

Specifications

MEASUREMENTS	GPS	L1, L2, L5	
	GLONASS	L1, L2	
	BDS	B1, B2, B3	
	GALIEO	E1, E5a, E5b	
	QZSS	L1, L2, L5	
	SBAS	L1	
	Data format	NMEA-0183	
	Differential format	RTCM 2.X, RTCM3.X	
	Positioning rates	MAX 20Hz	
	Re-acquisition time	<1s	
POSITIONING	Cold start	<40s	
	Autonomous	Horizontal: 1.5m Vertical: 3.0m	
	DGPS	Horizontal: 0.4m Vertical: 0.8m	
	Static	Horizontal: 2.5mm + 0.1 ppm	
		Vertical: 5mm + 0.1 ppm	
	Speed	0.03m/s	
	RTK	Horizontal: 8mm + 1 ppm	
		Vertical: 15mm + 0.1 ppm	
	Time	20ns	
	DATA STORAGE	Storage	8GB; Support TF card expansion up to 32GB
Differential		RTCM2.3, RTCM3.X, RTCM3.2, CMR, CMR+	
Data security		Multi channel to store and backup RTK measurement data	
Bluetooth		V4.2 dual mode (BT/BLE)	
COMMUNICATION	E-bubble	Support	
	IMU	Up to 60°	
	GSM	LTE-TDD/FDD/TD-SCDMA/UMTS/EVDO/CDMA1x/GSM	
	WIFI	802.11 b/g/n	
		External radio: 5W/35W Switchable	
	UHF	Internal radio: 0.5W/1W Switchable	
		Frequency: 410-470MHz	
		Protocol: TrimTalk, TrimMark3, SOUTH, PCC-EOT	
	BATTERY	Capacity	7.4V, 9750mAh
		Battery life	Typically >15h
ENVIRONMENTAL	Operating temp	-20°C~+70°C	
	Storage temp	-40°C~+85°C	
	Humidity	100%	
	Shockproof	Survive a 2m pole drop onto concrete	
	Ingress protection	IP67	
PHYSICAL	Material	Magnesium alloy housing + ABS/PC top cover	
	Dimension	Ø15.6*10.2cm	
	Interface	4 LED indicators, 2 buttons, i-voice	
	L8 GNSS receiver	1X	
ACCESSORIES	Power adapter	1X	
	7pin cable	1X	
	Radio antenna	1X	

This information is for reference only, and the product parameters will be modified without notice due to product upgrades, please understand!



TURNING THE ORDINARY INTO THE EXTRAORDINARY

Legend L8

866 CHANNELS GNSS RECEIVER



ALPHA GEO-INFO LIMITED

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<http://www.alphageo-info.com>

Features

LINUX & WEBUI

Linux+I.MX6UL Cortex-A7 intelligent system platform brings users efficient computing and unlimited expansion of product functions. And with embedded WEBUI, users can configure and operate the receiver more conveniently.

FULL GNSS CONSTELLATION

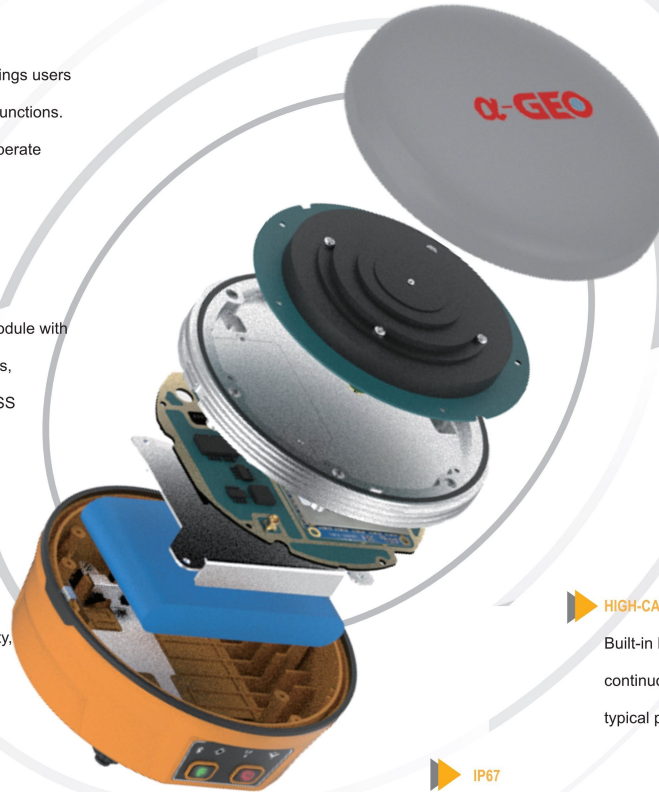
The receiver integrates a high-precision positioning module with completely independent core intellectual property rights, also supports BDS, GPS, GLONASS, Galileo and QZSS and other satellite navigation systems.

