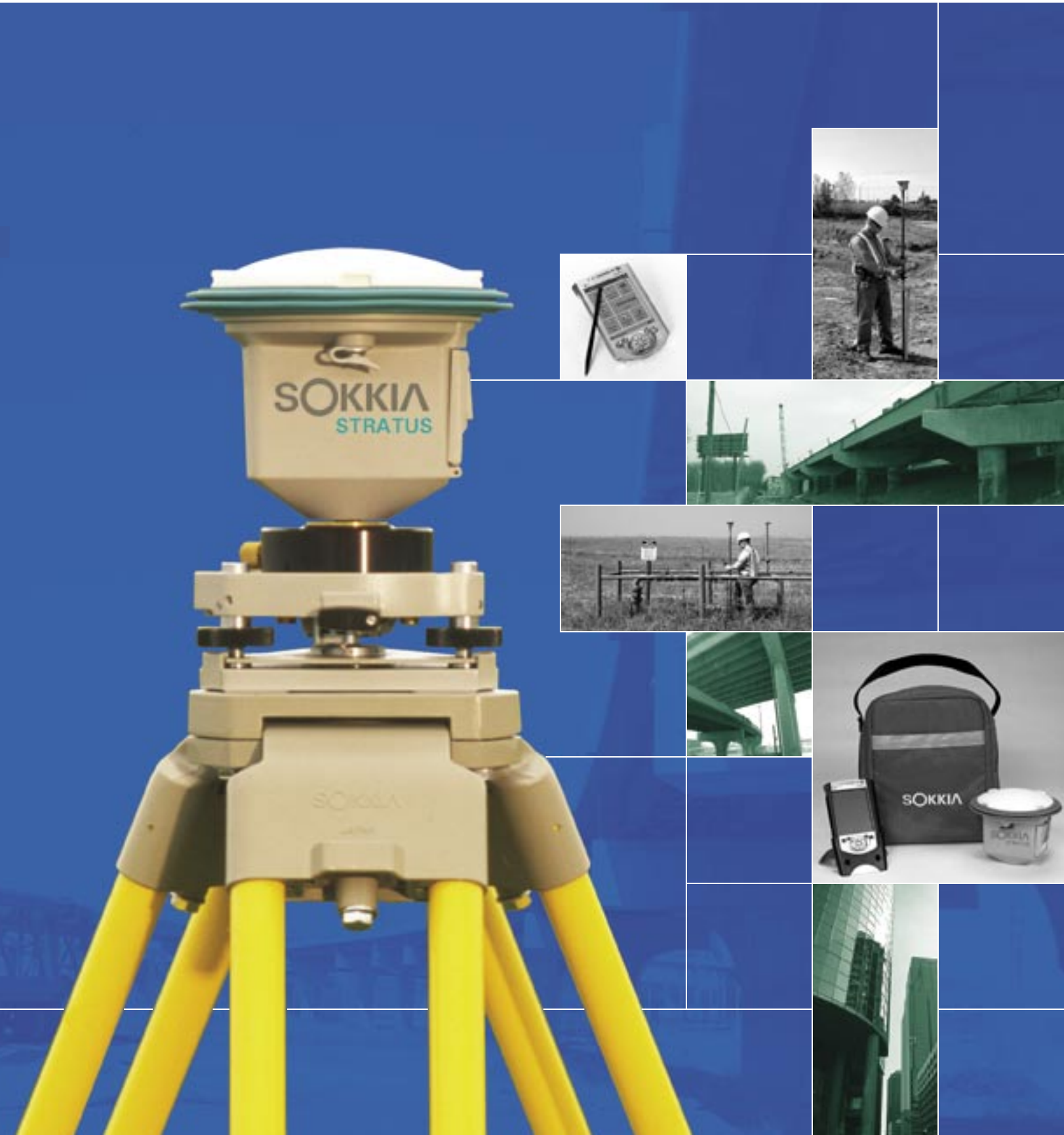
SOKKIA

Stratus

High-accuracy GPS Systems



The Stratus System

Easy operation through the entire survey. Stratus is designed to let you focus on what's really important — your fieldwork. Featuring a fully-integrated GPS receiver, antenna and battery in one complete system, Sokkia's Stratus is a lightweight, yet powerful tool that is the link between you and any job. Its rugged, sealed enclosure is designed to operate in harsh environments. With Sokkia's Stratus system, the power is in your hands — from start to finish.

- Lightweight, fully-integrated GPS receiver, antenna and battery power that is easy to use in the field, on a tripod, tribach or range pole.
- The Stratus controller features Windows® CE software that provides versatility in the field and in the office.
- Spectrum Survey post-processing software yields precise positioning results quickly and easily.

Stratus Controller Software

The Stratus controller uses Windows® CE-based software — the standard in PC platforms. Windows® CE software allows you to install and use the Stratus controller software on a variety of Windows® CE platforms and Pocket PC devices.

