

Stratus

L1 Integrated GPS System



Stratus Integrated L1 GPS Receiver

SOKKIA's Stratus is a fully integrated L1, 12-channel GPS receiver capable of both static and kinematic surveys. By integrating the receiver, antenna, memory and batteries in one lightweight package, Stratus offers cable-free operation. The rugged, sealed enclosure ensures durability in the harshest of environments.

Integrated Design

Fully integrated, single-frequency GPS receiver, antenna, memory and batteries.

Simple Operation

Single-button operation with LED indicators for battery life, satellite tracking status, remaining memory and integer fixed occupation time.

Lightweight & Rugged

Weighs just 0.80 kg (1.75 lb) and can withstand a drop of 2.2 m (7.2 ft).

Internal Memory

4 MB of internal memory provides 55 hours at 10 sec recording interval (8 satellites) and 11 hours at 2 sec recording interval (8 satellites).

Reliable Power

Ability to hot swap batteries for continuous surveying.

Wireless Communication

Infrared (IR) communication provides cable-free operation.







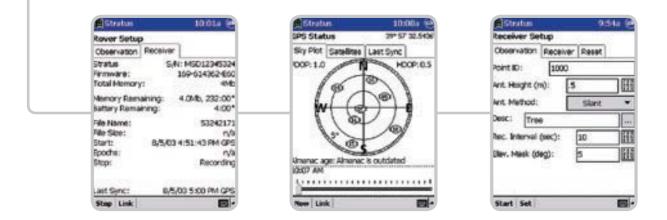
Stratus Controller Data Collection Software

The Stratus Controller software provides a user-friendly solution for monitoring and managing your Stratus receiver data. Install Stratus Controller software (Windows Pocket PC platform) on the HP iPAQ and enjoy versatility in the field and office.

Controller Features

- Shorten your workload and eliminate the need to key in information at the office by storing site information in the field, such as point identification, feature codes and antenna height.
- Eliminate the need for cables in the field with an Infrared (IR) interface that communicates between the Stratus controller and the receiver.
- Easily determine your data quality and view detailed statistics on the GPS receiver's operation and status.
- Install Windows CE software on the HP iPAQ for optimal performance.



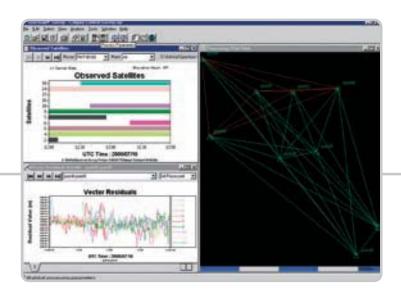


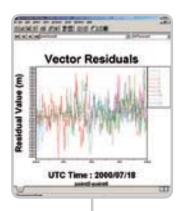
Spectrum Survey Post-Processing Software

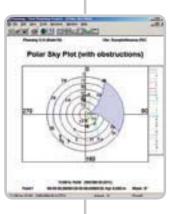
SOKKIA's Spectrum Survey is a comprehensive, easy-to-use Windows-based software package that supports all phases of GPS/survey operations. Spectrum Survey Suite combines Spectrum Survey and Planning into one software package. This package provides all of the tools you need to successfully manage your project, from planning and processing to adjusting and analyzing GPS survey data.

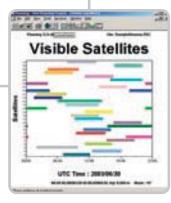
Spectrum Survey Features

- Process single and dual-frequency GPS data (code and carrier)
- An integrated GPS data processing and network adjustment environment makes it easy to process and adjust data in a few simple steps.
- Display data in geographic, state plane, UTM or user-defined coordinates. Compute and export data in ground coordinates.
- View and edit baselines before processing, either through menus or through the graphical interface.
- Supports commonly used methods of survey data collection, including static, rapid-static, kinematic and stop-and-go.
- Compatible with SOKKIA GPS receivers, such as Radian IS, Stratus, and GSR2600, along with other proprietary data formats.









