# RTK C313

380g

**18h**
CORS Mode

**15h**
Radio Receiving Mode

**8h**
Radio Transmitting Mode

Anti-block

Instant fix

high precision

## 24 frequencies of the 7 major satellite systems

**All-satellites full-frequency 8cm positioning antenna**

With High frequency microwave radiation carrier and electromagnetic band gap technology, combined four feed points phase center design and high-gain wide beam, RTK C313 can get instant fixed solution in low elevation and complicated situations.
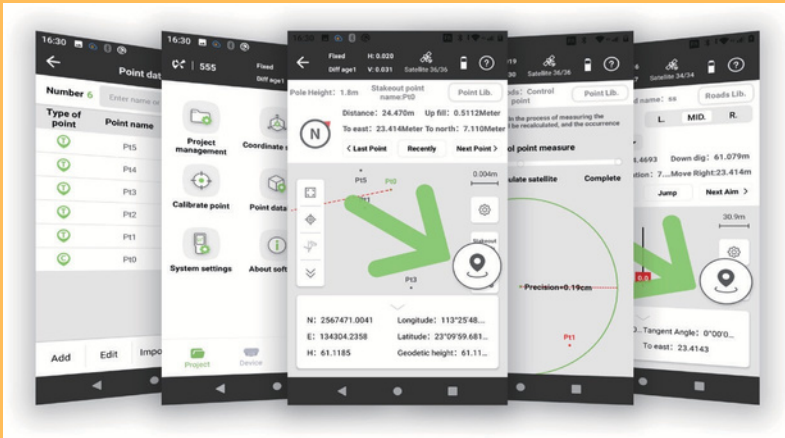
**The latest generation of global positioning SoC chip**

Integrated with the latest generation NebulasIV radio frequency baseband and high-precision algorithm, the latest SoC chip supports all-satellites full-frequency computation algorithms.
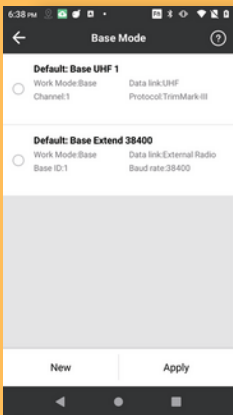
**Embedded real-time operating system RTOS**

Embedded military class real-time operating system RTOS for the first time, RTK C313 can fully satisfy RTK development requirement and is more compatible with IoT application scenario. RTOS system is widely used in spacecrafts, missiles, robots
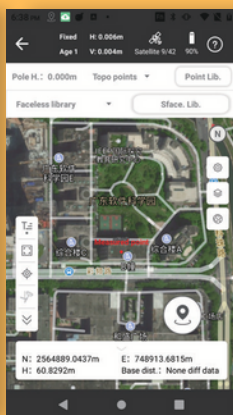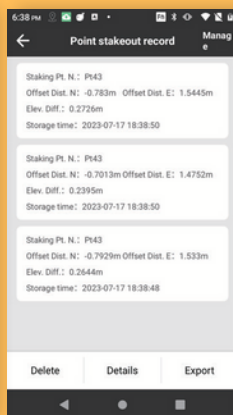
# GeoFind (surveying software)



GeoFind has gone through deep iterations and gained a deep understanding of user survey habits. With built-in rich surveying modules and cloud integration, GeoFind is professional, intelligent and easy-to-use.



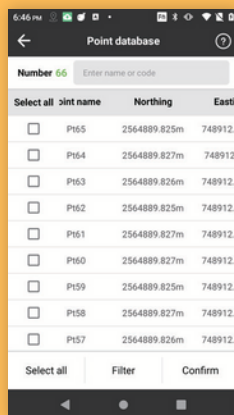Base station and rover station configuration linkage



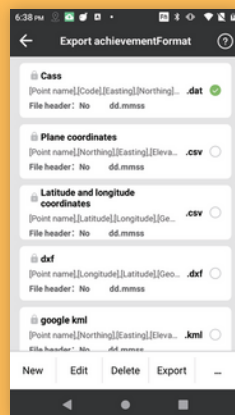Large scale basemap import and full display for survey and stakeout