GSM MODULE

Full 4G Netcom solution based on Linux platform, fully supporting 2/3/4G network, with better compatibility, stronger signal and more stable connection.

4 IN 1 ANTENNA

The new four-in-one GNSS, WiFi, Bluetooth, 4G integrated antenna makes wireless signal better.



IMU

Immediately start with calibration-free tilt compensation technology, which assist you quickly and accurately survey or stake out points without leveling the pole and the error is less than 2cm within 60° inclination, boost working efficiency by 20%.

HIGH-CAPACITY BATTERY

Built-in high-capacity smart lithium battery to ensure continuous working time exceeds 15 hours in typical power consumption.

IP67

Industrial-grade design, sturdy aluminum alloy housing, high shockproof performance, waterproof and dustproof reach IP67 level.



Applications

Power Systems



Forestry System



Agricultural System



Building System



Water System



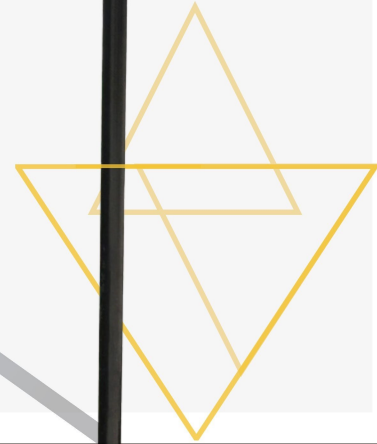
Traffic System



Land Resources



Engineering Survey





Surpro field software

Surpro is a field survey software that integrates general survey, point, line stakeout and road stakeout based on Android platform created by α-GEO. It has various parameter configurations, simple and friendly interface, comprehensive functions, multiple data format compatibility and report output, bring you a more concise, professional and efficient newer measurement experience!

The collage includes several screenshots of the Surpro software interface:

- Home Screen:** Shows a central map with a location pin and a 'Surpro' logo. Below it are icons for Project Management, Survey Data, Coordinate System, Convert Pair, Base Moved, Points Lib, Data Export, System Setting, and Data Share.
- TR Calibration:** A screen for 'TR Calibration' with a 'Known point' field and a 'Height' field set to 1.000 (Height of Point Base).
- Base Moved Adjust:** A screen for 'Base Moved Adjust' with a 'Known point' field and a 'Height' field set to 0.000.
- Rover Setting:** A screen for 'Rover Setting' with fields for 'Name', 'Elevation', 'Sub-network', 'ID', 'Code', 'Height', 'User', and 'Calculate'.
- Survey Tools:** A screen showing various surveying tools like 'Distance', 'Angle', 'Point', 'Line', 'Area', 'Perimeter Area', 'Offset Point', 'Spatial Dis', and 'Perimeter Area'.
- Project Management:** A screen showing a list of projects with columns for Name, Date, and Status.
- System Setting:** A screen showing various system settings like 'Project', 'Coordinate', 'Survey', and 'Tool'.

At the bottom right of the collage is a yellow and blue banner that says "Easy survey!".

