

Specifications



Positioning

| | |
|---------------------------|----------------------------|
| Channels | 1408 |
| GPS | L1C/A,L1C,L2P(Y),L2C,L5 |
| GLONASS | G1,G2,G3 |
| BDS | B1I,B2I,B3I,B1C,B2a,B2b |
| GALILEO | E1,E5a,E5b,E6 |
| QZSS | L1,L2C,L5,L6 |
| NAVIC(IRNSS) | L5 |
| SBAS | L1C/A |
| PPP | B2B-PPP E6-HAS |
| Data Update Frequency | 50Hz |
| Positioning Frequency | 1Hz 2Hz 5Hz 10Hz 20Hz 50Hz |
| Cold Start Time | <12s |
| Initialization Time | <5s |
| Initialization Confidence | >99.9% |



Measurement Accuracy

| | |
|--------------------------------|------------------------------------|
| Static Mode Accuracy | H:±2.5mm+0.5ppm V:±5.0mm+0.5ppm |
| Single Point Solution Accuracy | H:1.5m V:2.5m |
| Differential Solution Accuracy | H:0.4m V:0.8m |
| RTK Accuracy | H:±8.0mm+1ppm V:±15.0mm+1ppm |
| Time Accuracy | 20ns |
| Tilt Measurement Accuracy | ≤2.5cm within 120° |



Power

| | |
|--------------|---|
| Battery Life | Static 20h,Rover 16h,Base 10h |
| Power Supply | Built-in Li-ion 9V/2A MAX18W 3.6V_13200mAh |



Physical Properties

| | |
|------------------|--|
| Shell Material | Magnesium-Aluminum Alloy |
| Weight | 990g |
| Dimensions | Φ135*90mm |
| Button | Power Button |
| Indicator Lights | Satellite Signal Light, Data Transmission Light, Current Battery Light |



Laser - Easy

| | |
|----------------------|---|
| Type | Class 3R, red |
| Range | 0.05-49.99m By Daylight 0.05-99.99m By Moonlight |
| Distance Accuracy | 2mm @1σ |
| Tracking Measurement | 5-20Hz |
| Accuracy | 2cm within 5m 3cm within 10m |



System

| | |
|------------------------|---|
| Operating System | Linux |
| Memory | 8G |
| Data Transmission | 4G/Bluetooth/WIFI/Radio |
| Bluetooth | V5.0,BLE |
| WIFI | 802.11a/b/g/n |
| Radio Power | 1W |
| Radio Frequency | 410-470MHz |
| Radio Channel Quantity | Up to 99 channels |
| Air Baud Rate | 19200, 9600, 4800 |
| Supported Protocols | Gintec Work, TrimTalk450s(T), TrimMark III, SOUTH, PCC-EOT, Hi-target, Satel, Farlink, etc. |
| Supported Languages | Chinese, English, Polish, Turkish, Korean, Indonesian, Spanish, Telugu, Russian, etc. |



Camera

| | |
|----------------------------|--------------|
| Number of Lenses | 2 |
| Front Lens Field of View | 83.4° |
| Front Sensor Pixel | 2 Mega Pixel |
| Front Camera Focal Length | 5m |
| Front Sensor Resolution | 1920*1080 |
| Bottom Lens Field of View | 83.4° |
| Bottom Sensor Pixel | 2 Mega Pixel |
| Bottom Camera Focal Length | 2m |
| Bottom Sensor Resolution | 1920*1080 |



Environmental Adaptability

| | |
|----------------------------------|----------------------|
| Operating Temperature | -30 C~+65 C |
| Storage Temperature | -40 C~+80 C |
| Water and Dust Resistance Rating | IP68 |
| Operating Humidity | 99.9% non-condensing |

GINTEC
TAKE POSITION ASSURED



REACH THE **UNREACHABLE**

G50 Laser RTK, Precise Measurement, Your Choice Of Confidence.

GINTEC

TEL: 8620-82514956 | Website: www.gintec.cn | Email: overseas@gintec.cn
ADD: Room606, Building A02, No. 83, Kaiyuan Avenue, Huangpu District, Guangzhou, Guangdong, China

