

R26 GNSS Receiver

High-Precision GNSS Receiver with Inertial Navigation-- Versatile Applications in Surveying, Agriculture, and More



WHY CHOOSE ALLYNAV R26 GNSS RECEIVER

The R26 GNSS receiver delivers high performance with full GNSS technology and automatic tilt compensation. It features a Linux OS with voice prompts, WEBUI, and WiFi. Equipped with a Type-C fast charger, it supports SIM cards for flexible connectivity.

KEY FEATURES



TILT COMPENSATION



BUILT-IN UHF RADIO



HIGH-PRECISION TRACKING ALGORITHM



Dual Mode:
Base & Rover in One



LONG BATTERY LIFE

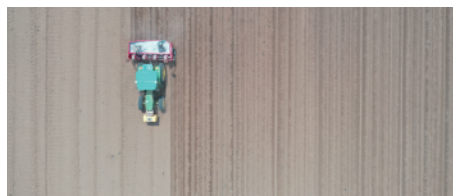


Visualized operating system

APPLICATION



SURVEYING



PRECISION AGRICULTURE



MINING AND CONSTRUCTION





BENEFITS

● TILT COMPENSATION FOR HARD-TO-REACH MEASUREMENTS

The NebulasIV GNSS SoC integrates RF, baseband, and high-precision algorithms. It can track 40+ satellites for accurate positioning in complex environments. The built-in IMU module doesn't require calibration and achieves a 2.5cm tilt measurement accuracy ($\leq 30^\circ$) with simple initialization.

● ALL-IN-ONE DESIGN

The device has built-in Bluetooth, radio, WIFI, storage, positioning, inertial navigation, and antenna modules. It can switch between base station mode and rover mode for automatic switching between the mobile and base station.

● NEW LINUX OPERATING SYSTEM

You can easily access and set up your device by opening a website and viewing its information. Experience hassle-free connectivity with our user-friendly interface. Advanced voice interaction capabilities and a convenient self-test function make device maintenance easy.



SPECIFICATIONS

Accuracy Indicators	Signal Tracking	Initialization Time
Single Point Positioning:	BDS: B1I/B2I/B3I/ B1C/B2a/B2b	Cold Start Time: <12s
Horizontal: 1.5m Vertical: 2.5m	GPS: L1C/A/L1C/L2C/L2P(Y)/L5	Initialization Time: <5s (typical)
RTK Accuracy:	GLONASS: G1/G2/G3	RTK Initialization Reliability: >99.9%
8mm+1ppm(RMS) 15mm+1ppm(RMS)	Galileo: E1/E5a/E5b/E6	Reacquisition Time: <1s
Static Accuracy:	QZSS: L1C/A/L1C/L2C/L5	DATA INTERFACES
2.5mm+1ppm(RMS) 5mm+1ppm(RMS)	NavIC: L5	Data Refresh Rate: Default 1Hz, up to 20Hz
Speed Accuracy: 0.03m/s	SBAS: L1C/A	Interface Types: Type-C, SIM card slot, TNC connector
PHYSICAL PERFORMANCE	Electrical Parameters	
Operating Temperature: -45°C~+75°C	Power Consumption:	Bluetooth: BT4.1, backward compatible with BT2.x, supports Windows/Android/iOS systems
Storage Temperature: -55°C to +85°C	Rover: $\leq 2.0W$ Base Station: $\leq 2.2W$	WiFi: IEEE 802.11 a/b/g/n
Dimensions: $\Phi 140mm \times 141mm$	Battery Life:	Data Output
Protection Level: IP67	Rover: $\geq 20h$ Base Station: $\geq 15h$	Differential Data: RTCM3.X
Impact and Vibration: Withstands 2m drops	Radio Frequency: 410~470MHz	Positioning Data: NMEA-0183
Buttons: 2 button	Input Voltage: 9~36V DC	Static Data: Binary
Indicators: 4 LED indicators	Battery Capacity: 10000mAh	INERTIAL MEASUREMENT
Humidity: 100% non-condensing	Radio Power: 0.5W/1.5W	Tilt Angle: 0-60°
Weight: 1.03kg	Storage Capacity: 32GB	Tilt Accuracy: 2.5cm (within 30°)



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