SOKKIA

MADE TO FIT YOUR WORLD.

GRX5

GNSS Receiver

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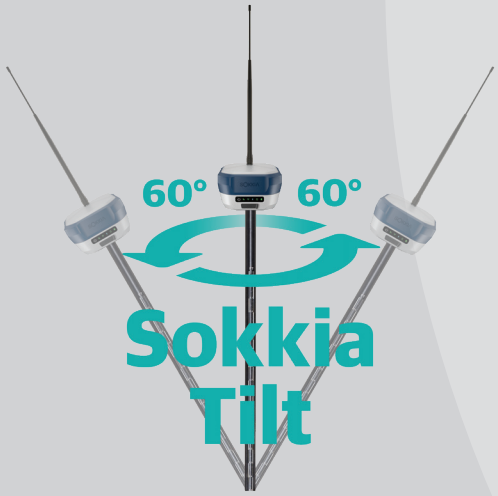
Positioning made easy

This fully integrated all-in-view constellation RTK GNSS receiver brings a new level of versatility and flexibility into your precision positioning applications. The GRX5 provides unmatched usability and versatility that's sure to enhance your productivity.

And like all Sokkia products, you can customize it to meet your needs and create your own workflows.

- Sokkia Tilt Technology up to 60 degrees
- Anti-jamming and anti-spoofing capabilities
- 448 channels covering all modernized signals (GPS, GLONASS, Galileo, BeiDou, IRNSS, QZSS, SBAS)
- Available with integrated UHF radio
- Universal USB-C connectivity and battery charging
- Hybrid Positioning™ technology automated workflow
- Static, Standard RTK and Network RTK
- IP67 rated



Sokkia Tilt Technology

The Sokkia GRX5 incorporates a revolutionary IMU which is calibration-free and immune to magnetic interference. This advanced technology compensates for mis-leveled field measurements out of plumb by as much as 60 degrees. Awkward shots on steep slopes or hard to reach spots are now a breeze with tilt technology.

Open Architecture

The GRX5 architecture is designed so that third parties can write their own applications.

All Constellation Support

Featuring 448 hardware channels, the GRX5 tracks all visible supported satellite signals simultaneously.

Multiple Wireless Technologies

The most commonly used wireless technologies can be integrated into the GRX5 receiver. Digital UHF, Long-range Bluetooth® and Network RTK.

Maximum Versatility

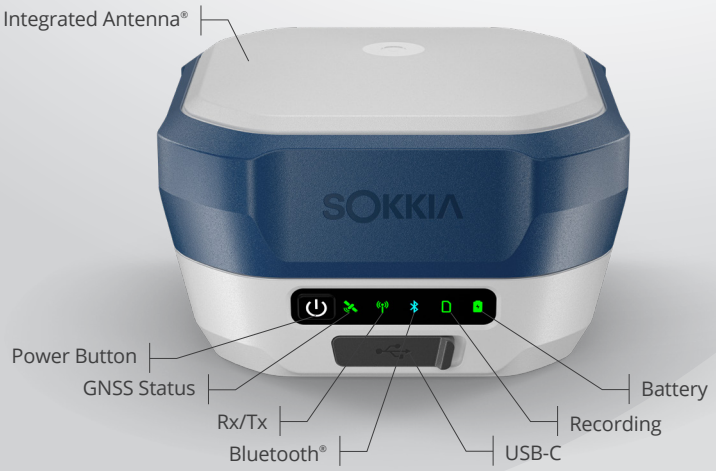
Utilizing full wireless connectivity and no voice feedback, the GRX5 enables the use of both RTK and network RTK technologies. It can be operated as both a private RTK base and RTK rover using the internal digital UHF.

Stay in Control

The GRX5 includes built-in internal Bluetooth® capability that allows you to choose your field controller model and software. Whether it is a small palm-sized screen device, a larger screen handheld, or even a field laptop, the GRX5 is ready to connect.

Ready for the field

The GRX5's magnesium alloy body can handle even the toughest job site conditions. It's compact, watertight, and rugged with IP67 rated dust and water protection.



GRX5

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Specifications

GNSS TECHNOLOGIES (SIGNAL TRACKING)	
GPS	L1 C/A, L1P, L2P, L2C, L5
GLONASS	L1 C/A, L2P, L2C/A, L3
Galileo	E1, E5a, E5b, E5 AltBOC, E6
BeiDou	B1, B1C, B2, B2a, B2b, B3
IRNSS (NavIC)	L5
SBAS	L1, L5
QZSS	L1C/A, L1 C/B, L2C, L5
Channels	448 hardware channels
Tilt	Calibration-free and magnetically immune IMU
Signal integrity	GNSS interference monitoring and mitigation technology for anti-jamming and anti-spoofing
Positioning Performance	
Precision Static	H: 3 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm
Static/Fast Static*	H: 3 mm + 0.5 ppm V: 5 mm + 0.8 ppm
RTK**	H: 5 mm + 0.5 ppm V: 10 mm + 0.8 ppm
RTK, TILT Compensated	RTK + 5 mm + 0.5 mm / ° tilt Compensation up to 60°
Communications	
Internal Radio (Optional)	403-473 MHz UHF Max Transmit Power: 1 W
Cellular	Integrated 4G/LTE cellular modem
Bluetooth®	v5.3 BR/EDR and low energy long range (up to 300 m)
Wi-Fi	802.11a/b/g/n/ax 2.400 to 2.500 GHz
Ports	USB type C for power and data
Data format and memory	
Output formats	RTCM 3.1, RTCM 3.2, NMEA
Input formats	RTCM 2.x, RTCM 3.x, CMR, CMR+, TPS
Internal Memory	20 GB
Update Rate	Up to 10 Hz
Power	
Battery	Internal, non-removable, Lithium-Ion batteries
Operating time	15 h – STATIC (1 Hz data logging) 7 h – RTK BASE STATION (1 W UHF/FH) 10.5 to 13 h – RTK ROVER (UHF/FH, internal cell or long range Bluetooth)***
Hardware	
Dimensions (L x W x H)	13.9 x 13.9 x 9.7 cm (5.47 x 5.47 x 3.82 in.)
Weight	995 g (2.19 lb.)
Ingress Protection	Dust and water IP67
Vibration	MIL-STD 810G
Drop	Survive 2m pole drop on concrete surface
Operating Temperature	-40°C to 65°C (-40°F to 149°F)

* Under nominal observing conditions and strict processing methods, including use of dual frequency GPS, precise ephemerides, calm ionospheric conditions, approved antenna calibration, unobstructed visibility above 10 degrees and an observation duration of at least 3 hours (dependent on baseline length).
** Baselines <40 km
*** Operating time depends on communication method

Topcon Software

This is the simplest, most effective software suite for the geomatics and survey professional.

Topcon Field

Welcome to the quickest and easiest way to collect and layout points in the field. Topcon Field's user friendly interface and simple but powerful controls help you work faster and more precisely.

- Graphical interface available on Windows® and Android/iOS tablets
- Collect field measurements
- Control GNSS and robotic systems from Sokkia
- CAD in the field functionality
- Export point files to 3rd party software

Topcon Office

Process field measurement data from a variety of sensors in the same job file.

By combining data from multiple sensors, you get a more complete view of the project than you would with separate static files from each sensor.

- Process raw data from field measurements
- Work with total station, digital level, and GNSS receiver data
- GNSS post-processing
- 3D CAD view (optional module)
- Road design tools (optional module)

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