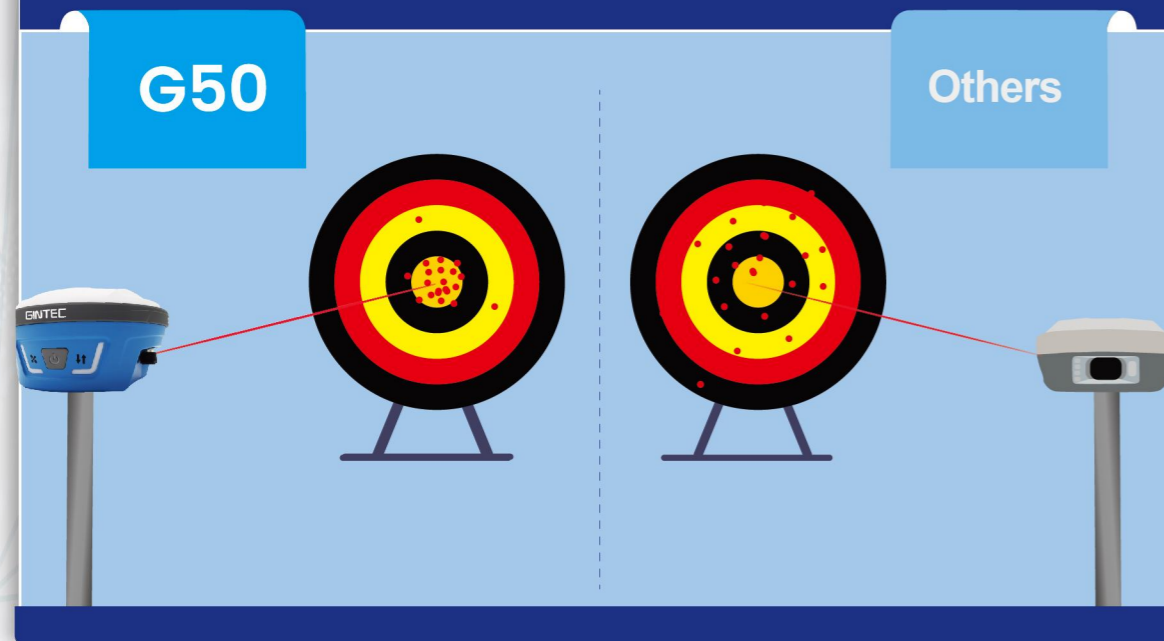


Reach The Unreachable

Laser-Easy

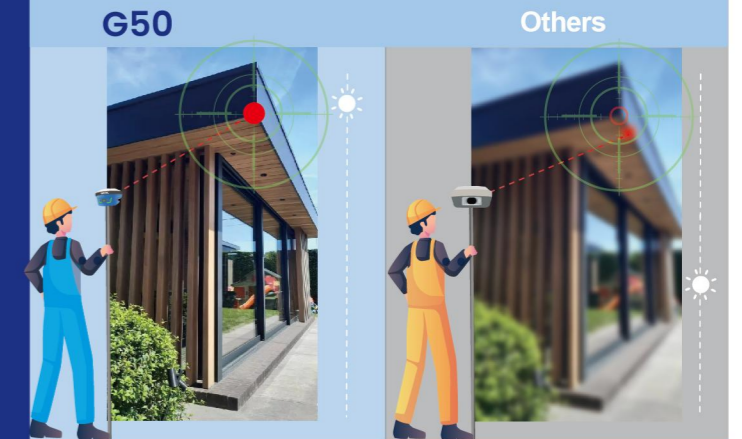
1 Higher Laser Positioning Accuracy and Stability

G50 exhibits small data variation after multiple measurements under the same conditions. It stands out itself by adopting Mileseeey's leading edge EDM laser unit & unique Laser-Easy laser ranging algorithm, ensuring both the accuracy and stability of the data.



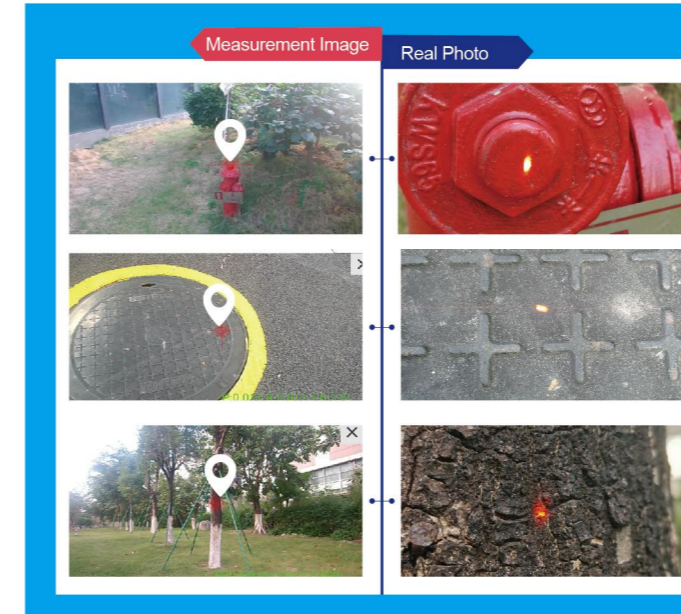
2 Clearer & Brighter Laser Spot

Emitting Class 3R red laser, G50 targets the objects in a brighter and clearer laser point, achieving more efficient laser measurement.



