

NEWDi

C5

IMU RTK Receiver



Make your work more efficient

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.

MEASURE ANYWHERE, WHEN YOU GET THERE

Double check technology, using multi-frequencies to solve GNSS signal, smart select



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



41% performance improvement

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



SPECIFICATIONS

GNSS Performance		Feature	
Channels	1608	Intelligent voice	Data collector voice
Satellites tracking	BDS: B1I/B2I/B3I/B1C/B2a GPS: L1C/A/L2P/L2C/L5 GLONASS: L1/L2 Galileo: E1/E5a/E5b QZSS: L1/L2/L5	Cloud service	Remote assistance, data sharing, etc.
Positioning rate	10 Hz	Static Data Recording	
Operation system	Linux	Format	RINEX
Initialization time	< 5 sec	Data storage	8G internal memory
Initialization reliability	> 99.9 %	Electrical	
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm Vertical: 5 mm + 0.5 ppm	Battery capacity	Rechargeable and built-in Lithium-ion battery, 6,800 mAh
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm Vertical: 15 mm + 1 ppm	Working time	15 hours with Ntrip work mode
		External power	USB Type-C power, powerbank supported
IMU Sensor		Communication	
IMU	Supported	Ports	1 x USB Type-C port (data download, firmware update and charge) 1 x UHF antenna port (TNC female)
Accuracy	Less than 2.5 cm within 30°	Bluetooth	Supported
Tilt angle	0°~60	Wi-Fi	Supported
Hardware		Webpage configuration	Supported
Size (L x W x H)	133 mm x 133 mm x 85 mm	NFC	Supported
Weight	0.86 kg		Standard Internal Rx/Tx: 410 - 470 MHz
Button	Power button		Transmit Power: 0.5 W and 1 W
Operating temperature	-45°C~ +75°C		Protocol: Transparent, TT450, Satel3AS
Storage temperature	-55°C~ +85°C		Range: Typical 2 km to 4 km.
Water/Dust Proof	IP67		Link rate: 4,800 bps / 9,600 bps/ 19,200 bps
Shock resistance grade	IK08	UHF radio	
Shock	Survive a 2 m drop		
Data Output			
Correction data	CMR, RTCM2.X , RTCM3.X, Full Star		
GPS data	NEMA 0183, PJK, Binary		



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