

L2

α-GEO 

THE SMALLEST
IMU GNSS RECEIVER



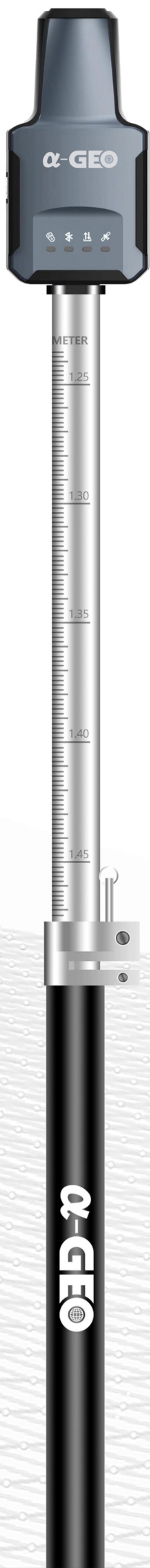
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THE SMALLEST GEODESIC GNSS DEVICE IN THE WORLD

L2 is the smallest geodesic GNSS device in the world so far, with a mass of less than 170g. However, the sparrow may be small but it has all the vital organs, it is equipped with a high-performance OEM board, and the number of channels has reached 1408. Supports all satellites and all frequency bands, and performs well even in complex environments. In addition, this small body is also equipped with a fast initialization, calibration free & immune to magnetic interference IMU module. All users can use this technology to collect or stakeout topo points up to 120°. Because of the ultra-small size of the device, it can basically meet the needs of various measurement scenarios, such as personnel positioning, GIS industry, pipeline measurement and so on.



SPECIFICATIONS



GNSS Performance	Satellites signals tracked simultaneously	GPS: L1C/A,L1C,L2C,L2P(Y),L5 BDS: B1I,B2I,B3I,B1C,B2a,B2b* SBAS: L1,L2,,L5 QZSS: L1,L2,L5,L6* Galileo: E1,E5a,E5b,E6* GLONASS: L1,L2
	Channels	1408 tracking channels
	Data Format	RTCM2.X、RTCM3.X
	Accuracy RTN	Horizontal: 8 mm+1 ppm RMS Vertical: 15 mm+1 ppm RMS
	IMU	Supported, 4D IMU initialization in 3 seconds Update rate: 400Hz Accuracy: < 2.5cm within120° Tilt compensation: 0-120°
	Speed	≤0.03m/s
	Start time	Cold Start≤30s, Hot Start≤3s
	Update Rate	1-20Hz
Electrical	Battery	Built-in lithium-ion battery, Support external power supply
	Capacity	1800mAh/8.4v, ≥10h working time
	Interface	Type-c 5V/2A
Communication	Data Interface	Type-C
	Bluetooth	Bluetooth V4.0
Environmental	IP	IP67
	Shockproof	Survive a 2m pole drop onto concrete
	Operating Temperature	-20°C to 75°C
	Storage Temperature	-40°C to 85°C
Button & Indicators	Button	1*Power Button
	Indicators	1*Power Light, 1*Bluetooth Light, 1*Data Light,1*Satellite Light
Physcal	Dimension	108mm×56mm×35mm
	Weight	≤170g

