

R10

GNSS Receiver

Handheld RTK Receiver for agricultural marking and various surveying application



WHY CHOOSE ALLYNAV R10 GNSS RECEIVER

The R10 GNSS receiver is widely used in various fields requiring high precision positioning, including land surveying, construction engineering, precision agriculture, environmental monitoring, geological exploration, transportation, public safety, and marine hydrology. It is an essential tool for professionals seeking to improve work efficiency and data accuracy.

KEY FEATURES



High Precision Positioning:

Delivers centimeter-level accuracy for reliable and precise data in various applications.



Compact and Portable:

Weighs only 0.55kg, making it easy to carry and handle during fieldwork.



Multi-System Compatibility:

Integrates GPS, GLONASS, Galileo, and BeiDou systems, enhancing global positioning reliability.



Flexible Usage:

Can be handheld or mounted on a survey pole, with easy connectivity to Android devices via Bluetooth.



Durable Design:

Features a rugged, waterproof, dustproof, and shock-resistant design, suitable for harsh environments.



Advanced Signal Processing:

Maintains high accuracy in challenging environments like urban canyons and dense forests.



Long Battery Life:

Equipped with a 4800mAh battery, providing over 16 hours of continuous operation.

BENEFITS

● Cost-Effective

Reduces measurement errors and rework, improving efficiency and lowering operational costs.

● Versatile Applications

Suitable for various fields including land surveying, precision agriculture, and environmental monitoring.

● Reliable Data

Provides stable and accurate positioning data, essential for informed decision-making and successful project execution.

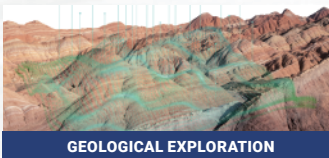
● User-Friendly

Simplified interface and robust data processing capabilities enhance user experience and productivity.

SPECIFICATIONS

| Signal Tracking | Accuracy Indicators | Electrical Parameters |
|---|--|---|
| BDS: B1I/B2I/B3I/ B1C/B2a/B2b | RTK accuracy: | Battery Life: ≥16h |
| GPS: L1C/A/L1C/L2C/L2P(Y)/L5 | Horizontal: 10mm+1ppm(RMS) Vertical: 20mm+1ppm(RMS) | Input Voltage: DC 5V ≤ 1A |
| GLONASS: G1/G2/G3 | Single Point Positioning: | Battery Capacity: 4800mAh |
| Galileo: E1/E5a/E5b/E6 | Horizontal: 1.5m Vertical: 2m | Power Consumption: 1W |
| QZSS: L1C/A/L1C/L2C/L5 | Inertial Measurement: | Physical Performance |
| NavIC: L5 | Tilt Angle: 0~60° Tilt Accuracy: 2.5cm (within 30°) | Operating Temperature: -45°C~+75°C |
| SBAS: L1C/A | Data Output | Storage Temperature: -55°C~+85°C |
| Initialization Time | Differential Data: RTCM3.X | Physical Dimensions: Φ165mm x 70mm |
| Cold Start Time: < 12s | Positioning Data: NMEA-0183 | Protection Level: IP54 |
| Initialization Time: < 5s (typical) | Data Interface | Shock and Vibration: Withstands 2m drop |
| RTK Initialization Reliability: > 99.9% | Data Refresh Rate: 1Hz | Buttons: 1 button |
| Reacquisition: < 1s | Baud Rate: 115200 | Indicator Lights: 2 LED indicators |
| | Interface Type: Standard TYPE-C interface | Weight: 0.55kg |
| | Bluetooth: BT4.0 | |

APPLICATION



GEOLOGICAL EXPLORATION



CONSTRUCTION SITE LAYOUT



LAND SURVEYING



AGRICULTURAL MARKING

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