

SPECIFICATIONS

GNSS Performance	
Channels	1408 Channels,based on NebulasIV
GPS	L1C/A,L1C,L2C,L2P(Y),L5
GLONASS	G1,G2,G3
Galileo	E1,E5a,E5b,E6
BeiDou	B11, B2I,B3I,B1C,B2a, B2b
QZSS	L1C/A,L1C,L2C,L5
SBAS	L1C/A

GNSS Accuracies	
Real time kinematics(RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization time:< 5 s Initialization reliability: > 99.9%
Post-processing kinematics (PPK)	Horizontal: 2.5 mm + 1 ppm RMS Vertical: 5 mm + 1 ppm RMS
Post -processing static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS
Positioning rate	Default 1 HZ, Maximum 20 HZ
Time to first fix	Cold start: < 25 s Hot start: < 10 s Signal re-acquisition: < 1 s

RTK tilt - compensated	Tilt angle 0~60°, Tilt accuracy 25mm (within 30° accuracy)
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Electrical	
Li -ion battery capacity	10000mAh
Operating time on internal battery	18h(Rover) 11h(Base)
External power input	9 V DC to 36 V DC
Power consumption	As Rover<2.0W As Base<2.2W

Communication	
Bluetooth	BT4.1, backward compatible with BT2.x, protocol supports Windows/Android/IOS system
WIFI	IEEE 802.11 a/b/g/n
Ports	Mobile station Type-C, SIM card socket, TNC connector; base station Remo connector, TNC connector

Build-in UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz/840MHz Transmit Power: 0.5 W to 1.5 W Protocol: CSS,LIANSHI,(Trimtalk)
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External Radio	Frequency: 410-470MHz Transmitting power: 5W or 35W Working Range: 15-20Km Link rate: 9600 bps to 460800 bps
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Data formats	Range: Typical 5 km to 8 km RTCM2.x, RTCM3.x, CMR
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Data storage	32 GB internal memory
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Hardware

Size (L x W x H)	140 mm x 140 mm x 88 mm (5.5 in x 5.5 in x 3.5 in)
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Weight	1.03 kg (2.27 lb)
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Environment	Operating: -45°C to +75°C (-49°F to +167°F) Storage : -55°C to +85°C (-67°F to +185°F)
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Humidity	100% condensation
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Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion to depth of 2 m
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Shock	Survive a 2-meter pole drop
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Tilt sensor	Calibration - free IMU for pole - tilt compensation. Immuneto magnetic disturbances.
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Front panel	4 LED indicates 2 physical buttons
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R26 IMU-RTK GNSS RECEIVER

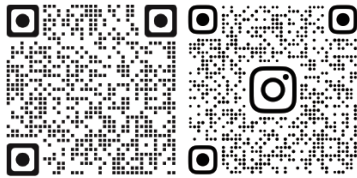
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The R26 GNSS receiver features excellent performance with full GNSS technology offers best-in-class GNSS signal tracking and performs GNSS surveys beyond the usual limitations. The R26 GNSS features the latest innovations, inertial module for automatic tilt compensation in a very compact design.

Linux intelligent operating system, supporting voice and WEBUI Support WIFI connection.

The Rover is equipped with a Type-C charge and supports fast charging.

The Rover supports SIM card insertion to use the network, and the base station is equipped with a standard LEMO connector.

