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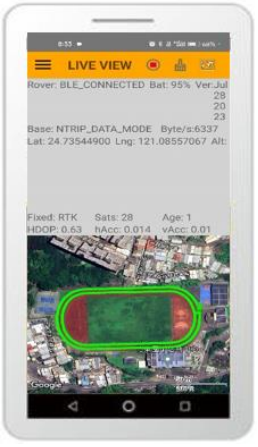
RTK rover and base receivers support centimeter level positioning

The basic GPS (Global Positioning Systems) or enhanced GNSS (Global Navigation Satellite Systems) are suitable for general navigation and tracking applications with around 2-meter accuracy. Some applications like UAV (Unmanned aerial vehicle), precision farming, measurement, construction, etc. may need high precision positioning. The RTK (Real-time kinematic) technology is adopted to achieve such centimeter accuracy.

The RTK uses measurements of the phase of the received satellites' signal's carrier wave, and relies on the reference base station to provide real-time corrections, providing the centimeter level accuracy to the rover receiver.

Designed with u-blox **ZED-F9P** module and supports GNSS L1/L2 dual-band, Navisys launched a series of high precision RTK receivers- GR-901、GR-9028、GR-9029 and GR-903.

GR-901 and **GR-903** are all-in-one receivers that are plug and play. In addition, they can act as base receiver or rover receiver. GR-901 can be used by connecting to a USB port of the computer. It also supports RS232/UART TTL interface. GR-903 has one more Bluetooth SPP feature than GR-901, which makes it easy to connect to smartphones for applications.



GR-9028 and **GR-9029** are ideal for portable applications. The built-in rechargeable batteries provide long-lasting power, and the support for the latest BLE 5.2 standard ensure a fast and more reliable connection. GR-9028 works as a base receiver to send the correction data to a moving receiver. GR-9029 plays as a rover receiver. In addition to requiring correction data from a free NTRIP caster, it can also work with partner GR-9028 via BLE without the need of an internet connection. Moreover, GR-9029 is available for POI tagging.

BLERTK Apps for iOS and Android are available for configuring GR-9028 and GR-9029. This allows smartphones, tablets, notebooks, and other BLE-enabled devices to communicate seamlessly with GR-9028 and GR-9029.