

R26

The R26 GNSS receiver removes barriers to portability without sacrificing performance. Featuring full GNSS technology, it offers best-in-class GNSS signal tracking even in a harsh environment, enabling GNSS surveying beyond usual constraints. The R26 GNSS incorporates the latest innovations such as an inertial module providing automatic pole-tilt compensation in a very compact design.



ENABLE GNSS RTK ANYTIME, ANYWHERE

Full constellation

Strong battery life

RTK+IMU



THE POWER OF GNSS+IMU RTK TECHNOLOGY

Built-in inertial navigation module, you can measure it when you click it. As long as the pole point is aligned, the precise coordinates can be measured even if the pole body is tilted. The measuring point efficiency is increased by 20%, and the staking efficiency is increased by 30%.



FULL CONSTELLATION MULTI-BAND

Fully support BDS, GPS, GLONASS, Galileo systems, adapt to a variety of complex and harsh environments, and ensure centimeter-level positioning accuracy



ALL-IN-ONE DESIGN

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



LARGE CAPACITY AND LONG BATTERY LIFE

Built-in battery with a capacity of up to 10000mAh, which can achieve more than 14 hours of continuous battery life, ensuring long-term operation in harsh outdoor environments



BUILT-IN UHF RADIO

Built-in low-power transceiver integrated radio module, which can realize automatic switching between mobile station and base station



STRONG COMPATIBILITY

Adapt to transparent, TRIMTALK, South and so on, multiple communication protocols



CAN BE EXTENDED TO DUAL ANTENNAS

Built-in integrated positioning and heading board, can be connected with an external antenna, to achieve high-precision heading applications



TWO OPERATING MODES INTERCHANGE

Base station mode and rover mode can be switched freely according to needs

SPECIFICATION

MODEL	R26	
GNSS Performance	Channels	432 channels, based on Nebulas-II
	GPS	L1/L2/L5
	GLONASS	L1, L2
	Galileo	E1, E5a , E5b
	BeiDou	B1I/B2I
	QZSS	L1, L2, L5
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)
Hardware	Size (L x W x H)	140 mm x 140 mm x 88 mm (5.5 in × 5.5 in × 3.5 in)
	Weight	1.03 kg (2.27 lb)
	Environment	Operating: -45°C to +75°C (-49°F to +167°F) Storage: -55°C to +85°C (-67°F to +185°F)
	Humidity	100% condensation
	Ingress p rotection	IP67 waterproof and dustproof, protected from temporary immersion to depth of 2 m
	Shock	Survive a 2-meter pole drop
	Tilt sensor	Calibration - free IMU for pole - tilt compensation. Immune to magnetic disturbances.
	Front panel	4 LED indicates 2 physical buttons

Communication	Bluetooth	v 4.0, Backward compatible with BT2.x
	Ports	1 x 9 PIN aviation plug, including power supply, COM RS232, CONFIG, RS232. 1 x UHF radio antenna interface
	Build-in UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz/840MHz Transmit Power: 0.5 W to 2 W Protocol: Transparent, TT450S, Trimtalk, TRMMARK3, SOUTH, SATEL
	External Radio	Frequency: 410-470MHz Transmitting power: 35W Working Range: 15-20Km
	Data formats	Link rate: 9600 bps to 460800 bps Range: Typical 5 km to 8 km RTCM2.x, RTCM3.x
	Data storage	8 GB internal memory
Electrical	Power consumption	5 W (depending on user settings)
	Li -ion battery capacity	10200mAh
	Operating time on internal battery	20h(Rover) 10h(Base)
	External power input	9 V DC to 36 V DC
	Power consumption	As Rover<4.0W As Base<10.5W

Note: The above information is for reference only and may be varied at delivery. For the latest data, please contact us.

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