

SOKKIA

GRX1

GNSS Receiver

Software

Spectrum Survey series software is tailored to use with Sokkia GPS/GNSS receivers in both field and office works.

Spectrum Survey Field

Fast, powerful, yet user-friendly data collection software.

Leveraging a large graphical display, the Spectrum Survey Field provides easy-to-use intuitive user interface that minimizes the learning curve.

Maximizes the productivity in all kinds of GPS/GNSS surveying, construction setting out and GIS data collection tasks.

Easily handles multiple surveying instruments using individual configuration files stored for each instrument.

Superior data management and exchange capability in numerous file formats.

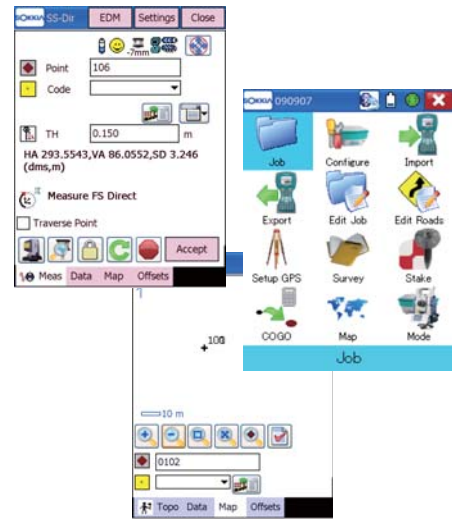
Spectrum Survey Office

Comprehensive GPS/GNSS office software.

The Spectrum Survey Office offers all necessary functionality for GPS/GNSS surveying.

Tool bars, reports and views can be easily customized for your specific needs.

Data export in all industry-standard formats.



GRX1 Specifications

Tracking capability	
Number of channels*1	72 channels
Tracked signals*1	GPS L1 CA, L1/L2 P-code, L2C GLONASS L1/L2 CA, L1/L2 P-code SBAS WAAS, EGNOS, MSAS
Positioning accuracy*2	
Static	L1+L2 H: 3mm + 0.5ppm V: 5mm + 0.5ppm L1 only H: 3mm + 0.8ppm V: 4mm + 1ppm
Fast static	L1+L2 H: 3mm + 0.5ppm V: 5mm + 0.5ppm
Kinematic	L1+L2 H: 10mm + 1ppm V: 15mm + 1ppm
RTK	L1+L2 H: 10mm + 1ppm V: 15mm + 1ppm
DGPS	<0.5m
User interface	
Operation	Single-button operation for power, receiver reset, memory initialization
Display panel	22 LED status indicators
Voice navigation	Multi-lingual voice messages for receiver status information
Data management	
Memory	SD/SDHC card (FAT16/32 formats)
Data format	RTCM SC104 2.1/2.2/2.3/3.0/3.1, CMR, CMR+, NMEA, TPS
Update/output rate*3	1Hz, 5Hz, 10Hz, 20Hz
Communication port	RS-232C (4,800 to 115,200bps)
Wireless communication	
Bluetooth modem	V.1.1, Class 1, 115,200bps
Digital UHF modem*4	Internal, receiver (RX) and transmitter (TX), 410 to 470MHz
GSM/GPRS modem*4	Internal
Environmental	
Dust and water protection	IP67 (IEC 60529:2001) at closing all connector caps. Protected against temporary immersion up to 1m (3.3ft.) depth.
Shock	2m (6.56ft.) pole drop
Operating temperature	GRX1 receiver -40 to +65°C (-40 to +149°F) BDC58 battery -20 to +65°C (-4 to +149°F) UHF/GSM modems -20 to +55°C (-4 to +131°F)
Storage temperature	-45 to +70°C (-49 to +158°F)
Humidity	100%, condensing
Physical	
Enclosure	Magnesium alloy housing
Size	Dia. 184 x H 95mm (dia. 7.24 x H 3.74 in.)
Weight	GRX1 receiver 1.1kg (2.43 lb.) BDC58 battery 195g (6.9 oz.) Internal modems 115 to 230g (4.1 to 8.2 oz.), depending on modem specifications
Power supply	
Standard battery BDC58	Detachable, Li-ion rechargeable battery, 7.2V, 4.3Ah
Operating time at 20°C (68°F)	>7.5 hours in static mode w/Bluetooth connection
Charger CDC68	Recharging time Approx. 4 hours at 25°C (77°F) Input voltage 100 to 240V AC (50/60Hz)*5
External power	Input voltage 6.7 to 18V DC

*1 Number of channels and tracked signals vary according to receiver configurations.

*2 Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, survey procedures and data quality.

*3 1Hz standard. Higher rates available as options.

*4 Internal "UHF modem" or "UHF+GSM modem" available as factory options.

*5 Use with an appropriate AC power cable.

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Ultimate in Versatility

Scalable - Affordable - Triple Wireless Technologies

