SOKKIA

STRATUS

Integrated L1 GPS System

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It's compact and lightweight, yet rugged and reliable. Who says you can't have it all in one GPS system? SOKKIA's Stratus Integrated L1 GPS System delivers all that and more.

Stratus integrates an L1 GPS receiver, antenna, memory and batteries in one sealed enclosure. Everything fits right on the pole for convenient cable-free operation. And it weighs only 0.8 kg (1.8 lb) with batteries. But what you'll appreciate most about the Stratus is how easy it is to set up and use. Just take it out of the box, turn it on, and you're ready to go.

For all of your high-accuracy static and kinematic applications, Stratus is your solution.

Simple. Aff

System Features

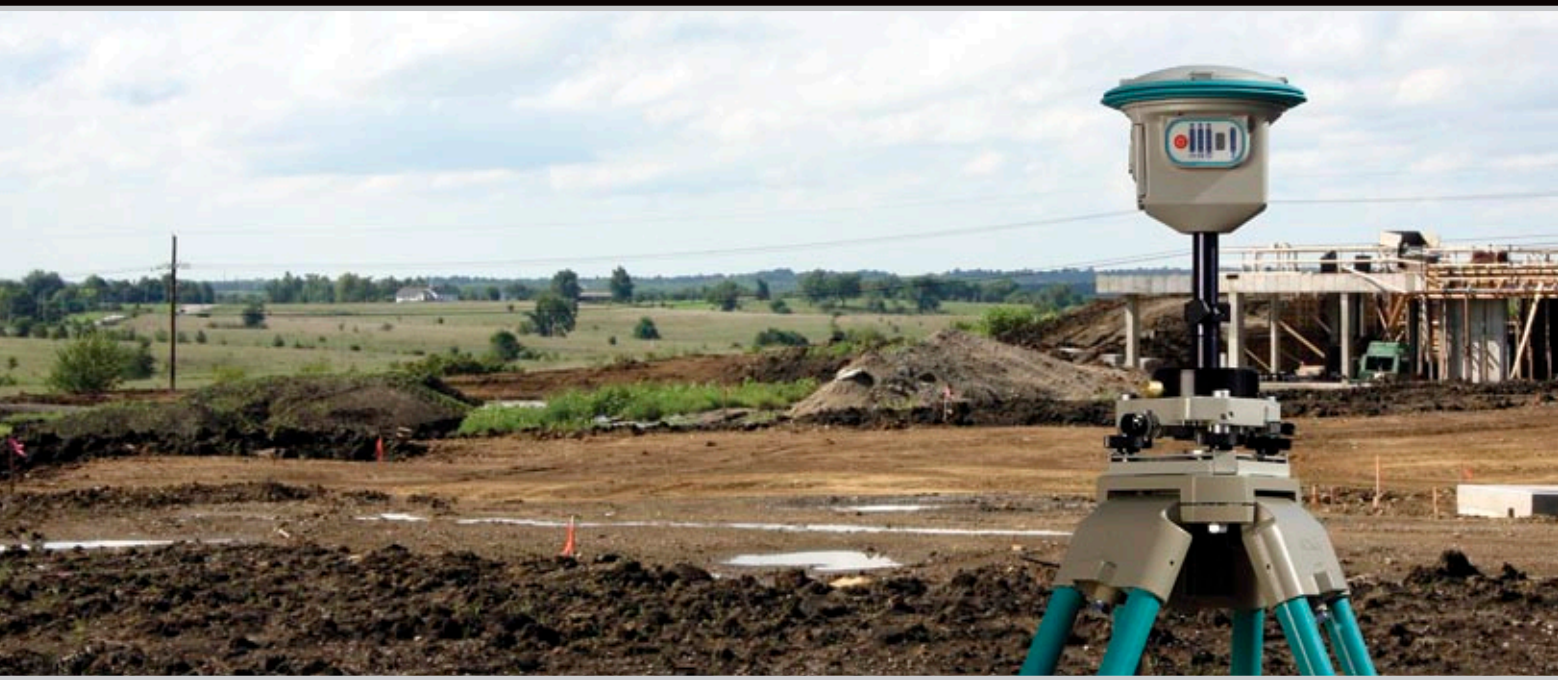
Fully Integrated Design.
Stratus combines an L1, 12-channel GPS receiver, antenna, memory and batteries in one lightweight package for all-on-the-pole convenience.

