SurveyGear

R26 Pro GNSS Receiver

High-Precision GNSS Receiver with IMU module -- Versatile for Surveying, Agriculture, and More.

WHY CHOOSE ALLYNAV R26 PRO GNSS RECEIVER

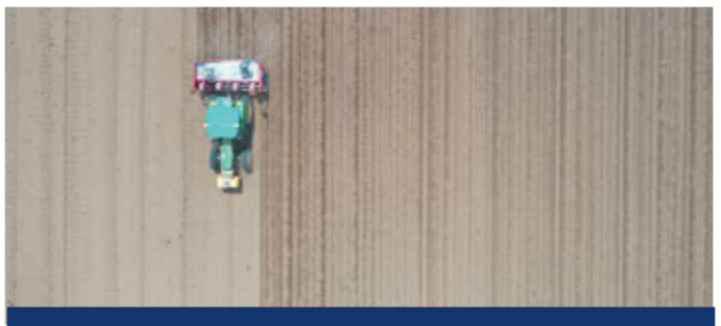
The R26 Pro GNSS Receiver delivers high-precision performance with full-constellation GNSS and automatic tilt compensation. It features a Linux OS, voice prompts, WEBUI, Wi-Fi, Type-C fast charging, and SIM card support for flexible, reliable connectivity in the field.

KEY FEATURES

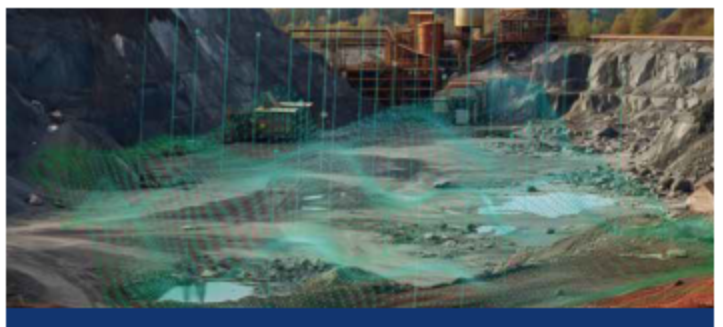
- Tilt Compensation
- Built-in UHF Radio
- High-Precision Signal Tracking
- Dual Mode: Base & Rover
- Global 4G Communication Module
- Visualized Operating System

APPLICATION

SURVEYING



PRECISION AGRICULTURE



MINING AND CONSTRUCTION

BENEFITS

- **Tilt Compensation for Hard-to-Reach Measurements**
  Powered by the NebulasIV GNSS SoC, which integrates RF, baseband, and advanced positioning algorithms, the system tracks 40+ satellites to ensure reliable performance in challenging environments. The built-in IMU module requires no calibration and delivers tilt-compensated measurements with up to 2.5 cm accuracy at tilt angles of up to 30°, all with simple initialization.

- **All-In-One Design**
  The receiver integrates Bluetooth, UHF Radio, Wi-Fi, Internal Storage, GNSS Positioning, an IMU for Tilt Compensation, and a GSM Module — all in one compact device. It supports seamless switching between Base and Rover modes for flexible field deployment.

- **Linux-Based Operating System**
  Easily access and configure your device through a built-in web interface — just open a browser to view system status and settings. The intuitive design ensures smooth connectivity, while advanced voice prompts and a built-in self-diagnostic function simplify operation and maintenance.

SPECIFICATIONS

Accuracy Indicators	Signal Tracking	Initialization Performance
Single Point Positioning Accuracy	BDS: B1I / B2I / B3I / B1C / B2a / B2b	Cold Start Time: < 12 seconds
Horizontal: 1.5m Vertical: 2.5m	GPS: L1 C/A, L1C, L2C, L2P(Y), L5	Typical Initialization Time: < 5 seconds
RTK Accuracy (RMS)	GLONASS: G1, G2, G3	RTK Initialization Reliability: > 99.9%
Horizontal: 8 mm + 1 ppm Vertical: 15 mm + 1 ppm	Galileo: E1, E5a, E5b, E6	Reacquisition Time: < 1 second
Static Accuracy (RMS)	QZSS: L1 C/A, L1C, L2C, L5, L6	**Data Interfaces**
Horizontal: 2.5 mm + 0.5 ppm Vertical: 5 mm + 0.5 ppm	NavIC: L5	Default 1 Hz, configurable up to 20 Hz
Velocity Accuracy: 0.03 m/s	SBAS: L1 C/A	USB Type-C, SIM card slot, TNC connector
Physical Performance	**Electrical Parameters**	Bluetooth 4.1 (backward compatible with BT 2.x)
Operating Temperature: -45°C to +75°C	Power Consumption:	Wi-Fi: IEEE 802.11 a/b/g/n
Storage Temperature: -55°C to +85°C	Rover: ≤2.0W Base Station: ≤2.2W	**Data Output**
Dimensions: Φ140mm x 141mm	Battery Life:	Differential Data: RTCM 3.x
Ingress Protection: IP67	Rover: ≥20h Base Station: ≥15h	Positioning Data: NMEA 0183
Withstands drops of up to 2 meters	Battery Capacity: 10,000 mAh	Static Data: Proprietary binary format
Buttons: 2 buttons	Input Voltage: 9–36 V DC	**Inertial Measurement**
Indicators: 4 LED indicators	Radio Frequency Range: 410–470 MHz	Tilt Angle Range: 0–60°
Humidity Resistance: 100% non-condensing	Radio Transmission Power: 0.5 W / 1.5 W	**Tilt Compensation Accuracy**
Weight: 1.03 kg	Internal Storage: 32 GB	≤ 2.5 cm (within 30° tilt)

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