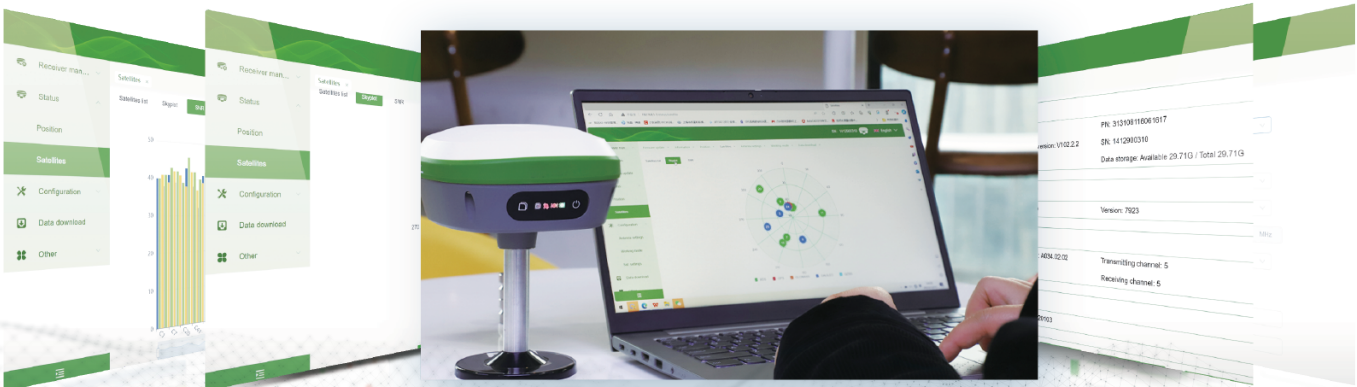
“ALL-IN-VIEW” SATELLITE TRACKING

“All-in-view” satellite tracking for BDS,GPS,GLONASS,Galileo,QZSS,NavIC, SBAS,L-Band*
1408 Channels solution, based on Nebulasiv high-precision tracking algorithm

NEW LINUX OPERATING SYSTEM

WebUI supports seamless connectivity for mobile devices such as phones and laptops through WIFI. 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 for easy device maintenance.

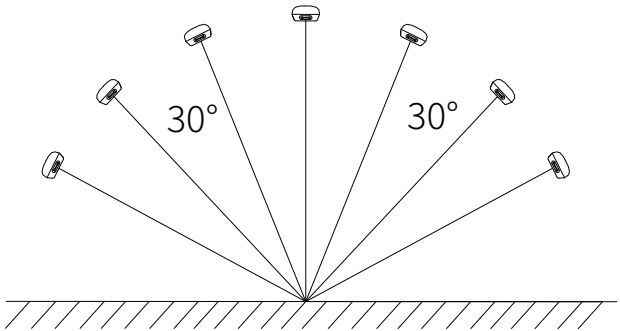
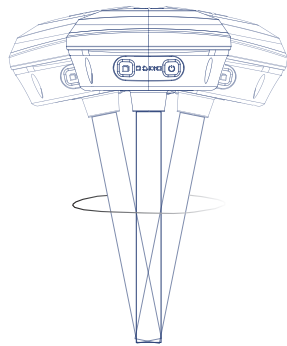


FEATURES



TILT COMPENSATION FOR HARD-TO-REACH MEASUREMENTS

The built-in IMU module does not require calibration. It only needs to shake it slightly to complete the initialization, and the 5cm tilt measurement accuracy ($\leq 30^\circ$) can be achieved, so that you can easily measure in various geographical scenarios.



HIGH-PRECISION TRACKING ALGORITHM

Based on the new generation GNSS SoC -NebulasIV, which integrates RF, baseband and high precision algorithm, search for 40+ satellites, which can ensure positioning accuracy in a variety of complex environments.



BUILT-IN UHF RADIO

Built-in low-power transceiver integrated radio module, Adapt to transparent, TRIMTALK, CSS, LIANSHI and so on ,multiple communication protocols.



LARGE CAPACITY AND LONG BATTERY LIFE

Built-in battery with a capacity of up to 8400mAh, which can achieve more than 14 hours of continuous battery life.



TWO OPERATING MODES INTERCHANGE

Base station mode and rover mode can be switched freely according to needs which can realize automatic switching between mobile station and base station.



ALL-IN-ONE DESIGN

Built-in Bluetooth, radio, WIFI, storage, positioning, inertial navigation, antenna and other modules to meet various needs of measurement work.