



MINU

PORTABLE SMART ANTENNA FOR GIS APPLICATIONS

Proudly developed on a brand-new platform, the RinoNav MINU is an all-new, easy-to-use, wearable, portable smart antenna that provides professional-level positioning data to any Android & iOS devices.

Full Constellations and Multi-frequency

The MINU supports BDS/GPS/GLONASS/Galileo/QZSS constellations, comprehensive GNSS signal trackings, 1408 channels, and fully supports BDS-3.

All-in-view RTK Positioning

Embedded with a high-precision GNSS module, the MINU supports centimeter-level CORS differential data positioning. Enjoy lightning speed of fixed positioning, cold start $\leq 30s$, hot start $\leq 3s$.

High-performance Integrated Antenna

With a customized high-gain quadrifilar helix antenna and a built-in Bluetooth feature, the MINU can be easily connected to any handheld devices. No need for expensive and heavy data collectors anymore.

Ideal for Multiple Applications

The MINU is competent for various survey & lofting tasks, for example, road construction, power line survey, site leveling control, CAD application, etc.

Rugged, Compact, and Portable Design

The MINU is designed to work in the toughest environments. It presents great heat dispersion and weighs 220g, which is ideal for mobile surveys. Thanks to its IP67 protection, the MINU has the highest level of dust protection and is able to withstand low-pressure water jets from all directions. Carry the MINU in an armband bag or a shirt pocket using its metal clip on the back, or use an external connector to attach it to a survey pole - enjoy flexible wearable modes to make your job even easier.

Max 90° Tilt Survey: A Different Way of Working

With MINU's tilt accuracy thanks to its RTK fixed solution, you can count on results that are precise to within 1.5 cm at angles between 0-60° (and still a remarkable 2.0 cm at angles up to 90°) - all in a sleek, wearable package that you can take with you anywhere you go. Upgrade your positioning solutions with MINU.

Product Specification

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GNSS Performance

| | |
|---------------------|--|
| Channels | 1408 |
| Satellites tracking | <ul style="list-style-type: none">■ GPS: L1C/A, L2P(Y), L2C, L5■ GLONASS: L1, L2■ GALILEO: E1, E5a, E5b■ BDS: B1I, B2I, B3I, B1C, B2a, B2b1■ QZSS: L1, L2, L5t■ SBAS: Support |
| Position accuracy | <ul style="list-style-type: none">■ H: $\pm (8+10^{-6} \times D)$ mm■ V: $\pm (15+10^{-6} \times D)$ mm Tilt accuracy with RTK fixed solution: 0°~60°: 1.5 cm 60°~90°: 2.0 cm |
| Cold start | ≤ 30 seconds |
| Hot start | ≤ 3 seconds |
| Speed accuracy | ≤ 0.03 m/s |

Electrical

| | |
|---------------|--|
| Battery | Built-in, Non-replacable, Lithium Polymer Battery 3.7V / 5200 mAh. |
| Working time | ≥ 15 hours |
| Input voltage | 5V dc / 2A |

Data Interface

| | |
|-------------|---------------|
| Bluetooth | Yes |
| Type-C port | 1 Type-C port |
| ROM | 8 GB |

User Interface

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|-----------|--|
| Button | Power button x1 |
| Indicator | <ul style="list-style-type: none">■ Power indicator x1■ Bluetooth indicator x1■ Satellite indicator x1 |

Physical

| | |
|-----------|-----------------------|
| Dimension | 135 mm x 42mm x 64 mm |
| Weight | ≤ 220 g |

Environment

| | |
|-----------------------|---------------------|
| Operating temperature | -20°C - +60°C |
| Storage temperature | -40°C - +85°C |
| Water/dust-proof | IP67 |
| Shock resistance | 1.6 m free drop |
| Humidity | 95% No condensation |