Stratus Integrated L1 GPS System

The Stratus system, coupled with Spectrum Survey and Stratus Controller software, efficiently provides high-accuracy results. The system's single-user capability saves you time and money. With a variety of system configurations available, the Stratus system is the solution that fits your environment and budget.

Stratus System

- Lightweight, fully integrated GPS receiver, antenna, memory and batteries in one enclosure
- Windows® CE data collector and Stratus Controller software
- Spectrum Survey Suite V3 processing and adjustment software
- Heavy-duty, field-ready soft case

Static & Kinematic Applications

- As-built mapping
- Boundary surveys
- Control densification
- Establish station pairs
- Map utilities and natural resources
- Position aerial photo panels
- Road construction surveys
- Section corner surveys
- Topographic mapping





Position Accuracy ^{1,3}				
Static	5.0 mm + 1 ppm (horizontal)	10.0 mm +2 ppm (vertical)		
Kinematic, Stop-and Go ²	12.0 mm + 2.5 ppm (horizontal)	15.0 mm + 2.5 ppm (vertical)		
Channels	12 x L1 with full code and carrie	r		
Time to first fix				
Cold Start	2 min			
Warm Start	40 sec			
Hot Start	15 sec			
Signal Reacquisition	1 sec	1 sec		
Data Rate	1 Hz			
Interface				
Operation	Single-button operation for pow	er, receiver reset and clear memory		
Display	LED display status indicators			
Status Indicators		Power, battery life, satellites tracked, available memory and occupation timer		
Memory	4 MB Internal			
Memory Life	55 hours at 10 s (8 satellites); 11	55 hours at 10 s (8 satellites); 11 hours at 2 s (8 satellites)		
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Integrated Antenna	Internal L1 GPS antenna			
Physical				
Weight (with batteries)	0.80 kg	1.75 lb		
Weight (without batteries)	0.62 kg	1.38 lb		
Size (d x h)	15.5 cm x 12.5 cm	6.0 in x 5.0 in		
Environmental				
Operating Temperature	-20° C to +65° C	-4° F to +149° F		
With external batteries	-40° C to +65° C	-40° F to +149° F		
Storage Temperature	-40° C to +85° C	-40° F to +185° F		
Water Resistance	IPX4	- 40 1 to +100 1		
Shock ⁴	2.2 m pole drop; 1.0 m stand ald	one 7.2 ft pole drop; 3.3 ft drop stan	d alone	
Communications and Serial Port Infrared communications link (tra				
Power Requirements	Cable communications link (tran	sfer rate up to 115,200 baud rate)		
•	Internal 7.0 VDC External 0 to 1	CVDC		
Power Input Batteries	Internal 7.2 VDC, External 8 to 16 VDC			
	2 x BDC46 rechargeable batteries 30 hours at -20° C 30 hours at -4° F			
Operating Time	30 hours at -20° C 30 hours at -4° F Hot swap between batteries without interrupting receiver operation			
Swapping				
	1. Accuracy depends on the number of satellites used, obstructions, satellite geomet (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, s			
Processor	400 MHz, Intel X-scale, 32 bit RISC		procedures and data quality. Numbers shown are for baselines not exceeding 10 km. 2. Kinematic and Stop-and-Go surveys require an initialization. 3. 95% confidence level.	
Memory	64 MB RAM, 12 MB ROM			
Battery Type	950 mAH Lithium Rechargeable	3. 95% confidence level. Design and specifications are subject to chan	ge without notice.	
Battery Life	Up to 12 hours		g	
Charging Time	Up to 4 hours			
Weight	0.14 kg 5.1 oz	SOKKIA Worldwide N	etwork	
Operating Temperature	0° C to +40° C +32° F to +104° F		+61-2-9638-240	
Minimum Controll	er Specifications	AUSTRALIA	www.sokkia.com.a	
Operating System	Pocket PC 2003		+86-21-6354184	
Processor	ARM	CHINA	www.sokkia.com.d	
Memory	16 MB RAM			
Communication	IrDA Port	EUROPE	+31-(0)36-532288	
Resolution	240 x 320		www.sokkia.n	

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