



CAPSUOR

PORTABLE SMART ANTENNA FOR GIS APPLICATIONS

Proudly developed on a brand-new platform, the Capsuor 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 Capsuor support 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 Capsuor 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 Capsuor can be easily connected to any handheld devices. No need for expensive and heavy data collectors anymore.

Ideal for Multiple Applications

The Capsuor 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 Capsuor 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 Capsuor has the highest level of dust protection and is able to withstand low-pressure water jets from all directions. Carry the Capsuor 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 Capsuor's tilt accuracy thanks to its RTK fixed solution, you can count on result 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-replaceable, Lithium Polymer Battery 3.7V / 4000 mAh.
Working time	≥12 hours
Input voltage	5V dc / 2A

Data interface	
Bluetooth	Yes
Type-C port	1 Type-C port
ROM	8 GB

User Interface	
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



Forest it Design

Forest it Design is a leading provider of rugged mobile computers, all-in-One PC:s, measurement instruments and GPS/GNSS solutions. The company has offices in Sweden, UK, Germany and Finland.

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