

# C3

## 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

- 1008 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 mult-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



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



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



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	1008
Satellites tracking	BDS: B11/B21/B31/B1C/B2a GPS: L1/L2/L5 GLONASS: L1/L2 Galileo: E1/E5a/E5b QZSS: L1/L2/L5
Positioning rate	Up to 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)	121 mm × 121 mm × 74 mm
Weight	0.87 kg
Button	Power button
Operating temperature	-45°C~ +75°C
Storage temperature	-45°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	15 hours with Ntrip work mode
External power	USB Type-C power, powerbank supported

## Communication

Ports	1 x USB Type-C port (data download, firmware update) 1 x UHF antenna port (TNC female)
Bluetooth	Supported
Wi-Fi	Supported
Webpage configuration	Supported
NFC	Supported
UHF radio	Standard Internal Rx: 450 - 470 MHz Protocol: EFIX, Transparent, TT450 S

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