ComNav Jupiter Laser RTK







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SinoGNSS
By ComNav Technology Ltd.

? Jupiter Laser RTK ????? ???? ?????? GNSS ?????? ??????????? ??? ??????????? ??????????? ?????? **GNSS, IMU**, **Laser** ??? **?????? ???????**. ?????????? ???? ????????? ?????????? ?????? ??? ?????? Universe, ? Jupiter ??????????? ?????? ??? ????????? ?????????? **???????? ????????** ??? SinoGNSS. ????? ? ?????????? ????????? ??????????? ????????? ??????????? ??? ???????, ????? ??? ?? ???????????? ??????????, ?? ???????????? ???? ? ?????????? ?????.

SinoGNSS
By ComNav Technology Ltd.

- Precise green laser and built-in camera allow precise measurement of distant or hard-to-reach points
- Supports tracking 1668 channels for all running and existing constellations
- Dual-camera technology enhances visual stakeout with real-time 3D guidance for efficient operations

- Auto-IMU enables 120° tilt compensation in conventional, laser, and visual modes without manual initialization
- Super datalink supports multiple protocols and achieves a 15km range with SNLonglink under ideal conditions
- An OLED color screen shows satellite status, power, and more for easy field monitoring

Laser Technology
Jupiter Laser RTK's green laser offers a 50-meter range and daylight visibility, ensuring accurate measurements in challenging areas like hard-to-reach, signal-blocked, or hazardous locations beyond range pole access.

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.

Auto-IMU
Jupiter is equipped with Auto- IMU, eliminating the need for manual initialization, supporting automatic calibration, and streamlining the operations in the field. It continues to support 120° compensation in conventional, laser and visual modes

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 1668 channels and 60+ satellites tracking capabilities, Jupiter can get fixed in seconds, boosting your productivity. It also support PPP (HAS & B2B) function.

Product Parameter

- Channel: 1668
- **Satellites tracking:**

  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-Band

- **Signal Re-acquisition:** ?1s

- **Cold Start:** ?30s
- **Hot start:** ?10s
- **RTK Initialization Time:** <5s(Baseline?10km)
- I**nitialization Reliability:** ?99.9%
- Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz
-
- **Static and Fast Static**

  Horizontal 2.5 mm + 0.5 ppm RMS
  Vertical 5 mm + 0.5 ppm RMS
-
- **Long Observations Static**

  Horizontal 3.0 mm + 0.1 ppm RMS
  Vertical 3.5 mm + 0.4 ppm RMS

Single Baseline RTK

Horizontal 8mm + 1ppm RMS
Vertical 15mm + 1ppm RMS

- **DGPS:** ?0.4m RMS

SBAS

Horizontal 0.5m RMS
Vertical 0.8m RMS

- **Standalone:** 1.5m 3D RMS
- **Laser Tilt Measurement:** ?3.5cm (5m range, ?60°Tilt in laser mode)

