

GINTEC

G30



All constellations



Tilt survey



AP hot spot



NFC



Built-in Radio
6km



Cloud service



IP68

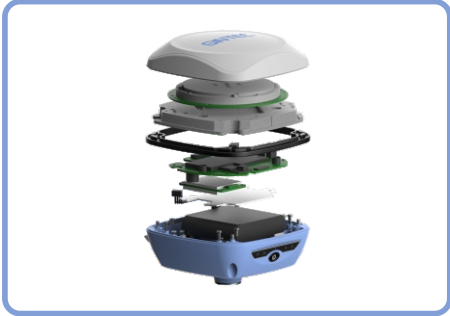
GUANGZHOU GEOSURV INFORMATION TECHNOLOGY CO., LTD.

FEATURE



New Powerful RTK Engine

G30 is equipped with powerful GNSS RTK engine, which has **965** channels and support to capture all the running satellite signals. This RTK engine can effectively suppress signal interference. Even in complex environment, it still can provide users with reliable location information service.

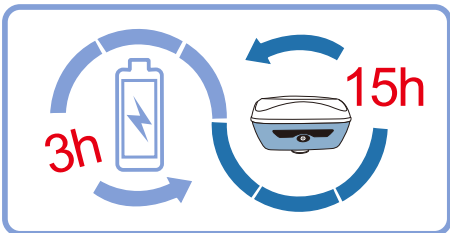


New Generation SOC Chip

G30 is integrated with advanced **SOC** chip, which comes with high integration, small size, low power consumption and fast running speed.

Small and Light Design

G30 adopts highly integrated layered design to ensure performance and endurance while considering portability of outdoor work. Its weight is only **888g**.



Long-endurance Working Time

The built-in 6800mAh high-performance battery can support 15 hours long working time. With PD fast charging, the battery can be fully charged in 3 hours. The Type-C interface can support portable battery to charge G30.

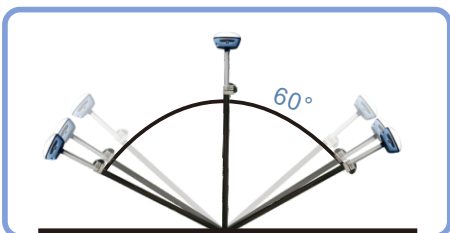
Base Moving Alert

With the built-in tilt attitude module, G30 can read the attitude information in real time. When the set-up Base receiver was accidentally moved, it can immediately send alert to remind users.



