

GNSS Features

Positioning Precision

Hardware Performance

Communications

WIFI

Data Storage/Transmission

Sensors

User Interaction

Items marked with * will be upgraded along with the update of assigned firmware

SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

A white, modern, solar-powered street lamp stands in the foreground. The lamp has a cylindrical body and a flat top with a yellow stripe. Below the stripe is a control panel with a power button and several indicator lights. A black cable hangs from the side of the lamp. In the background, there is a construction site with a green safety fence, yellow cranes, and stacks of white building materials under a clear blue sky.



Extraordinary GNSS....

The GNSS unit of G8 is integrated with an advanced **SoC** which is a chip comes with the advantage of high integration and low power consumption, efficiently suppress the interference signals, and obtain higher quality observation data from satellite constellations.

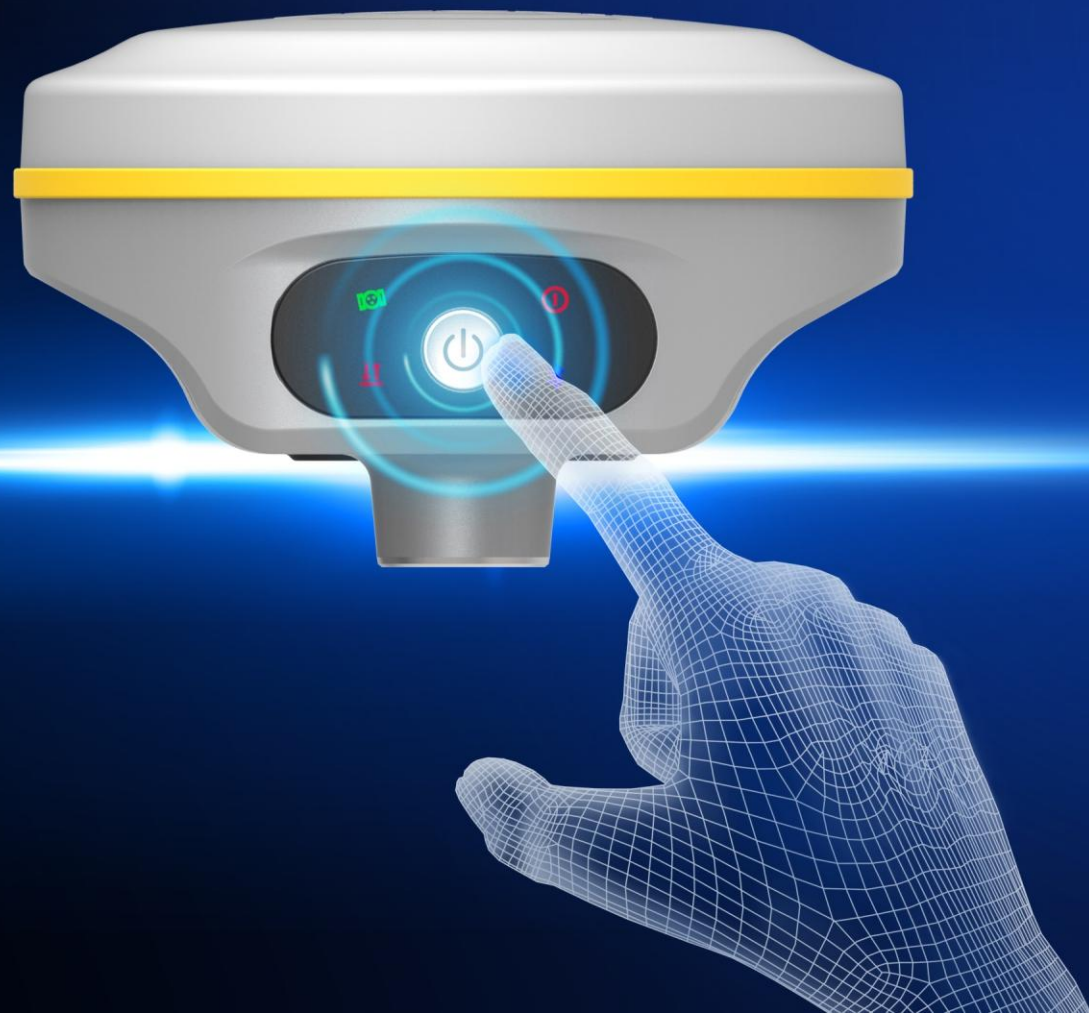
Combines with powerful GNSS RTK engine with **1598** channels, and the new generation high sensitivity antenna, G8 achieves centimeter precision in seconds while fully tracking GPS, GLONASS, BEIDOU, GALILEO and QZSS signals.



Brilliant design

Single button boot design, one button evokes all RTK operations.

The body screen adopts a translucent high-strength panel, which has a stronger visual sense of technology. Plus four color indicator lights, common information is clear at a glance.



Smart unit of tilt measurement

An inbuilt high performance **IMU** automatic compensator which corrects the coordinates to the pole tip, that assists users quickly and accurately measure or stake out points at will without strict leveling the receiver, it helps surveyors boost productivity by 30 percent. Furthermore, the compensation is still available even though the fixed solution is lost at a short time, surveyors are able to continue the job after fixed solution recovers without initializing again for the IMU module. And the tilt angle range can achieve to 60°.

Unmatched connectivity

Built-in SOUTH self-developed digital radio, with an advanced protocol **“Farlink”**, makes G8 achieve the typical working range as 8km. The transmission bandwidth of “Farlink” becomes large, and it increases the sensitivity of radio signal capture, which perfectly solves the problem of large data volume of multiple constellations transmission. And the power consumption can reduce about 60% in the same amount of data transmission compare to the traditional RTK.



Unlimited productivity

The new generation of SoC platform gives RTK more stable performance and lower power consumption. The built-in 6800mAh high-performance battery can support more than **15 hours** of continuous operation. Featuring with a universal type-C interface, G8 allows to charge the built-in batteries with a PD rapid charger, and support power supply from a power bank to ensure a full-day work.

Both internal memory and web interface are accessed by this type-C interface simultaneously without switching working mode for this port.