



# ProTrack

The Topographic Survey Solution by  
Analist Group



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Analist Group introduces the Topographic Survey Solution, consisting of **ProTrack**, the powerful and compact high-performance GNSS Rover, and Analist, the Software Powered with Autodesk Technology enriched with extraordinary features for GPS surveying.

ProTrack is the GNSS Rover designed to provide accurate and user-friendly positioning solutions, particularly suitable for precision applications such as precision agriculture, mapping, topography, and industrial automation

Activate Bluetooth on your device, locate your ProTrack, and launch the Android app (soon available for iOS) that manages the entire fieldwork process, including receiver settings, data collection, encoding, line tracking, and placement.

## ProTrack: Specifications and Features

### RTK GNSS Module

- ProTrack supports Real-Time Kinematic (RTK) technology, enabling centimeter-level real-time positioning. By using differential corrections from GNSS reference stations, the module achieves extremely high positioning accuracy.

### Multi-Constellation GNSS Support

- The module is compatible with the most common satellite constellations, ensuring better satellite coverage and improved accuracy even in challenging environments.

### Multi-Band Integrated Antenna

- ProTrack includes an integrated GNSS antenna that delivers exceptional reception performance in a compact and lightweight design. The antenna is designed to minimize interference and enhance signal quality, providing stable signal reception and extended L-band coverage.
- The antenna enables the receiver to process signals from GPS, GLONASS, Galileo, BeiDou, and QZSS constellations, resulting in better signal reception from satellite navigation systems and higher positioning accuracy.

### Versatile Communication Interface

- The module supports various communication interfaces to facilitate seamless integration with existing devices and systems.

### Features

- Point acquisition, creation of virtual points for simple and effective modeling, straightforward and intuitive square functions.

### Easy Configuration and Use

- ProTrack is managed by the Analist GNSS Mobile application, which is extremely user-friendly for surveying and point tracking in the field.

### Processing with Analist 2024

- The acquired data is processed by Analist 2024-RTK, enabling integration with the full power of the Analist system and, if needed, transfer to ProTrack for tracking operations.

### Low Power Consumption

- Thanks to its optimized design, ProTrack offers low power consumption, allowing for extended field use.

### Connection to Existing Networks

- ProTrack connects to all stations equipped with the NTRIP protocol, such as ItaiPOS and regional networks available virtually everywhere. An active account with login and password is naturally required.

## Technical Specifications

- **Module Type:** GNSS RTK
- **Multi-Band Integrated Antenna**
- **Supported Constellations:** GPS, GLONASS, Galileo, BeiDou, SBAS
- **Accuracy:** Real-time centimeter-level (with RTK corrections)
- **Power Supply:** Onboard rechargeable

### Centimeter-level Accuracy

- <1cm with a base station up to 35km
- <1cm with NTRIP up to 35km
- <4cm with SSR corrections
- <1.5m in standalone mode
- <0.9m in autonomous mode with SBAS coverage

### Update Frequency

- **Default:** 1Hz
- **Multi-Band:** L1, L2, and E5b support

**Number of Channels:** 184

### Multi-Frequency and Multi-Constellation Support:

- **GPS:** L1C/A L2C
- **GLONASS:** L1OF L2OF
- **Galileo:** E1-B/C E5b
- **BeiDou:** B1I B2I
- **QZSS:** L1C/A L2C
- **SBAS:** WAAS, EGNOS, MSAS, GAGAN e SouthPAN

**Startup Times:**

- **First position fix:** 25 seconds (cold), 2 seconds (warm)
- **First RTK fix:** 35 seconds (cold)

**Interfaces:**

- USB C
- Bluetooth
- **Operating Temperature:** from -40 to +85 degrees Celsius

**For further  
information:**

