

C5

IMU RTK Receiver



Easy to Fix



VERSATILE. RUGGED. ACCURATE

- 100% more efficient to do surveying and staking-out
- 41% better performance in canopy environments
- Lifetime online face-to-face services
- Much easier RTK operations



ENHANCED
SIGNALS
TRACKING



ONE-CLICK
TO ALL
FUNCTIONS



COMPREHENSIVE
STAKING-OUT



SUPER
ACCURACY



CONNECTIONS
IN SECONDS



CLOUD-BASED
MANAGEMENT



100% MORE EFFICIENT TO DO SURVEYING AND STAKING-OUT

- 1608 channels, full support of all GNSS constellations.
- Advanced Full Star technology, to maximize the use of all the satellite signals.
- 4D IMU.
- RTK keeping technology, maintain fixed positioning when real-time corrections are lost.





Stronger signal , easy to fix.

MEASURE ANYWHERE, WHEN YOU GET THERE

Double check technology, using mulit-frequencys to solve GNSS signal, smart select



GNSS-IMU tight coupling, using one epoch to get fix ambiguity



41% performance improvement

RTK CAN BE MUCH EASIER



Cable free, Bluetooth radio, work without complex connections.



Cloud-based data management





One click to all functions User-friendly interface, make it easy to understand and use; Super menu, one click to access all functions.

Staking-out from CAD basemap
click to select the points to stake



Data sharing by bar code scanning

FACE-TO-FACE ASSISTANCE, AND UNLIMITED TRAINING REMOTE ONLINE SERVICE BY ONE CLICK, TO GET INSTANT SUPPORT.



SPECIFICATIONS

GNSS Performance	
Channels	1608
Satellites tracking	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L2P (Y), L2C, L5 GLONASS: L1/L2 Galileo: E1, E5a, E5b, E6* QZSS: L1, L2, L5, L6* PPP: B2b-PPP SBAS: L1, L5
Positioning rate	10 Hz
Operation system	Linux
Initialization time	< 5 sec
Initialization reliability	> 99.9 %
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm Vertical: 5 mm + 0.5 ppm
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm Vertical: 15 mm + 1 ppm
IMU Sensor	
IMU	Supported
Accuracy	Less than 2.5 cm within 30°
Tilt angle	0°~60
Hardware	
Size (L x W x H)	133 mm x 133 mm x 85 mm
Weight	0.86 kg
Button	Power button
Operating temperature	-45°C~ +75°C
Storage temperature	-55°C~ +85°C
Water/Dust Proof	IP67
Shock resistance grade	IK08
Shock	Survive a 2 m drop
Data Output	
Correction data	CMR, RTCM2.X, RTCM3.X, Full Star
GPS data	NEMA 0183, PJK, Binary

Feature	
Intelligent voice	Data collector voice
Cloud service	Remote assistance, data sharing, etc.
Static Data Recording	
Format	RINEX
Data storage	8G internal memory
Electrical	
Battery capacity	Rechargeable and built-in Lithium-ion battery, 6,800 mAh
Working time	RTK Rover: up to 24h UHF RTK Base: up to 10.5 h Static: up to 25 h
External power	USB Type-C power, powerbank supported
Power consumption	Typical 2.2 W (depending on user settings)
Communication	
Ports	1 x USB Type-C port (data download, firmware update and charge) 1 x UHF antenna port (TNC female)
Bluetooth	Supported
Wi-Fi	Supported
Webpage configuration	Supported
NFC	Supported
UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz Transmit Power: 0.5 W and 1 W Protocol: EFIX, Transparent, TT450, Satel3AS Range: Typical 3 km, up to 8km with optimal conditions. Link rate: 9,600 bps

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