

## R26-V2

### R26 integrated Beidou / GNSS receiver

R26 integrated Beidou / GNSS receiver is a built-in large capacity battery, large capacity memory card, integrated multi-function high-precision inertial navigation RTK receiver independently developed by connected navigation, built-in Beidou / GNSS full-frequency antenna, multi-frequency point high-precision positioning and directional board card, Bluetooth, inertial navigation, radio and other modules.

R26 receiver can be either RTK mobile station or RTK reference station; high precision, low power consumption, small volume, convenient and quick carrying operation. It can meet the positioning needs of various industries, such as mechanical control, surveying and mapping engineering, precision agriculture, geographic information, water survey, engineering survey, mine survey, aerial photography, unmanned aerial vehicle and so on.



### Technical Feature

- Small volume and high integration, the system can integrate large capacity battery, inertial navigation module, GNSS antenna, satellite positioning module, Bluetooth, radio module, storage module, etc.;
- High precision and low power consumption, using Beidou, GPS, GLONASS, Galileo, QZSS and other multi-system multi-frequency system, in a variety of positioning, to ensure the accuracy of complex environment;
- Support wide voltage 9~36V DC power supply, with positive and negative polarity reverse connection protection function;
- Standard IP67 waterproof and dustproof design;
- Built-in Bluetooth module, compatible with 2.0 and 4.0, can send differential data;
- Measurement software can realize CORS connection, measuring lofting and other functions;
- Built-in integrated radio module supports various communication protocols, such as CSS (Lora) protocol; the maximum transmission power is 2W, can realize the maximum 5 km data communication;
- Built-in inertial navigation module, fast calibration, to achieve the inertial navigation RTK function, used for tilt measurement;
- The base station and the mobile station can be interchangeable, and can be used as a base station or as a mobile station mapping;
- Built-in 8G large-capacity memory card, can be real-time storage of job data.

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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# SPECIFICATION

MODEL	R26-V2		
Signal tracking	Channels	1408 channels, base on NebulasIV™	
	BDS	BDS B1I/B2I/B3I/B1C/B2a /B2b	
	GPS	L1C/A/L2P(Y)/L2C /L5	
	GLONASS	G1/G2/G3	
	Galileo	E1/E5a/E5b /E6*	
	QZSS	L1, L2, L5	
	Cold start time	< 25 s	
	Initialization time	< 5 s (typ.)	
	RTK initialization reliability	> 99.9 %	
	Recapture	< 1 s	
Precision Index	Point positioning	Plane	1. 5m
		Elevation	2. 5m
	RTK Accuracy	Flat	$\pm(8 + 1.0 \times 10^{-6} \times D)$ mm
		Elevation	$\pm(15 + 1.0 \times 10^{-6} \times D)$ mm
	Speed accuracy	0.03m/s	
presentation of information	Differential data	RTCM2.X, RTCM3.X	
	Location data	NMEA-0183	
	Static data	Binary	
Electrical parameters	Power consumption	mobile station 4.0W, reference station 10.5W	
	Battery life	18h (mobile station), 11h (base station)	
	radio frequency	410 ~ 470 MHz / 840 MHz	
	Input voltage	9~36V DC	
	Battery capacity	10200 mAh	
	Radio station power	0.5W / 1W	
	Storage capacity	8G can be downloaded directly at high speed through USB (support automatic data cycle storage)	
physical properties	Operating temperature	-45 °C ~ +75 °C	
	Storage temperature	-55 °C ~ +85 °C	
	Physical size	140mm×141mm	
	Protection grade	IP67	
	Impact and vibration:	2m drop resistance	
	keys	2 keys	
	Indicators	4 LED indicators	
	Humidity	100% without condensation	
	Weight	1.03Kg	
Data interface	Data refresh rate	default 1Hz, the highest 20Hz	
	Baud rate	9600 ~ 460800	
	Interface mode	1 nine-core navigation connector, 1 radio antenna TNC connector	
	Bluetooth	BT4.0, downward compatible with BT2.x, the protocol supports Windows / Android / IOS system	
Used guide measurement	Tilt angle	0~60°	
	Tilting accuracy	2.5cm (30° internal accuracy)	