Wireless Communication.
Infrared communication provides cable-free surveying.

Versatile Performance.
Utilize Stratus to perform all of your static and kinematic surveying applications. Configure as a base or rover.

Simple to Operate.
Designed to work right out of the box. Offers single-button operation with LED indicators for battery life, satellite tracking status, remaining memory and integer-fixed occupation time.

Reliable Power and Memory.
Offers the ability to hot swap batteries for continuous surveying with 4 MB of internal memory standard.



ordable. Reliable.

System Components

- Fully integrated GPS receiver, antenna, memory and batteries in one rugged enclosure
- Microsoft Windows® CE data collector and Stratus Controller Software
- Spectrum Survey Suite post-processing and adjustment software
- Heavy-duty, field-ready soft case

Stratus Controller — Data Collection Software

Stratus Controller software provides a user-friendly solution for monitoring and managing your Stratus receiver data. Infrared (IR) interface eliminates the need for cables in the field as it provides communication between the data collector and the receiver. Stratus Controller is compatible with Pocket PC PDAs.

Spectrum Survey — Post-Processing Software

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 package, providing all of the tools you need to successfully manage your project — from planning to processing, adjusting and analyzing GPS survey data.

Order your complete Stratus system today!
Visit Sokkia on the web for more information or to locate your nearest distributor.

Stratus Specifications

Position Accuracy[1]		
Static[2]	5.0 mm + 1 ppm (horizontal)	10.0 mm +2 ppm (vertical)
Kinematic, Stop-and Go[3]	12.0 mm + 2.5 ppm (horizontal)	15.0 mm + 2.5 ppm (vertical)
Channels	12 x L1 with full code and carrier	
Time To First Fix		
Cold Start	2 min	
Warm Start	40 sec	
Hot Start	15 sec	
Signal Reacquisition	1 sec	
Data Rate	1 Hz	
Interface		
Operation	Single-button operation for power, 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 hours at 2 s (8 satellites)	
Integrated Antenna	Internal L1 GPS antenna	
Physical		
Weight (with batteries)	0.8 kg	1.8 lb
Weight (without batteries)	0.6 kg	1.4 lb
Size (d x h)	15.5 cm x 12.5 cm	6.0 in x 5.0 in
Environmental		
Operating Temperature	-20º C to +65º C	-4º F to +149º F
With External Batteries	-40º C to +65º C	-40º F to +149º F
Storage Temperature	-40º C to +85º C	-40º F to +185º F
Water Resistance	IPX4	
Shock[4]	2.2 m pole drop; 1.0 m stand alone	7.2 ft pole drop; 3.3 ft drop stand alone
Communications and Serial Port	Infrared communications link (transfer rate up to 57,600 baud rate)	
Power Requirements	Cable communications link (transfer rate up to 115,200 baud rate)	
Power Input	Internal 7.2 VDC, External 8 to 16 VDC	
Batteries	2 x BDC46 rechargeable batteries	
Operating Time	30 hours at -20º C	30 hours at -4º F
Swapping	Hot swap between batteries without interrupting receiver operation	

HP iPAQ Controller (Recommended)

Processor	400 MHz, Intel X-scale, 32 bit RISC	
Memory	64 MB RAM, 12 MB ROM	
Battery Type	950 mAH Lithium Rechargeable	
Battery Life	Up to 12 hours	
Charging Time	Up to 4 hours	
Weight	0.1 kg	5.1 oz
Operating Temperature	0º C to +40º C	+32º F to +104º F

Minimum Controller Specifications

Operating System	Pocket PC 2003
Processor	ARM
Memory	16 MB RAM
Communication	IrDA Port
Resolution	240 x 320

1. 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. Numbers shown are for baselines not exceeding 10 km.
2. 95% confidence level.
3. Kinematic and Stop-and-Go surveys require an initialization.
4. Shock specifications based on receiver without cables attached.

Design and specifications are subject to change without notice.

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