

RDC 50

High - Precision GIS Handheld



The RDC 50 GIS handheld device is equipped with a high-performance positioning chip, supporting five major GNSS satellite systems and dual-frequency L1+L5 positioning. With instant fix technology, precise operations require no waiting. The device also features 4GB RAM and 64GB of large storage, enabling seamless execution of raster and vector data tasks in a single device.



Android system offers enhanced system privacy protection, ensuring greater data security and reliability. Its optimized processing efficiency also boosts app performance and speed.



The powerful helical antenna can receive GNSS satellite signals from all directions, ensuring superior signal reception and measurement accuracy when using the device.



Supports 2.4G + 5G dual-band Wi-Fi and dual-SIM wireless data communication service, providing you with fast data transmission whether you're indoors or outdoors.



Featuring a 5.7-inch high-brightness display with an 18:9 aspect ratio, offering a large screen visual experience while maintaining a comfortable grip. The screen provides high touch accuracy and supports wet hand and glove operation.



Equipped with a 5000mAh high-capacity polymer battery.



IP67. 1.2 meter drop to marble.

Reliable Rapid Responsible

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SPECIFICATIONS

SYSTEM

Display	5.7 inch, 720 * 1440HD, 400nits, IPS 18:9
TP	5-point capacitive touchscreen, gloves operable and wet-finger compatibility
CPU	Octa-core 2.0 GHz processor
OS	Android 10.0
Storage	4 GB LPDDR4 + 64 GB eMMC

MULTIMEDIA

Rear Camera	13MP, Autofocus
Front Camera	5MP, Fixed Focus
Flash	Dual LED Flash
Speaker	Internal x 1, 10cm > 100±3dB at 1kHz
Mic	Internal x 2, Support noise reduction
Buttons	1 Power button; 2 Volume buttons; 2 Customizable side buttons.

SENSORS

	Light-sensor
	Proximity
	G-sensor
	Gyroscope
	E-compass

EXTERNAL PORTS

	Nano-SIM card slot * 2
	Micro SD card slot (SDHC, Max: 256GB) * 1
	Type-C (USB 2.0 OTG) * 1 + Plug for headphone jack
PogoPin	2 Pin * 1 for charging

BATTERY

Battery	3.8V, 5000mAh
Charging	Charging Time ≤ 5 hours

GNSS

Constellation	BDS	B1I
	GPS	L1, L5
	GLONASS	G1
	Galileo	E1, E5a, E5b
Accuracy	Single Point	Horizontal: < 1.5 m RMS; Vertical: < 2.0 m RMS
	RTK	Horizontal: 1.0 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm
	PPP	30cm RMS

ENVIRONMENTAL

Working Temperature	-20°C ~ +55°C
Storage Temperature	-30°C ~ +70°C
Humidity	0-95% RH, non-condensing
ESD	Contact type 8KV, air type 10KV
Water & Dust Proof	IP67
Drop	1.2m

WIRELESS

Wi-Fi	802.11 a/b/g/n/ac (2.4G Wi-Fi & 5G Wi-Fi)
Bluetooth	BT5.1 @BLE
NFC	13.56MHz, work distance ≥ 3cm, support ISO/ 14443 A/B, ISO/ 15693, NFC- IP1, NFC-IP2, M1 Card (S50, S70), CPU Card, NFC Label
Mobile Network(Optional)	FDD-LTE : B1/B2/B3/B5/B7/B8/B20/B28AB TDD-LTE : B38/B39/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800