to your specific needs.
3. Working distance of internal UHF varies in different environments and also depends on the protocols. With SNLonglink, 15km working range is achievable under ideal conditions.
4. Power consumption will increase when transmitting corrections via internal UHF.
5. Memory is expandable.

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SinoGNSS



Jupiter Laser RTK

Universe Series GNSS Receiver

LASER RTK - INNOVATION MAKES A DIFFERENCE

| Features

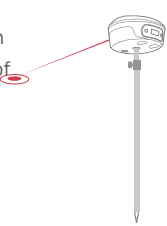
Seamless Fusion of Laser & Dual-Camera for Next-Level Surveying & Stakeout

Jupiter, an IMU GNSS receiver with advanced laser sensor and dual-camera technologies, stands out as one of the most sophisticated and highly-configured GNSS receivers available on the market. Whether used for surveying or stakeout, it delivers an immersive user experience.

SATELLITE 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	L1, L2, L3		SBAS	L1C/A
	Galileo	E1, E5a, E5b, E6c, E5 AltBOC			

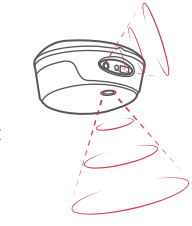
Laser Technology

Jupiter's precise green laser, visible even in daylight, enables accurate measurement of points where using range pole is not feasible. Additionally, the built-in camera overcomes the challenge of targeting points that are too distant to be seen with naked eyes, making field operations faster and more efficient.



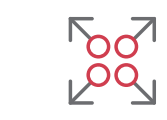
Visual Stakeout

With Jupiter's camera, surveyors gain a 3D visual view on Survey Master software. By simply following the directional arrow and real-time distance, with the stakeout point marked directly on the ground, even less experienced operators can stake out points in one go, without moving the pole back and forth.



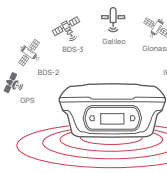
Super Datalink

Jupiter's compatibility has been further enhanced. The advanced datalink allows working with all types of GNSS receivers of ComNavTech and receivers of other mainstream brands, and supports a number of protocols, incl. Transparent /TT450S/South/Mac/SNLonglink. With SNLonglink, 15km working range is achievable under ideal conditions.



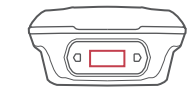
Full-Constellation Multi-Frequency

With 1688 channels and 60+ satellites tracking capabilities, Jupiter can get fixed in seconds, boosting your productivity. It also support PPP (HAS & B2B) function.



OLED Color Screen

The OLED color screen visually displays the number of satellites searched, fixed state, on/off state, power and other information, which is convenient for surveyors to control.



| Jupiter Laser RTK

Jupiter Laser RTK is a high-end GNSS receiver that integrates cutting-edge GNSS, IMU, Laser and dual-camera technologies. Building on the advanced laser technology of the Universe Series, Jupiter also incorporates SinoGNSS's latest visual stake-out technology. This combination brings out immersive surveying and stakeout experiences, even in previously hard-to-reach, signal-blocked, or dangerous field.

Equipped with the latest K8 platform, Jupiter tracks 1668 channels for all running and existing constellations. The built-in IMU sensor supports up to 120° tilt compensation, in conventional, laser and visual mode.

SinoGNSS
K8 Module

All-in-one
Board

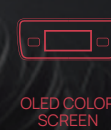
OLED
Color Screen

Aluminium
Magnesium
Alloy Housing

Millimeter Level
Laser

Streamlined
Camera

Versatile
Camera



| R80 Data Collector

6" Touch Display with
720*1080 Resolution,
500 nits Brightness

8-Core Processor
4+64 GB Memory

Android 12.0
Operating System

IP67 Waterproof
and Dustproof

Elegant yet Powerful New Design,
Featuring **13-Megapixel** Camera

Support **4G**,
Ultra-Distance
Bluetooth®,
Wi-Fi, **NFC**

9000mAh Li-Polymer
Battery, Support QC &
PD Fast Charging

2 Side-mounted Data
Collection Buttons

White Backlight Keyboard
with **51** Buttons



Qualcomm



1080P Resolution



6" Display



Full QWERTY



Android 12



QC Quick Charging



IP67