



ALGR -1 GNSS RTK SYSTEM

AN ADVANCED AND RELIABLE SURVEYING SOLUTION



ALGR -I GNSS RTK SYSTEM



KEY FEATURES



Multi constellations Tracking

184 tracking channels.
Supports GPS, Beidou, GLONASS, Galileo



Rugged Design

Rugged housing with IP67
Dustproof & Waterproof design.
Can survive 2 m drop onto concrete.



High level accuracy

Provides centimeter level accuracy no matter where you are



Greater efficiency with enhanced UHF

Upto 4 km range with 1W power consumption.
Tx/Rx with full frequency range from 866 MHz.



Powerful Battery

Powered by high capacity (6800mAh) Li-ion battery to ensure continuous operation.



Integrated GNSS Receiver

Integrated with a GNSS board, Bluetooth and adjustable TX & RX UHF Radio.
Smoothly work with every type of CORS with 4G modem in-built.



Multi Network Connection

supports GSM, NTRIP, Point to Point/Points, 4G.

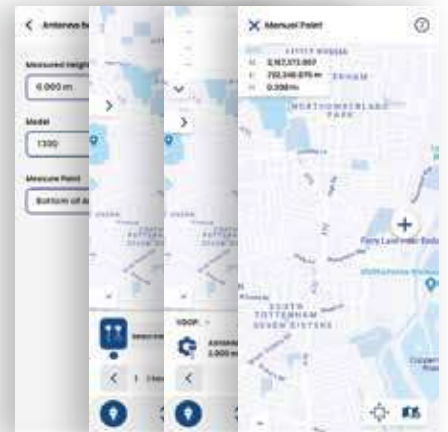


Easy to use

Small volume with small weight (850 g)

GEO MASTER SURVEY APP

Geo Master is Compatible with mostly all of the android devices, apogee controllers. It provides easier survey workflow via Wizard function. It supports all modes of survey, including Static, PPK and RTK. It also supports Surface Stake, Mapping Survey and etc. to serve various survey tasks.



APG-50 DATA COLLECTOR

4'5" capacitive touch screen with sunlight readability

Support of Bluetooth, WIFI and 4G

Typical Type-C interface

IP65 waterproof and dustproof

32GB storage

In-build 5000mAh battery

Fast Charging



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SPECIFICATIONS

Signal Tracking

184 channels for simultaneously tracking satellite signals

GPS	L1, L2
BeiDou	B1, B2
GLONASS	L1, L2
Galileo	E1, E5

Positioning Specifications

Static	8 mm + 0.5 ppm Horizontal 12mm + 0.5 ppm Vertical
Real Time Kinematic	15 mm + 1 ppm Horizontal 20 mm + 1 ppm Vertical
Frequency	Up to 10 Hz

Communications

UHF Radio :	Tx/Rx 865-867 MHz
Transmit power:	Upto 1 W (Adjustable)
4G modem	
4G Bands:	800/850/1800/2100 MHz
Bluetooth® :	V5.0 protocol

Data and Communication

Protocols:	NTRIP, VRS, RTCM 3.x
Position Output	NMEA Output
Position data output:	1 Hz, 2 Hz, 5 Hz, 10 Hz

Physical

Size(L × W × H)	140 mm × 99 mm
Weight	850 g
LEDs	Satellite Tracking RTCM In/Out Radio Status Bluetooth Status GSM Signal Strength

Environmental

Operating temperature	0 °C to + 50 °C
Storage temperature	-10 °C to + 60 °C
Humidity	90%
Waterproof and dustproof	IP67
Shock	Designed to withstand upto 2 m drop

Software

Android-based data collection software



Apogee Precision LLP

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