

## ComNav Jupiter Laser RTK



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- 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)
- **Initialization Reliability:** ?99.9%
- Data Update Rate: 1Hz, 2Hz, 5Hz, 10Hz, 20Hz
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- **Static and Fast Static**  
Horizontal 2.5 mm + 0.5 ppm RMS  
Vertical 5 mm + 0.5 ppm RMS
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- **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)

