

G4

Stay Powerful

Anytime

Anywhere

SOUTH GNSS 2023/11/20



Content

Hardware and Accessories

The 6 Improvements

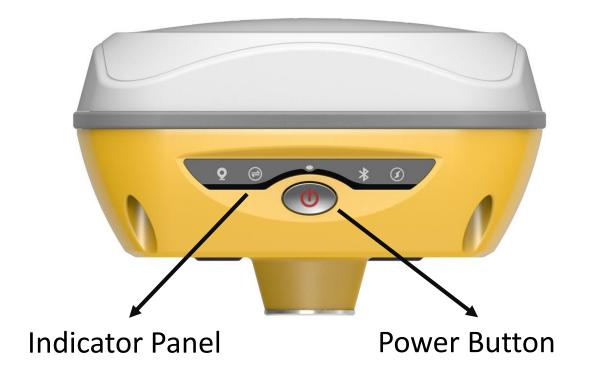
Functions to Be Added

Part 1

Hardware and Accessories

















G4 Base and Accessories





- ✓ Carrying Case for Base
- √ G4 Receiver
- ✓ Height Measurement Plate
- √ 30cm Support Pole
- ✓ UHF Antenna
- ✓ PD Charger and Cable
- ✓ Connector
- ✓ Spacer



G4 Rover and Accessories





- ✓ Carrying Case for Rover
- √ G4 Receiver
- ✓ Height Measurement Plate
- ✓ Type-C cable
- ✓ UHF Antenna
- ✓ PD Charger and Cable
- ✓ Carbon Fiber Pole
- ✓ Connector



G4 Rover + Base and Accessories





- ✓ Carrying Case for Rover +Base
- ✓ G4 Receiver * 2
- ✓ Height Measurement Plate * 2
- ✓ Type-C Cable
- ✓ UHF Antenna * 2
- ✓ PD Charger and Cable * 2
- ✓ Carbon Fiber Pole
- √ 30cm Support Pole
- ✓ Connector * 2
- ✓ Spacer



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Hardware and Accessories

The 6 Improvements

Functions to Be Added

Part 2

The 6 Improvements

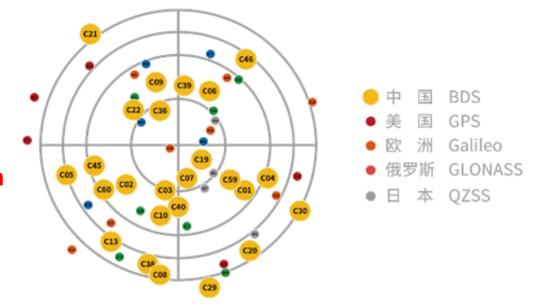


1. S805: More Channels, More Speed and Stability in Fixed Solutions



What is Updated:

- **1. 1698** channels
- 2. Improved multi-satellite positioning algorithm



- The increase in channels enables faster tracking on available satellites and capturing weak signals.
- 2. In dense forests or surrounded by buildings, G4 has a better success rate and speed in obtaining fixed solutions than the previous generation of products.



1. S805: Md in Fixed Solu

ability



Galileo GLONASS

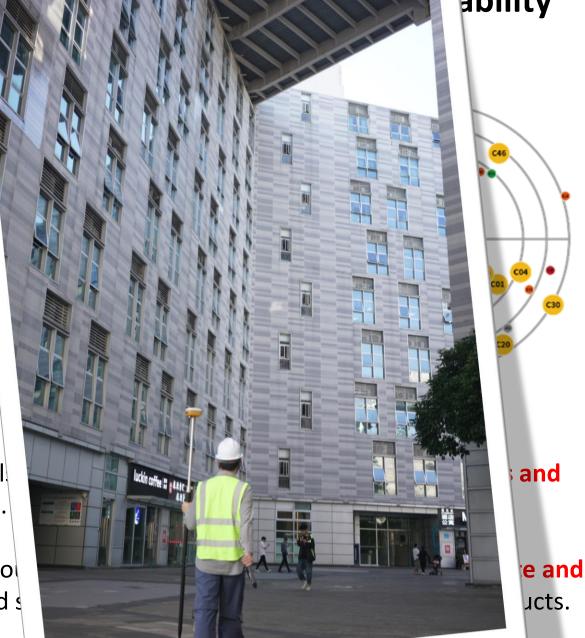
QZSS

What is Updated:

1698 channels

Improved multi-satell

- The increase in channel capturing weak signals.
- In dense forests or surro **speed** in obtaining fixed \$





1. S805: More Channels, More Speed and Stability in Fixed Solutions







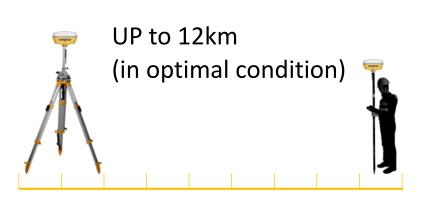
2. Farlink 2.0: Less Limitation, More Performance



What is Updated:

- 1. The core components, firmware, and working parameters of radios are updated at least twice a year
- 2. Lock one specific base even if other bases are the same frequency
- 3. Extreme temperature-changing tests from -20°C to 60°C

