

STRATUS Specifications

Position Accuracy ¹		
Static ²	H: 5.0 mm + 1.0 ppm	V: 10.0 mm + 2.0 ppm
Kinematic, Stop-and-Go ³	H: 12.0 mm + 2.5 ppm	V: 15.0 mm + 2.5 ppm
Tracking Capability		
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	-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	
Shock ⁴	2.2 m pole drop; 1.0 m stand alone	7.2 ft pole drop; 3.3 ft 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 - 16 VDC	
Batteries	2 x BDC46A rechargeable batteries	
Operating Time	30 hours at -20°C	30 hours at -4°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	0°C to +40°C	+32°F to +104°F
Minimum Controller Specifications		
Operating System	Pocket PC 2003	
Processor	ARM	
Memory	16 MB RAM	
Communication	IrDA Port	
Resolution	240 x 320	
<ol style="list-style-type: none"> 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. 		

SOKKIA

STRATUS



Integrated L1 GPS System

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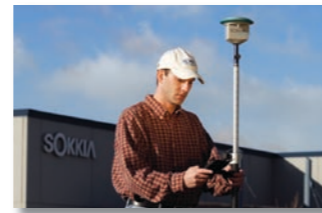
STRATUS

Integrated L1 GPS System

Stratus is the ideal solution for all of your static and kinematic surveying applications. It is compact and lightweight, yet rugged and reliable. The system includes an L1 GPS receiver, antenna, memory and batteries – all in one compact enclosure. The receiver is cable free and fits conveniently on the pole or tripod. And Stratus is so easy to set up and operate. Just turn it on and you are ready to start surveying.



Simple. Affordable. Reliable.



STRATUS Features

Compact, integrated design.

- L1, 12-channel GPS receiver, antenna, memory and batteries in one sealed enclosure
- Weighs just 0.8 kg (1.8 lb) with batteries

Wireless communication.

- Infrared communication offers cable-free surveying experience

Simple operation.

- Easy single-button operation
- LED indicators for battery life, satellite tracking status, remaining memory and integer-fixed occupation time
- Convenient base and rover setup

Reliable power and memory.

- Hot swap batteries for continuous surveying
- 4 MB of internal memory standard

Versatile performance.

- Ideal for a variety of static and kinematic applications

Accurate measurement.

- Achieve centimeter-level positioning for control and boundary surveying applications

The STRATUS System

- Integrated L1 GPS receiver, antenna, memory and batteries in one compact enclosure
- Microsoft Windows® CE data collector
- Stratus Controller software
- Spectrum Survey Suite post-processing and adjustment software
- Heavy-duty field case



Data Collection

Stratus Controller data collection software.



- Infrared interface provides communication between the data collector and receiver – no cables required
- Monitor and manage your receiver data
- Compatible with Pocket PC PDAs (HP iPAQ recommended)

Spectrum Survey Suite post-processing software.

- 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 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.

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