Separate management of stakeout records, one click export of record reports



CAD drawing recognition, high efficiency in editing and stakeout



Select multiple points you want to use from points database



Various data formats available to export, such as csv, dxf, kml, etc

# Controller

**Professional Kit**
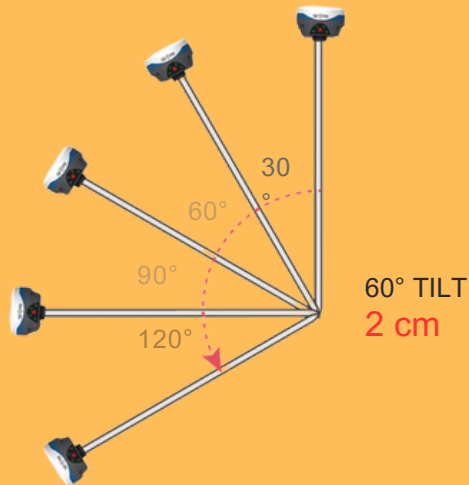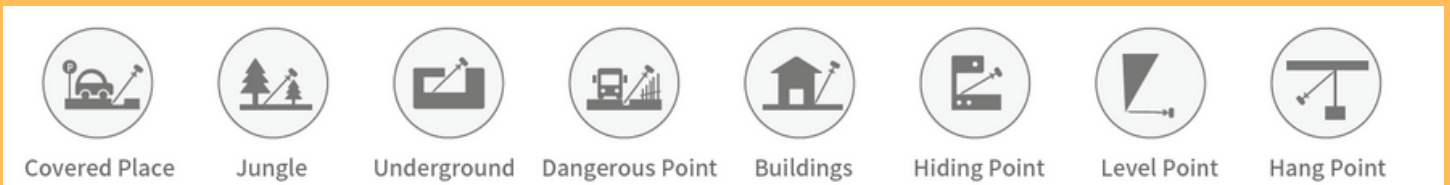


## Rocky G6 Technical Indicators

**OS**: **Android 10.0**     (supports OTA upgrade)

**CPU**: **8 cores 2.0Ghz**

**RAM**: **4G DDR4 + 64G**

**SIM Card Type**: **NanoSIM 4G**

**Screen**: **5-inch, high-brightness, touchable**

**Bluetooth**: **BT 5.0 BLE**

**Battery**: **5200mAh Up to 20 hours**

**Keyboard**: **12 buttons, backlight keyboard**

**Weight**: **335g**

# Android Phones

**Install GeoFind, bluetooth access operation**

# 90° Inertial Navigation

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Covered Place | Jungle | Underground | Dangerous Point | Buildings | Hiding Point | Level Point | Hang Point |

30°
60°
90°
120°

60° TILT
**2 cm**

Fast initialization IMU, support tilt measurement with 2CM accuracy when tilt angle 60°. IMU can still work in tilt angle 90° even 120°

# Greater Convenience

### Hard Plastic Box
Industrial-grade small hard plastic box, 27*23*11cm.

### Fast Charging
Power delivery, supports operation with external power banks.

### IP67
IP67 dustproof and waterproof, comes with protective rubber gasket, drop-resistant up to 1.5 meters with the pole.

### Centering Rod
1.5m portable centering rod,collapses to 50cm.

### Colorful Protection Ring (Optional)
Various colorful Protection ring can be selected to make surveying a interesting jobmeters with the pole.

### Carrying Bag (Optional)
Optional carrying bag is with ergonomic design, you can use it take RTK C313 or bottled water

### Controller Holder
capable of holding a mobile phone

### Satellite Differential Service (Upgrading)
Support PPP service for free, can finish convergence in 15mins to get 10cm accuracy

# Specifications

| | | |
|---|---|---|
| **GNSS** | Channels | 1408 |
| | Signal Tracking | GPS: L1C/A, L1C, L2C, L2P, L5 |
| | | BDS: B1I, B2I, B3I, B1C, B2a, B2b |
| | | GLONASS: G1, G2, G3 |
| | | Galileo: E1, E5a, E5b, E6 |
| | | QZSS: L1C/A, L1C, L2C, L5 |
| | | SBAS: L1 |
| | | NAVIC:L5 |
| | High Precision Static | H：±（2.5+0.5×10-6D）mm |
| | | V：±（5+0.5×10-6D）mm |
| | RTK | H：±（8+1×10-6D）mm |
| | | V：±（15+1×10-6D）mm |
| **Tilt Compensation** | Accuracy | ±（8+0.3TILT）mm |
| | Angle | 0~120° |
| | Update Rate | 100Hz |
| **System Parameters** | System | RTOS |
| | ROM | 8G |
| | Data Record | DAT |
| | Bluetooth | BT 5.0 Bcakward compatibility |
| **Radio** | Power | 1W |
| | Frequency | 410-470MHz |
| | Global Communication Protocol | TRIMTALK 450S 、TRIMMARKⅢ 、SOUTH9600、SOUTH19200、SATEL9600、SATEL19200、TRANSPARENT |
| | Mode | Transceiver |
| **Power** | Voltage | 5-12V Power Delivery |
| | Working Time | 18h（Network Mode）、15h（Radio Reception）、8h（Radio Transmission） |
| **Port Indicator** | SMA | Connecting the radio antenna |
| | Type-C | For charging & Data connection |
| | Indicator Lights | satellite, datalink, bluetooth, battery light |
| **Physical** | Dimension | 98mm*53mm(Excluding 5/8 pin interfac |
| | Weight | 380g |
| **Environmental** | Operating Temperature | -30℃ ～ +70℃ |
| | StorageTemperature | -40℃ ～ +80℃ |
| | Water/Dust Proof | IP67 |
| | Shock | Survive a 2m drop on concrete floor, 1.2m free drop |
| | Humidity | Up to 100% |

*The above technical parameters are for your reference.The company reserves the right to change the design and planning of the product based on the actual product.