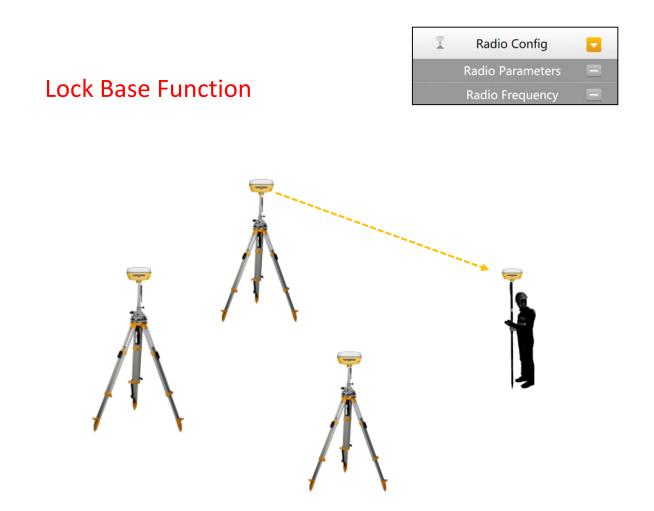
- 1. Always optimize for users
- 2. Always work with the correct base, less time wasted
- 3. More durable





2. Farlink 2.0: Less Limitation, More Performance





> Radio Parameters		
Enable:	✓	
High Performance Mode:		
Air Baud Rate:	9600	~
Data Baud Rate:	115200	~
Channel Num:	1-20	~
Channel:	1	~
Power:	Н	~
Protocol:	FarLink	~
LockBase:	Enable	~
BaseNetID:	1111	
BaseAlarm:	Enable	~
Factory Default:	Factory Default	
	Enter Cancel	



3. The 4th Generation IMU: Almost All-time Usable



What is Updated:

- 1. Keep IMU available even when turning around or rotating the pole
- 2. Calibrate-free initialization, only need to walk

- Efficient when working with IMU
- 2. Time-saving, Convenient, reduce the time in manually initializing IMU





3. The 4th Generation IMU: Almost All-time Usable













4. Materials: More Robustness and Durability for Work



What is Updated:

- 1. AZ91D magnesium alloy, resistant to scratches, impacts, and rust
- 2. Silica gel waterproof/dustproof ring
- Polycarbonate by one-piece molding, fire resistance and anti-deformation

Benefits:

Rugged and reliable to undertake tough missions







5. Appearance Design: By Surveyors, For Surveyors



What is Updated:

- 1. Conspicuous yellow bodywork according to users' advice
- 2. Redesigned indicators (icon and color) according to users' feedback





- Easy-to-recognize color protects surveyors and receivers in cities and forests
- 2. Check working status clearly even at night or from long distances



5. Appearance Design: By Surveyors, For Surveyors







6. Function Modules: A Guarantee to User's Demand



What is Updated:

- 1. Complete set of modules installed: network, Bluetooth, WiFi, NFC, IMU, radio
- 2. Extendable SSD (up to 64GB), OTG supported

- 1. Comprehensive functions and usage scenarios: domestic or foreign, have network or not. Work with the appropriate data link.
- 2. More static data, more accuracy without worry about storage













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Hardware and Accessories

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Functions to Be Added

Part 3

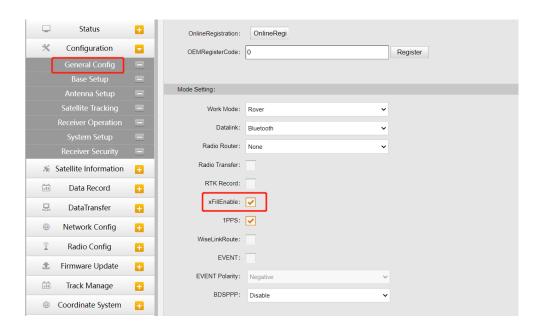
Functions to Be Added

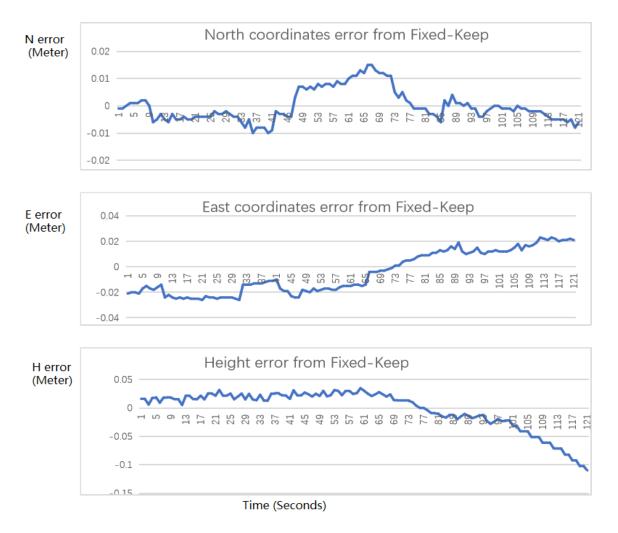


Fixed-keep (already added)



- Fixed-keep technology can extend RTK positioning for several minutes while the corrections are interrupted or not available.
- ➤ It makes workflow smooth even with poor signals.







New Functions to be Added





1) Unique SOUTH algorithm deals with ionospheric effect



2) Galileo HAS & Beidou PPP

- 1. Ensure accuracy and stability when the ionosphere is active.
- 2. Work without CORS corrections, the accuracy can reach decimeter-level



