



Alpha 5i

High-performance RTK

Switch on it, fast and smooth measurement at hand



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.



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

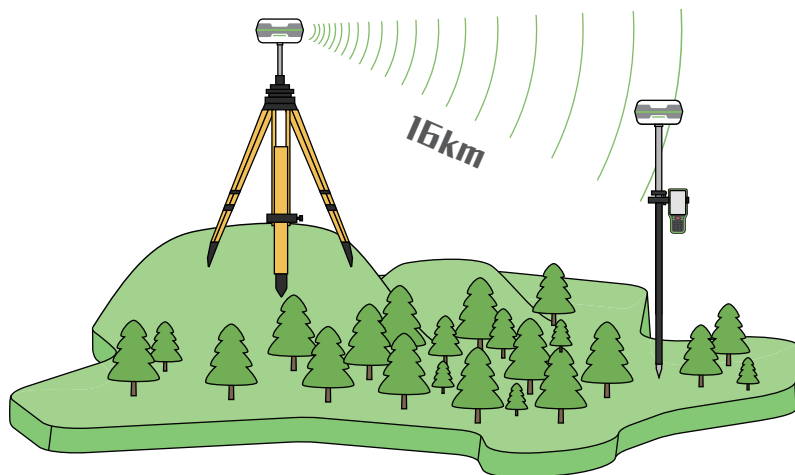
25h working hours

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

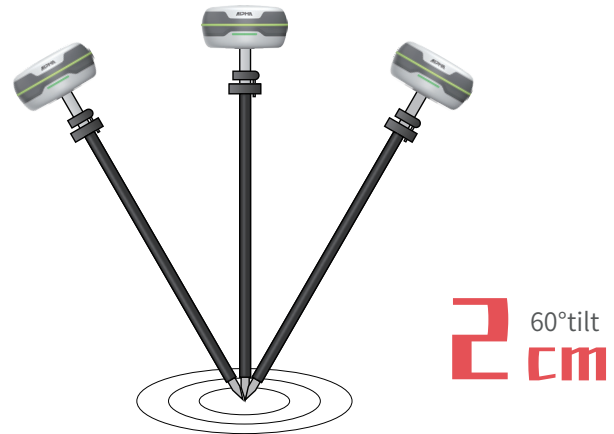
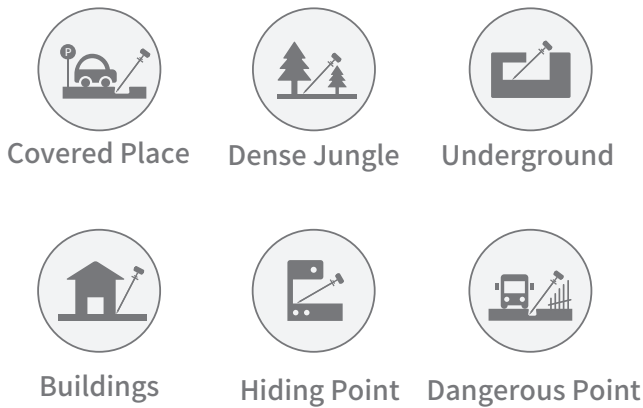
The built-in integrated radio transceiver has high bandwidth receiver with low power consumption. It can work within a long distance with low delay, under certain circumstances, covering a range of 16km. The built-in radio performs as well as the external large radio station.

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.



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.

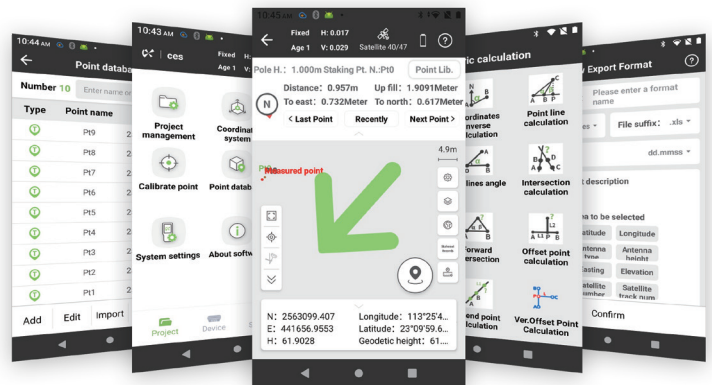


Alpha Bi Technical Indicators

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.



Professional Set



Standard Rover Set

Gnss Receiver	X1
Charger For Receiver	X1
Power Cable	X1
UHF Antenna	X1
Carrying Case	X1
Controller	X1
Controller Bracket	X1
Charger For Controller	X1
Power Cable	X1
GNSS Pole+Bag	X1

Technical Specification

GNSS	Channels	1116
		GPS: L1C/A, L1C, L2C, L2P, L5
		BDS: B1I, B2I, B3I, B1C, B2a, B2b, ACEBOC
		GLONASS: G1, G2, G3
	Signal Tracking	Galileo: E1, E5a, E5b, 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 Parameters	System	Linux
	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
Radio	Power	1w/2w
	Frequency	410-470MHz
	Mode	Rx & Tx
Power	Voltage	6-28V QC2.0
	Working Time	25h
Port Indicator	TNC	used to connect the built-in aerial
	Type-C	For charging & Data connection
	Indicator Lights	satellite, datalink, bluetooth, battery light
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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