GIR1450 Specifications

Receiver Specifications	
Internal GPS Engine	
Frequency	1.575 GHz (L1)
Horizontal Accuracy	<1m (RMS)
Channels	12 x L1 with 2 internal DGPS corrections
Internal L-Band Sensor	
Frequency	1.525 to 1.585 GHz
Tuning Mode	Manual or Automatic
Sensitivity	120 dBm for <10-3 BER
Internal Beacon Sensor	
Frequency	283.5 to 525.0 kHz
Cold Start Time	<1 min (typical)
Reacquisition Time	2 sec (typical)
Channels	2
Physical	
Weight	.54 kg (1.2 lb)
Size	160 mm L x 114 mm W x 45 mm H (6.3″ L x 4.5″ W x 1.8″ H)
Environmental	
Operating Temperature	-32°C to +74°C (-25°F to +165°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	95% non-condensing
Shock	EP 455
EMC	FCC Part 15, Subpart B, Class B CISPR 22
Power Requirements	
Power Input	8 to 36 VDC
Power Consumption	3W
Current Consumption	< 250 mA @ 12 VDC
Batteries	12v SLA battery sticks (x2)
Operating Time	Up to 12 hours

External Ports	2 x RS232, 1x power, 1x antenna
Standard Input/Output formats	RTCM SC-104, NMEA 0183

Antenna Specifications	
Physical	
Weight	.5 kg (1.1 lb)
Size (d x h)	14.1 cm x 12.7 cm (5.6 in x 5.0 in)
Environmental	
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	100% condensing
Power Requirements	
Power Input	+5 to +15 VDC
Input Current	50 to 60 mA
IMap Minimum Specifications	
Operating System	Microsoft Windows® CE, CE.NET, Windows® Mobile 5.0
Memory	32MB RAM
Ports	1x RS232
Display	240 x 320 resolution (portrait or landscape)
IMap Recommended Specifications	
Operating System	Microsoft Windows® CE, CE.NET, Windows® Mobile 5.0
Memory	64MB RAM
Ports	1x RS232, *Bluetooth*
Display	240 x 320 resolution (portrait or landscape)

SOKKIA Worldwide

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SOKKIA

GIR1450

L1 DGPS System

HERITAGE | QUALITY | SUPPORT | VALUE

GIR1450

L1 DGPS System

SOKKIA's GIR1450 is the ideal system for mining, navigational, agricultural and hydrographic applications. At the center of the system is a high-performance, 12-channel, L1 DGPS receiver delivering sub-meter accuracy. The receiver also offers beacon, OmniSTAR, WAAS/EGNOS and other SBAS technologies for differential corrections and reliable positioning. The GIR1450 is lightweight and easy to set up and use, and it is rugged enough for your most demanding field work.

Rugged. Reliable. Versatile.

GIR1450 Features

Reliable accuracy.

- Delivers consistent sub-meter accuracy
- Features beacon, OmniSTAR, WAAS/EGNOS and other SBAS technologies for differential corrections and reliable positioning
- Post-processing software options available for further refinement of positions

Lightweight, rugged design.

- Receiver weighs just .54 kg (1.2 lb); antenna weighs only .5 kg (1.1 lb)
- Receiver can withstand a drop of 2.0 m (6.6 ft)

Reliable power.

- Rechargeable batteries provide enough power for a full day of uninterrupted surveying

Easy to use.

- Convenient LED indicators provide information for power, GPS lock and DGPS lock
- Functional LCD panel allows you to navigate menus and configure receiver settings without using external software

Versatile performance.

- Receiver can be placed conveniently in the ergonomic backpack or mounted inside the cab for navigational applications
- Optional *Bluetooth*® adaptor available for cable-free surveying convenience

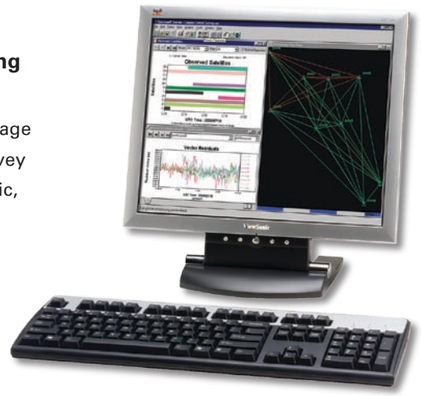
Data Collection

IMap data collection software.

- Provides comprehensive mapping tools
- Simple interface and intuitive workflow
- Offers up-to-the-second positional information
- Easy-to-interpret graphical displays

Spectrum Survey Suite post-processing software. (optional software/not included)

- Complete Windows®-based software package
- Supports commonly used methods of survey data collection, including static, rapid-static, kinematic and stop-and-go
- Provides all the tools you need to manage your project – from planning to processing, adjusting and analyzing GPS surveying data



The GIR1450 System

- 12-channel, L1 DGPS receiver featuring internal beacon, WAAS/EGNOS, OmniSTAR and other SBAS technologies for differential corrections
- Microsoft Windows® CE data collector with IMap data collection software
- GIR1450 antenna
- Ergonomic backpack

The SOKKIA Difference

SOKKIA has been developing advanced products for surveying professionals around the world since 1920. We are very proud of our **heritage**. It is our mission to provide you with products of the highest **quality** so you can do the job right the first time – every time. And we **support** our products long after the sale is complete. With that kind of **value**, it is no wonder surveyors everywhere count on SOKKIA for their most important projects.

SOKKIA