

Geosurvey



THE BEST RTK TECHNOLOGY

SMART G1 2023

GNSS RTK RECEIVER
WITH CALIBRATION-FREE
TILT COMPENSATION



Performance

Channel	432 Channel
Signal Tracking	
GPS	L1 / L2 / L5
GLONASS	L1 / L2
BeiDou	B1 / B2 / B3
Galileo	E1 / E5A / E5B
QZSS	L1 / L2 / L5
SBAS	L1
Update Rate	1HZ . 20HZ

Accuracy

STATIC	
Horizontal: 2.5mm + 1 ppm	Vertical: 5mm + 1 ppm
RTK	
Horizontal: 8mm + 1 ppm	Vertical: 15mm + 1 ppm

Electrical

Capacity	Internal Battery 9600mAh
Endurance	More than 9 hours

Communication

Data Storage	32GB
Bluetooth / Wifi	V2.1+EDR/V4.1 Dual Mode, Class 2 Wifi
Network Communication	Built-in Receiving Radio/GSM/GPRS/EDGE/WCDMA/LTE/4G

Physical

Weight	0.65kg
Dimensions	100mm x 100mm x 61mm
Operating Temperature	-20C ~ + 60C
Waterproof/Dustproof	IP67
	Withstand Drop From 1.5m To Concrete

Connections

USB	TypeC
Sim Card	Micro Sim Card

Data Format

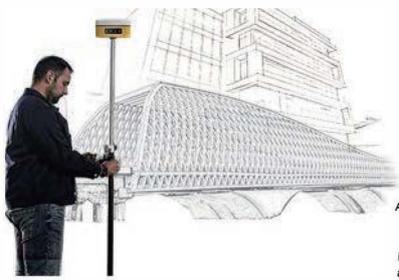
Correction Format	RTCM v3.2 RTCM v2.3 CMR- CMRX
Data Output Format	NMEA 0183-Binary code
Network Correction	VRS-IMAX-FKP-ALL Nrtio Protocols

SMALL

SMART

STRONG





CE CERTIFICATE

Acquisition of CE standard makes this receiver to obtain export licenses to European countries, including Germany, France, etc., and thanks to its high quality and facilities, it can compete with other European receivers.



SOFTWARE

The Android operating software of the device called SURPRO finally has comprehensive mapping and operational programs. This software does not require a registry code and the number of installation and use on any number of mobile phones or all types of Android controllers is unlimited.



FULL GNSS CONSTELLATION

The new generation of GNSS board used in Smart G1 Receiver, which supports all GPS, GLONASS, BeiDou & Galileo positioning systems and relying on a special GNSS antenna, gives the best performance. UHFHF of Smart G1 Receiver in urban areas and near tall buildings as well as covered areas.



WEBUI

A fast and efficient way to monitor and control hardware devices. Also offers access to the most commonly used features via the existing web browser on your device of choice, so there is no need to download or install anything!



DIMENSION & WEIGHT

Smart G1 Receiver is one of the lightest and smallest receivers produced in 2021. The light weight (only 650 grams) and the miniature dimensions of the device make it easy to move and do not tire the surveyors during daily operations.



FAST CHARGE

Benefit from the latest battery charging technology (Fast Charge) in the Smart G1 Receiver. The device is charged in the fastest possible time and Power Bank during surveying operations, there is no need to worry about the receiver running out of power.



32GB INTERNAL MEMORY

Utilizing 32 GB of internal memory in the Smart G1 Receiver, it is possible to retrieve static data for up to 90 days continuously.



IMU

Immediately start with calibration-free tilt compensation technology, assist you quickly and accurately survey or stake out points without leveling the pole, error less than 2cm within 60° inclination, boost working efficiency by 20%



DIRECT RINEX

Direct storage of data in Rinex format in different versions and sending it to any server is another advantage of Smart G1 Receiver.



INTERNAL UHF (OPTIONAL)

Integrated UHF ranges from 410 to 470 MHz



BATTERY

One of the important things in choosing a RTK Receiver for Surveying projects is the ease of the surveyor's imagination of the high capacity of the device battery. Smart G1 Receiver while using a high-capacity battery (9600 mAh) performs more than 10 continuous work hours.



LIGHT WEIGHT RUGGED BODY

The presence of a very light, durable, and metal body in the Smart G1 Receiver makes the device very resistant to possible shocks and brings you ease of work and confidence in performing various surveying projects.



IP67 & OVER HEAT OFF

The IP67 standard allows the Smart G1 Receiver to be used comfortably in a variety of weather conditions, and the design of the thermometer sensor inside the receiver can make receiver automatically shuts down for minimal damage when temperatures are over 80°C. So that it will not defect the electronic components of the device. By using this standard and OHO technology, the operation of the Smart G1 Receiver is guaranteed in all weather conditions.



GSM MODULE

The latest telecommunication module technology used in Smart G1 Receiver makes this device can be easily connected to all telecommunication networks, including 2G, 3G, 4G, LTE by using the internal SIM card. Also, using with integrated internal GSM antenna, the user does not need to use external antennas in/outside the city, which generally have weaker telecommunication network coverage, it is easily connected to the Internet and receives the corrections from available CORS server.

