



Alpha Surveying

Alpha 5w

Powerful long-range RTK

Built-in 5 watts radio | Protocol compatible | 90° IMU



Alpha 5w

Farther, Faster, Stronger



Long-cover-range

Built-in 5W Rx&Tx radio, could cover range up to 12KM



Long working time

Work over 25h with smart power supply in rover mode



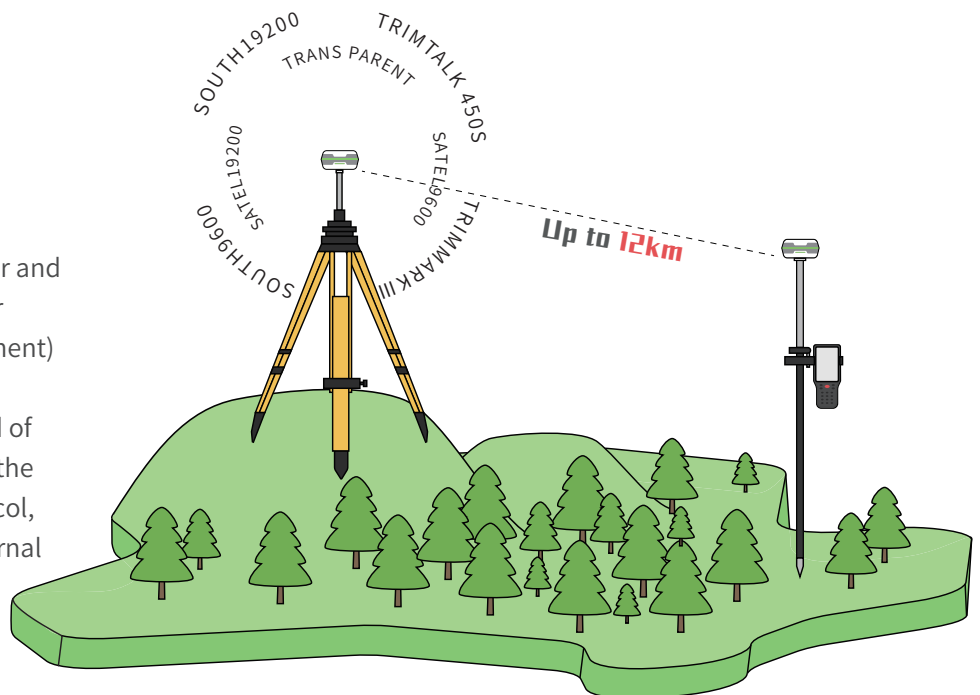
Quick fixed

Quick and high-precision
calculating based on the BDS



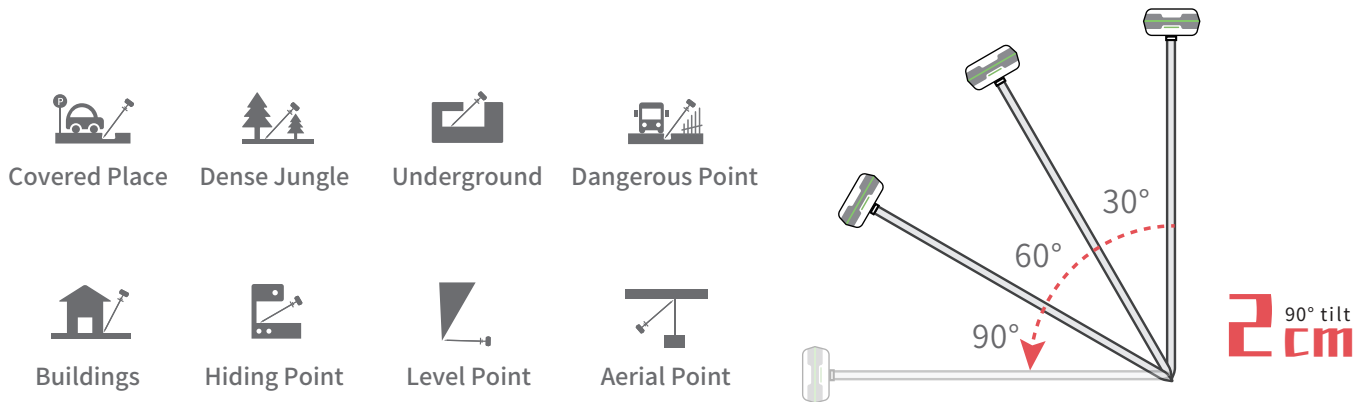
SW Radio

Built-in 5W integrated transceiver and fully compatible radio with cover range up to 12km(ideal environment) and 5km(in urban environment). Supports the full frequency band of 410-470MHz, is compatible with the market's mainstream RTK protocol, and is compatible with 35W external radio.



Inertial Navigation

Quick initialization, supports 60° tilted ground point measurement, and supports 90° horizontal point measurement. When satellite conditions are good, 120° aerial point measurement can be supported for a short period of time.



Alpha B55 Controller

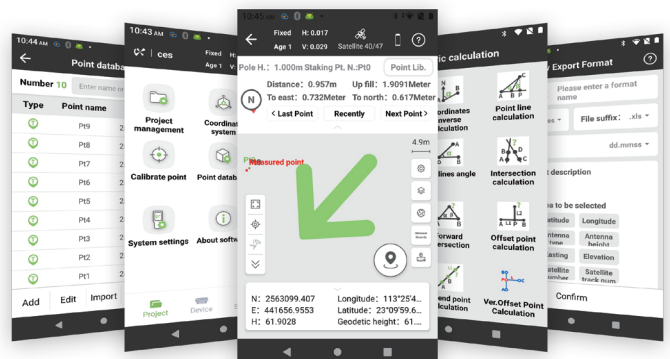


Alpha B55 Technical Indicators

Software platform	Android 11
CPU	8Core 2.0GHz
Storage	4G DDR4 +64G
Network system	NanoSIM 4G
Screen	5.5inch, resolution 720*1440
Bluetooth	BT5.0/BLE
Battery	3.7V,7700mAh
Type Nine keyboard	Backlit keyboard
Weight	335g

DiMap Field Software

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	1408
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, ALTB0C, 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	0~120°
Update Rate	100Hz

System Parameters

System	RTOS
ROM	8G
Data Record	DAT
Bluetooth	5.2 BR/EDR+LE
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	5W
Frequency	410-470MHz
Mode	5W Rx&Tx

Power

Voltage	5-12V QC2.0
Working Time	25h(Ntrip)

Port/Indicator

TNC	For connecting built-in radio antenna
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	Resistant to 2 meters of pole fall at room temperature (hard floor), 1.2 meters of free fall resistance
Humidity	100% condensation resistant

* 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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