- Shorten your workload and eliminate the need to key in information at the office by storing site information, such as point identification, description and antenna height in the field.
- Easily determine the quality of your data and view detailed statistics on GPS receiver operation and data collection status.
- Eliminate the need for cables in the field with an Infrared (IR) interface that communicates between the Stratus controller and the receiver.
- Increase your freedom with Windows® CE software that is compatible with a variety of PC platforms, including the Compaq iPAQ, Sokkia's SDR8100 and DAP Microflex CE5320.

Spectrum Survey

Spectrum Survey is an easy-to-use software package that handles all aspects of managing and processing Stratus receiver data. User-friendly data processing, network adjustment, analysis tools and blunder detection provide you with an all-in-one tool to complete any job quickly and easily.

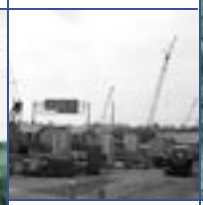
- **Prepare for the Job.** Planning helps you eliminate the guess work from data collection by predicting satellite location, geometry and visibility before leaving the office.
- **Do the Job.** An intuitive platform guides you through every step of the process, while data analysis tools allow you to determine the quality of your results. Before you know it, you will be turning details into completed jobs.
- **Finish the Job.** You can export your data to a wide range of formats, including SDR, SGL, IOB and ASCII. Spectrum Survey gives you ultimate flexibility, which translates to your bottom line.

Stratus Applications

The essence of Stratus is simplicity and accuracy. Stratus is simple to set up and operate, making it ideal for boundary and control surveys. The Stratus controller can be used during static and kinematic surveys to monitor GPS status, to control data collection and to record site and antenna information.

- As-built Survey
- Position Aerial Panels
- Property Corner Survey
- Topographic Survey





Stratus Receiver

Dependable Performance in One Complete Package. Stratus is a powerful receiver with large on-board memory that incorporates a survey-grade GPS receiver, antenna and removable batteries in one compact enclosure. Its simplicity allows you to begin working quickly, which translates to your bottom line.

- **Just open the box, set up your Stratus and go.** One button operation and simple receiver interface make surveying easy — for beginners and for advanced users alike.
- **Versatile? You better believe it.** You can use the Stratus system in a wide range of survey applications, no matter if your work is static and/or kinematic.
- **From your handheld to your receiver — no strings attached.** Infrared (IR) communication with the handheld controller provides cable-free operation and eliminates confusing cable connections and time consuming setup procedures in the field.
- **Designed to work as long as you do.** Sokkia's Stratus uses standard batteries that work throughout the day. An external power and communications port are included. Additional D-Cell battery pack and power cables are also available.
- **Enough storage for any job.** The receiver stores up to 55 hours of data at a standard 10-second recording interval, or up to 11 hours at a 2-second recording interval (8 satellites).
- **Know the status — all of the time.** LED fuel-gauge displays provide reliable status information on battery life, memory capacity, satellite usage and occupation time.

Stratus Specifications

Receiver Specifications

Static Performance[1]	5 mm + 1 ppm (horizontal) 10 mm + 2 ppm (vertical)
Kinematic Performance[1,2] **(Stop-and-Go)**	12 mm + 2.5 ppm (horizontal) 15 mm + 2.5 ppm (vertical)
Dimensions (H x D)	125 mm x 155 mm (5 in x 6 in)
Weight w/o batteries	0.62 kg (1.38 lb)
Weight with batteries	0.80 kg (1.75 lb)
Memory	4 MB (internal)
Memory Life	55 hours 10 s 11 hours 2 s (8 satellites)
Battery Type	2 x BDC46 rechargeable batteries 30 hours (at 20°C)
On/Off	Single power button
Communications and Serial Port	Infrared communications link, transfer rate up to 57,600 baud rate Cable communications link, transfer rate up to 115,200 baud rate
Operating Temperature	-20°C to +65°C (-4°F to +149°F)
Operating Temperature with external batteries	-40°C to +65°C (-40°F to +149°F)
Shock	2.2 meter pole drop (7.2 feet) 1 meter pole drop stand alone (3.3 feet)
Channels	12 parallel, L1 C/A code and full carrier
Time to first fix	45 seconds
Warm Start	15 seconds

Minimum Controller Specifications

Operating System	Pocket PC
Processor	ARM, MIPS or SH3 (100 MHz, 32 bit RISC processor)
Memory	16 MB RAM
Communication	Port IrDA
Resolution	240 x 320

iPAQ Specifications

Sokkia recommends the Compaq iPAQ controller for Stratus

Processor	206 MHz, Intel StrongARM, 32 bit RISC processor
Memory	24 MB RAM, 12 MB ROM
Communications	IRDA port, USB port, RS-232 port
Battery Type	950 MAh Lithium rechargeable
Battery Life	Up to 12 hours
Weight	0.18 kg (6.3 oz.)
Operating Temperature	0°C to +40°C (+32°F to +104°F)

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.

2. Kinematic and Stop-and-Go surveys require an initialization.

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Printed in the U.S.A

790-0-0024A