3 Measure any Objects Accurately

With higher-intensity laser emission and superior reflectivity, G50 maintains stable ranging results in measuring objects, regardless of their colors and materials.

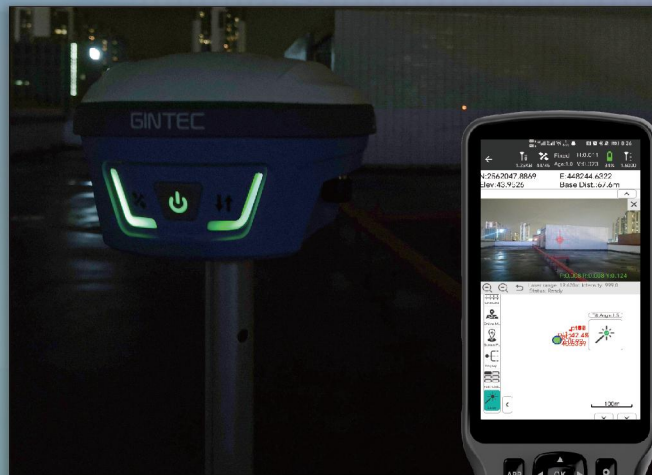


Excellent Features



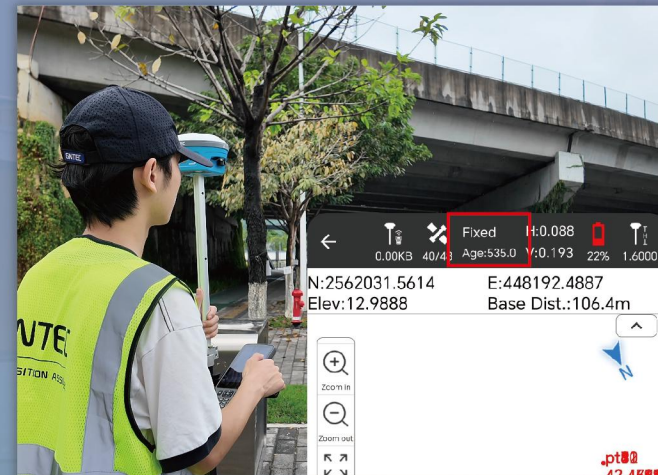
Laser Stakeout

- By integrating the latest IMU, algorithms, and EDM characteristics, G50 supports real-time laser staking-out for difficult measurement points, ensuring accuracy, efficiency and ease of use.



HD Stellar Camera

- Adaptive exposure adjustment under different lighting conditions + IR Filter, it is more suitable for dark vision usage, effectively filtering infrared light and significantly improving nighttime shooting results.



G-FIX Correction Outage Technology

- Extending FIX solution up to 10mins
- Reducing downtime waiting to re-establish RTK corrections



Up To 120° Tilt Within 2.5cm Accuracy

- The use of 4th-generation measurement technology ensures the G50 can still get fixed for tilt measurement work at even 120°.



GALILEO HAS/BDS PPP Service Supported

- HAS provides free high-precision PPP correction services on the Galileo E6-B signal to improve real-time user positioning performance.
- BDS PPP provides free BDS high precision PPP correction services within its coverage area.



Augmented Reality (AR)

- Cutting-edge dual-camera system significantly enhances accuracy and guidance during measurement and staking out processes.

CreateYours

self-developed, quick-response, android

PROFESSIONAL
USER-FRIENDLY
RICH FUNCTION MODULE
SURVEY AND MAPPING
HANDHELD ANDROID APPLICATION



Multiple Base Map
Options: Google Map,
WMS CAD



Pro+ Laser Survey
Mode Specifically
Designed for G50



Auto-Drawing
Line/Polygon while
Collecting Points



Powerful CAD Engine
and Polygon Tools



DSM-based Terrain Staking



Easy to Conduct Road
Design and Staking



Data Sharing among Team,
One Click Easy Transmission

P3 Handheld Controller

Trusted by Thousands: Join Our Users in Experiencing
Exceptional Measurement Solutions!

A durable and practical tool for surveying and mapping. With IP68 industrial-grade waterproofing, dustproofing, and shockproofing. Its 5.5-inch FHD display, 800 Nits screen brightness, and 9000mAh battery provide clear visuals and up to 20 hours of continuous operation. Experience the power to conquer any terrain with precision and efficiency.

KEY FEATURES



5.5 Inch
High-Brightness Display



1080*1920
Resolution



8 Cores
Processors



4+64G
RAM+ROM



800 Nits
Sunlight-readable with
enhanced visual experience



Corning Gen3
Excellent strength and durability



9000mAh
High-Capacity Battery

