ALLYNAV

R61 GNSS Receiver

Multi-Purpose Monitoring Receiver

WHY CHOOSE ALLYNAV R61 GNSS RECEIVER

The R61 is a versatile GNSS network reference station receiver featuring multiple communication methods. It supports seamless switching between wired internet and 4G wireless networks, ensuring high reliability and stability in network communication.

KEY FEATURES

Multi-frequency High Precision

Triple Network Switching

APP Remote Control

Multiple Communication Methods

IP67 Protection

Dual-use as a Base Station and Rover Station

BENEFITS

- **High-Precision Positioning**
  Utilizes multi-system, multi-frequency high-precision board cards to ensure positioning accuracy and reliability.

- **Versatile Application**
  Suitable for various scenarios, with compatibility for both base station and rover station use.

- **Durable Design**
  It has an IP67 dustproof and waterproof rating, withstanding 2m drops, ensuring stable operation in harsh environments.

- **Stable Communication**
  Intelligent switching between wired internet and 4G wireless network ensures a continuous, uninterrupted connection.

- **Convenient Operation**
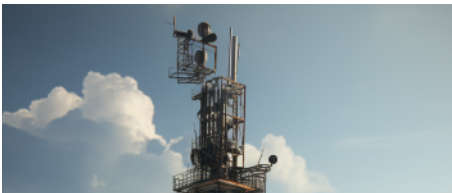 The integrated Bluetooth module supports the receiver's control and configuration via a mobile app.
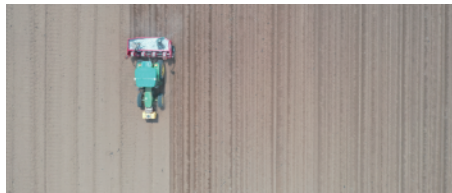
SPECIFICATIONS

Signal Tracking	PHYSICAL PERFORMANCE	Electrical Parameters
BDS: B1I/B2I/B3I/ B1C/B2a/B2b	Data Update Rate:20Hz	Power Consumption: ≤3.0W
GPS: L1C/A/L1C/L2C/L2P（Y）/L5	Baud Rate:9600~460800	Power Supply Voltage:9~36V DC
GLONASS: G1/G2/G3	**Accuracy Indicators**	**COMMUNICATION PARAMETERS**
Galileo: E1/E5a/E5b/E6	**Single Point Positioning:**	4G: GSM 4G module
QZSS: L1C/A/L1C/L2C/L5	Horizontal: 1.5m Vertical: 2.5m	Ethernet Port: 1×RJ45 (100M Ethernet)
NavIC: L5	RTK accuracy:	**Data Interfaces**
SBAS: L1C/A	Horizontal: 8mm+1ppm(RMS) Vertical: 15mm+1ppm(RMS)	Differential Data: RTCM3.X
Cold Start Time: <12s	Static accuracy:	Positioning Data:NMEA-0183
Initialization time: <5s (typical value)	Horizontal: 2.5mm+1ppm(RMS) Vertical: 5mm+1ppm(RMS)	Static Data:Binary
RTK initialization reliability: >99.9%	Velocity Accuracy: 0.03m/s	Network Protocol:TCP/NTRIP
Recapture: <1s		

APPLICATION

VARIOUS BASE STATIONS

PRECISION AGRICULTURE

ENGINEERING MONITORING