

Alpha 5i
High-performance RTK
Switch on it, fast and smooth measurement at hand!

Alpha 5i "Performance King"

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.



Lighter, Faster, Stronger



780g

The Alpha RTK with high performance is only 780g. It has a light measurement controller and GNSS pole as well.



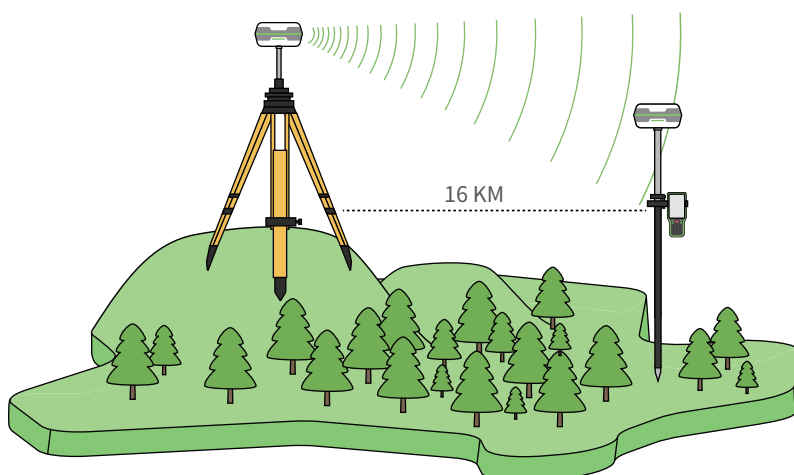
25h working hours

Alpha 5i uses intelligent electronic power system to ensure long working hours. No worries about the battery life.



2sec to get fixed

Alpha 5i is able to get quick and high-precision calculating based on BeiDou satellite navigation system, and get fixed immediately without extra waiting.



αLink 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 16km. The built-in radio performs as well as the external large radio station.

8 KM







Regular

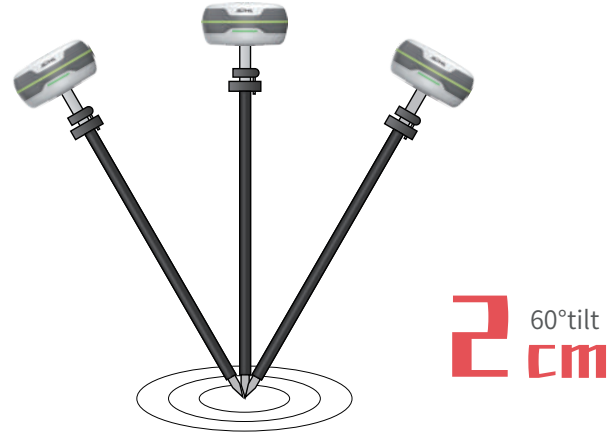
16 KM

Enhance

High-precision INS

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.

		
Covered Place	Dense Jungle	Underground
		
Buildings	Hiding Point	Dangerous Point



Alpha Bi Controller

Big red button: a button reserved for measurement
 Type Nine keyboard: More comfortable and convenient
 Master of performance: 8 cores CPU, 4G DDR4 RAM gives the equipment powerful calculating ability to work with complex CAD drawings and bring out data immediately



Alpha Bi Technical Indicators

- Software platform Android 10.0
- CPU 8 cores 2.0Ghz
- Storage 4G DDR4 + 64G
- Network system NanoSIM 4G
- Bluetooth BLE 5.0
- Battery 5200mAh Up to 20 hours
- Type Nine keyboard · backlit keyboard
- 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. It is now fully open for clients.



Package includes



Standard Set

Gnss Receiver	X1
Charger For Receiver	X1
Power Cable	X1
UHF Antenna	X1
Carrying Case	X1

Optional

Controller	X1
Controller Bracket	X1
Charger For Controller	X1
Power Cable	X1
GNSS Pole+Bag	X1

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	0~70°	
	Update Rate	400Hz	
	System	Linux	
System Parameters	ROM	8G	
	Data Record	RINEX	
	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	
	Power	1w/2w	
	Radio	Frequency	410-470MHz
		Mode	Rx & Tx
Voltage		6-28V QC2.0	
Power	Working Time	25h	
	TNC	used to connect the built-in aerial	
Port Indicator	Type-C	For charging & Data connection	
	Indicator Lights	satellite, datalink, bluetooth, battery light	
Physical	Dimension	138mm*68mm	
	Weight	780g	
	Operating Temperature	-30°C ~ +70°C	
Environmental	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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