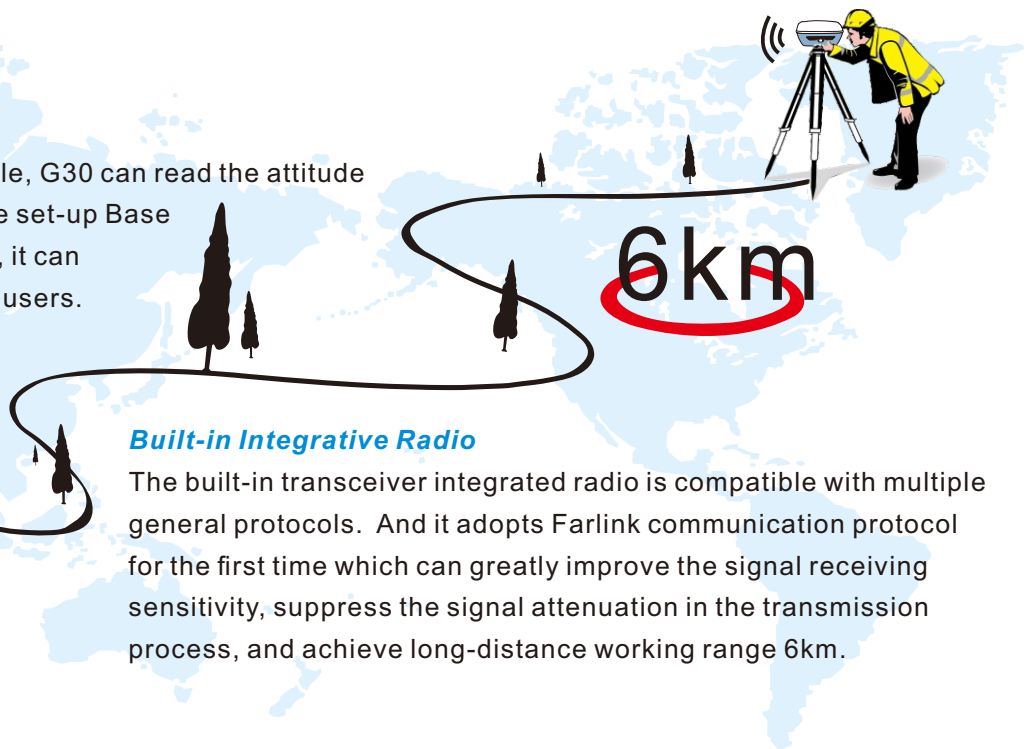
Built-in Integrative Radio

The built-in transceiver integrated radio is compatible with multiple general protocols. And it adopts Farlink communication protocol for the first time which can greatly improve the signal receiving sensitivity, suppress the signal attenuation in the transmission process, and achieve long-distance working range **6km**.



IMU Tilt Survey

G30 is integrated with new generation IMU measurement unit which can make tilt survey more stable and accurate without magnetic field interference. User can easily finish surveying while walking and doesn't need to adjust balance strictly.



SPECIFICATIONS

• GNSS

Channels	965
Satellites	GPS: L1 C/A, L2C, L2P, L5 GLONASS: L1C/A, L1P, L2 C/A, L2P BeiDou: B1, B2, B3 BeiDou Global Signal: B1C, B2a, B2b Galileo: E1, E5a, E5b, E6, E5 AltBOC SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM QZSS: L1, L2C, L5 IRNSS: L5 L-Band: Optional
Cold Start	<30s
Signal Recapture	<1s

• Accuracy

Static Accuracy	Horizontal: $\pm (2.5\text{mm}+1\text{ppm})$ Vertical: $\pm (5\text{mm}+1\text{ppm})$
RTK Accuracy	Horizontal: $\pm (8\text{mm}+1\text{ppm})$ Vertical: $\pm (15\text{mm}+1\text{ppm})$
IMU Tilt Angle	$0^{\circ}\sim 60^{\circ}$
IMU Accuracy	10 mm + 0.7 mm/ $^{\circ}$ tilt (1.8m pole)
Update Frequency	5Hz (up to 20Hz raw data collection)

• POWER

Battery	Internal Li-on, 6800mAh, 7.2V
Duration	>15h
Input	6-28V DC, Overvoltage protection

• Physical

Material	Magnesium aluminum alloy shell
Dimension	135mm (Diameter)x84mm (Height)
Weight	888g

• Operation

Button	One button operation
Indicator	4 indicators
Voice Prompt	Support for multiple languages: Chinese, English, Russian, Portuguese, Spanish, Turkish France and user define
Web UI	Support to access Web UI via Wi-Fi and USB

• SYSTEM

Operation System	Linux
Memory	4GB Internal Storage
Bluetooth	Bluetooth 3.0/4.1, Bluetooth 2.1 + EDR standard
NFC	Support
WIFI	802.11 b/g standard
WIFI Data Link	To work as the datalink that receiver is able to broadcast and receive differential data via WIFI
Mobile Network	LET FDD: B1/B3/B5/B7/B8/B20 LET TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM:850/900/1800/1900MHZ
Internal UHF	Power: 1W Frequency: 410~470MHz Work Distance $\geq 6\text{km}$
Protocol	SOUTH, Farlink, Trim Talk, Hi-target, CHC, Satel
Data Transmission	USB data transmission and FTP/HTTP data download
Data Format	Differential data format: RTCM 3.X, RTCM2.X, CMR, sCMRx, DGPS, RTCA, NOVATELX GPS output data format: NMEA 0183, PJK plane coordinates, Binary code Network model support: VRS, FKP, MAC, fully support NTRIP protocol
Tilt Survey	IMU Tilt Survey Compatible with SurPad and CreateYours

• INTERFACE

TNC	UHF Antenna
Type-C	Charge and Data Transmission
7pin	NMEA Out Put
Other	Micro SIM Slot

• ENVIRONMENT

Work Temperature	- 25 $^{\circ}\text{C}$ ~+65 $^{\circ}\text{C}$
Stock Temperature	- 35 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$
Waterproof/Dustproof	IP68 Standard
Shock and Vibration	Withstand 2 meters pole drop
Humidity	100%