



Alpha Surveying

Alpha **5i**

Long-range RTK

12km Rx/Tx Radio | 60° IMU | Quick Fixed



Alpha 5i

Alpha 5i RTK with all-band and all satellite system supporting works well with higher calculation speed. It is able to get a quick connection, a quick measurement, a quick search for satellites, and a quick fixing. Equipped with high-precision inertial system, a new built-in ultra-long-range radio transceiver, Alpha 5i works longer, faster with higher accuracy.

Farther, Faster, Stronger



Long-cover-range

Built-in radio, could cover range up to 12km



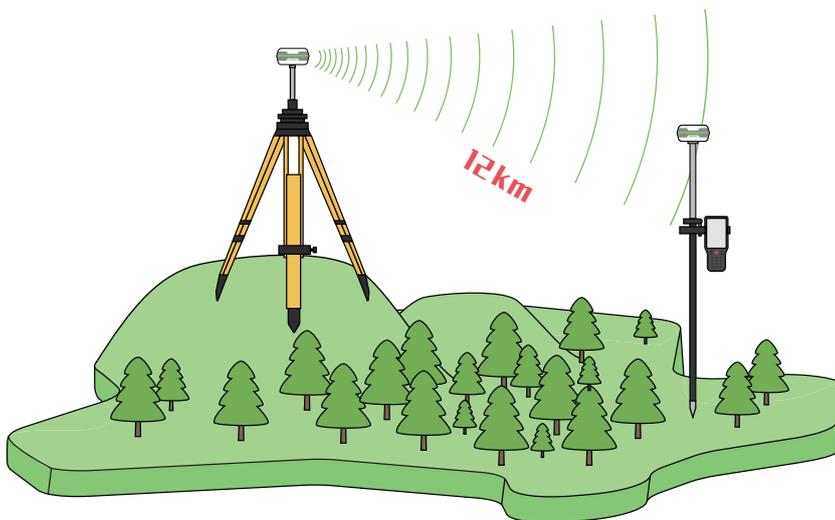
Long working time

Work over 25h with smart power supply in rover mode



Quick fixed

Quick and high-precision calculating based on the BDS



Please set the base station in a relatively high and open area

α Link Radio

The built-in integrated radio transceiver has high bandwidth receiver with low power consumption. It can work within a long distance with low delay, under certain circumstances, covering a range of 12km. The built-in radio performs as well as the external large radio station.

8 km

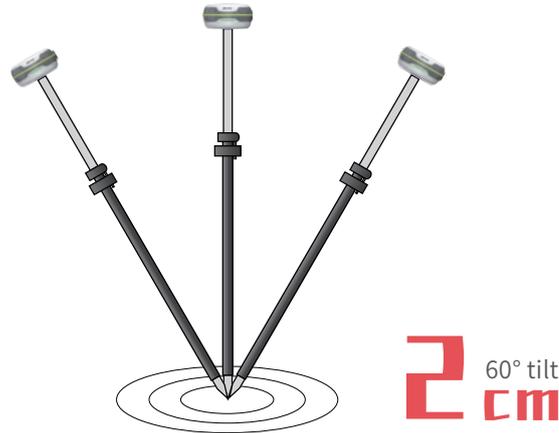
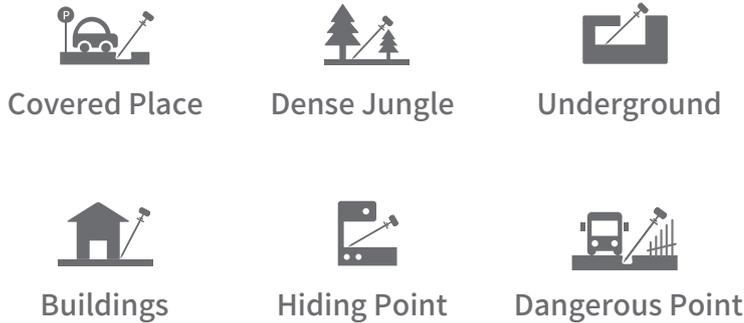
Regular

12 km

Enhance

High-precision IMU

The newest tilt compensation technology integrate the GNSS algorithm with sensors and improves by 30% in its measurement accuracy, which meets the 2cm accuracy requirement of the surveying and mapping, and structural engineering.



B55 Professional PDA Collector

5.5-inch screen
thin and smart
8 core strong computing power



B55 Specifications

- System ----- Android 11
- CPU ----- 8-Core 2.0GHz
- Internal storage ----- 4+64G
- Wlan ----- 4G
- Bluetooth ----- BT5.0/BLE
- Volume ----- 3.7V,7700mAh
- IP Protection ----- IP67
- Weight ----- 335g

DiMap

DiMap has been greatly upgraded with various measurement modes that cater to users' needs. Users can view and check the data while the measuring program is under way. The DiMap, which offers services for RTK, is professional, intelligent, and user-friendly.



Professional Set



Standard Rover Set

Gnss Receiver	×1
Charger For Receiver	×1
Power Cable	×1
UHF Antenna	×1
Carrying Case	×1
Controller	×1
Controller Bracket	×1
Charger For Controller	×1
Power Cable	×1
GNSS Pole+Bag	×1

Technical Specification

GNSS	Channels	1116
	Signal Tracking	GPS: L1C/A, L1C, L2C, L2P, L5
		BDS: B1I, B2I, B3I, B1C, B2a, B2b, ACEBOC
		GLONASS: G1, G2, G3
		Galileo: E1, E5a, E5b, ALTBOC, E6
	QZSS: L1C/A, L1C, L2C, L5	
SBAS: L1,L5		
High Precision Static	H: $\pm (2.5+0.5 \times 10^{-6}D)$ mm	
	V: $\pm (5+0.5 \times 10^{-6}D)$ mm	
RTK	H: $\pm (8+1 \times 10^{-6}D)$ mm	
	V: $\pm (15+1 \times 10^{-6}D)$ mm	
Tilt Compensation	Accuracy	$\pm (8+0.3TILT)$ mm
	Angle	0~60°
	Update Rate	400Hz
System Parameters	System	Linux
	ROM	8G
	Data Record	DAT
	Bluetooth	BT 5.0
	4G LTE	GSM:B2/B3/B5/B8
		UMTS:B1/B2/B4/B5/B6/B8/B19
LTE-TDD:B38/B39/B40/B41		
LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28		
Radio	Power	1w/2w
	Frequency	410-470MHz
	Mode	Rx & Tx
Power	Voltage	6-28V QC2.0
	Working Time	25h(Ntrip)
Port Indicator	TNC	Used to connect the built-in aerial
	Type-C	For charging & Transmission
	Indicator Lights	satellite, datalink, bluetooth, battery
Physical	Dimension	138mm*68mm
	Weight	780g
Environmental	Operating Temperature	-30°C ~ +70°C
	Storage Temperature	-40°C ~ +80°C
	Water/Dust Proof	IP67
	Shock	Survive a 2m drop on concrete floor, 1.2m free drop
	Humidity	Up to 100%

*The above technical parameters are for your reference. The company reserves the right to change the design and planning of the product based on the actual product.

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