

Galaxy G5 is designed to enhance your performance in the field survey and to provide the most reliable positioning result.

It integrates a 1760 channels world leading GNSS positioning engine, a high precision IMU, a long range UHF radio, and a new interact operating system.

More features are to be discovered by you...



Galaxy G5

Improving Never Stops























More channels and all constellations tracking

With 1760 GNSS channels solution, Galaxy G5 can support multi-constellation and multi-frequency tracking with the help of high-performance GNSS antenna.

Color touch screen, makes workflow simpler

HD 1.3-inch color LCD touch screen with high brightness and low power consumption, which is convenient and efficient to complete touch settings, information browsing, function settings.

More powerful inbuilt radio

Coupling a high-performance UHF module with Farlink communication technology, which increases signal sensitivity and transmission efficiency, Galaxy G5 really achieves the goal of a $10\sim15$ km ultra-long-distance working range. And the power consumption of this carrying new generation module is 60% lower than additional UHF, making the Base working time is much longer.

Superior Endurance, Up to 25 hours working

Galaxy G5 uses a built-in 10000mAh ultra-large capacity Li-ion battery, which can last 25 hours of continuous work (Static) benefits from low power consumption circuit design. The Type-C interface is used on G5 that it can support fast charging through a charger with PD protocol, and it can be full charged in 4 hours.

Double data backup

The measured data can be simultaneously stored into both internal memory of receiver and controller, realizing the measured data double backup, which effectively avoid data loss.

Outstanding IMU measurement

Built-in 4th-generation IMU automatic compensator corrects the coordinates to the pole tip, assisting surveyors to quickly and accurately measure or stake out point at will without strictly leveling the receiver, the tilt angle range can achieve up to 60°.

Upward and hidden UHF antenna design

Upward UHF antenna design, achieving all-direction UHF signal receiving and transmitting. And the antenna interface is hidden into top cover that effectively avoid accident breaking, protect from water and dust.

Intelligent base signal locking technology

Using one-to-one signal tracking and locking technology, and the independent frequency under Farlink protocol, the G5 rover can continuously lock and capture the target base station signal to reduce cross-frequency interference even though other base stations are working nearby with the same channel.

Smart system management-ROS

Galaxy G5 is integrated with the ROS system, which comes with intelligent deployment of multi-mode hardware components, strong computing power and an intelligent scheduling mechanism, and coupling with an ultra-fine memory management mechanism, making the fluency and running speed of the receiver comprehensively improved.

SPECIFICATIONS

GNSS Features	
Channels	WIFI
GPS	Modem
GLONASSL1C/A, L2C/A, L2P, L3CDMA	WIFI hotspotReceiver broadcasts its hotspot form web UI
BDS	accessing with any mobile terminals
GALILEO	WIFI datalink
SBASEGNOS, WAAS, GAGAN, MSAS, SDCM(L1,L5)	data stream via WiFi datalink
QZSSL1C/A, L1C, L2C, L5, L6	
NavicL5	
On module L-Band (Reserve)	Data Storage/Transmission
Positioning output rate	Storage16GB SSD internal storage standard, extendable up to 64GB
Initialization time<10s	Automatic cycle storage (The earliest data
Initialization reliability>99.9%	files will be removed automatically while the
	memory is not enough)
Positioning Precision*	Support external USB storage
Real-time kinematic	The customizable sample interval is up to 20Hz
(Baseline<40km) Vertical: 10 mm + 1 ppm RMS	Data transmission Plug and play mode of USB data transmission
(======)	Supports FTP/HTTP data download
GNSS static Horizontal: 2.5 mm + 0.5 ppm RMS	Static data formatSTH, Rinex2.x, Rinex3.x
Vertical: 5 mm + 0.5 ppm RMS	
vertical. o mm · o.o ppm rawe	Differential data formatCMR, RTCM 2.x, RTCM 3.x(MSM included)
Standalone Horizontal: 1.2m Vertical: 1.9m RMS	Position output data formatNMEA 0183, PJK plane coordinate, SBF
	Network model supports Fully support NTRIP protocol
DGNSS	
RTK initialization time	Sensors
IMU tilt compensation Additional horizontal pole tip uncertainty	Electronic bubble Controller software can display electronic
typically less than 10mm + 0.7 mm/° tilt down to 30°	bubble, checking leveling status of the
IMU tilt angle	carbon pole in real-time
	IMU Built-in IMU module, calibration-free
Hardware Performance	and immue to magnetic interference
Dimension	Thermometer Built-in thermometer sensor, adopting intelligent
Weight	temperature control technology, monitoring
Material	and adjusting the receiver temperature
Operating temperature -45°C ~ +65°C	and adjusting the receiver temperature
Storage temperature45°C ~ +85°C	User Interaction
Humidity	Operating systemLinux
Waterproof/DustproofIP68 standard, protected from long	Operating systemLinux
time immersion to depth of 1m	Buttons
IP68 standard, fully protected against	Indicators 3 LED indicators
blowing dust	Display
Shock/VibrationWithstand 2 meters pole drop onto	Web interaction With the access of the internal web interface
the cement ground naturally	management via WiFi or USB connection, users
Power supply6-28V DC, overvoltage protection	are able to monitor the receiver status and
BatteryInbuilt 10000mAh rechargeable.	change the configurations freely
BatteryInbuilt 10000mAh rechargeable,	Voice guidance It provides status and operation voice guidance,
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