

SOKKIA

Axis Axis³

Complete GIS/Mapping Systems



The Axis³ System

Just open the box and go. Axis³ is a complete GIS/mapping and data acquisition system that can receive three GPS corrections and provide accurate, real-time positioning for GIS data collection – virtually anywhere around the world. The compact, light-weight, yet rugged system combines an easy-to-use system with valuable mapping and database functionality, making it the solution to all of your GIS/data collection needs. With the Axis³, control is your middle name.

- 12-channel, L1 DGPS receiver with beacon, L-Band and WAAS differential corrections
- Integrated GPS, beacon and satellite correction antenna
- Pocket PC (Window's® CE) data collector with software
- Ergonomic hip pack



Consider it done

The Axis³ Receiver

Axis³ is a high-performance 12-channel receiver with three different types real-time corrections to meet the unique challenges of your job. Whether you need beacon correctional data or satellite-based correctional data (L-band or WAAS) to complete your job, Axis³ provides you with the tools to accomplish any task.

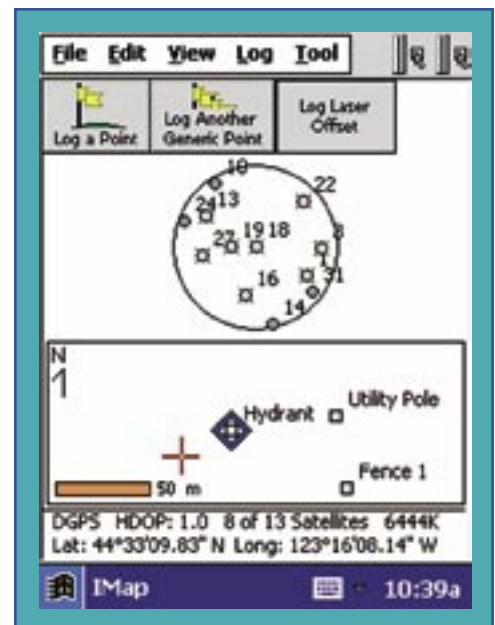


- **Room for everything and the kitchen sink.** Sokkia's Axis³ features a 12-channel, L1 DGPS receiver that has an internal beacon receiver that uses satellite corrections (L-band and WAAS) to provide you with reliable and accurate positioning information for GIS/mapping and data collection.
- **The strong, intelligent type.** Because the Axis³ system can use three different types of internal corrections in one receiver and antenna, there are fewer cables to connect, eliminating the need for external differential receivers or antennas.
- **Designed to work as long as you do.** With enough battery life and internal memory to last an entire day, Sokkia's Axis³ allows you to easily meet the challenge of any job.

IMap Software

IMap consists of IMap data collection software, a Windows® CE data collector and IMap PC – an optional office software suite and companion to IMap. IMap data collection software works with a variety of industry-standard Windows® CE operating systems, while IMap PC works within the familiar Windows® environment. IMap provides up-to-the-second positional information, including easy-to-interpret graphical status displays and quality indicators to ensure accurate data collection and dependable navigation. It's hard to find a job that can't be handled. IMap is the link between you and any job.

- **Prepare for the Job.** Before you go out to the field, use Sokkia's Planning software to determine the best time to collect GPS data. Planning also eliminates the guess-work from data collection.
- **Do the Job.** Use IMap in the field to get up-to-the-second positional information that you need – when you need it. IMap supports several standard data formats for vector maps and photo images, enabling you to graphically view your data in the field. Before you know it, you will be turning details into finished projects.
- **Finish the Job.** Finishing the job means exporting your data to industry standard formats. Use IMap PC (sold separately) as an optional office software package to extend IMap's functionality. IMap Office includes way point file creation, geodetic converter, image trimming, and a method for creating a localized coordinate system. With IMap Office, you can create custom feature files, custom zone files, way point files, and transfer data between your data collector and PC. You can also view and edit collected data, basemaps and raster images and export data in several GIS and CAD formats.



Go anywhere

Electronic Field Books

Roughing it shouldn't include your equipment. That's why IMap is designed to work with a wide range of handheld devices. IMap is available on an industry-standard iPAQ, a Pocket PC Windows® CE data collector. IMap is compatible with a wide range of data collectors running the Pocket PC operating system, including commercially available personal data assistants (PDA).



- **Designed to meet the challenges of your job and your budget.** Sokkia's GIS system works on all standard Pocket PC (Windows® CE) data collectors, including iPAQ – a Pocket PC data collector that offers a reflective, liquid crystal display and color screen to provide increased readability even in bright light.
- **To be more versatile, you would have to design it yourself.** The SDR8100 is compatible with a wide range of software, including G2 and Midas from Sokkia.
- **The strong, intelligent type.** Sokkia's DAP Microflex CE5320 is a solid, ergonomic design that handles a variety of Sokkia software with Windows® CE. It also provides the freedom to run on other CE application software, including Midas from Sokkia.

Applications

Data acquisition involves two objectives – obtaining an accurate position and collecting the attributes for that position. The Axis³ system is designed to be versatile and affordable to provide you with real-time, submeter results without having to purchase additional hardware, such as a differential correction receiver or a second GPS receiver for post-processing tasks. Combine Axis³ with IMap and you can meet the challenge of any job.

- Accident reconstruction
- Agriculture, forestry and condition surveys
- Archeology site surveys
- Emergency management
- Irrigation surveys
- Landscape surveys
- Resource mapping
- Utility Mapping
- Wetland delineation

Axis System

Combining a 12-channel, L1 DGPS receiver with an internal dual-channel beacon receiver, the Axis receiver calculates differentially corrected positions resulting in horizontal submeter accuracy. Axis is designed to increase your productivity and efficiency, making it a tool that will translate to your bottom line.

- Agriculture, forestry and land use surveys
- Asset management
- Building inspection and condition surveys
- Drainage surveys
- Lighting inspection
- Traffic sign inventory



Do anything

Axis³ Specifications

Receiver Specifications

Internal GPS Engine Frequency Horizontal Accuracy Channels	1.575 GHz <1m (DRMS) 12, L1 DGPS receiver with beacon, L-band and WAAS corrections
Internal L-Band Sensor Frequency Tuning Mode Sensitivity	1525 to 1559 MHz Manual or Automatic 120 dBm for <10 ⁻³ BER
Internal Beacon Sensor Frequency Cold Start Time Reacquisition Time Channels	283.5 to 325 kHz <1 minute (typical) 2 seconds (typical) 2-channels
Physical Characters Receiver Weight Receiver Size	0.7 kg (1.68 lb) 51mmH x 125mmW x 190mm L (2.0"H x 4.9"W x 7.4"D)
Antenna Antenna Weight Antenna Size Operating Temperature Operating Temperature with batteries Storage Temperature Humidity Shock	0.76 kg (1.68 lb) 129mm dia. x 125mm 98mm H (5.1in dia. x 3.9in H) -32°C to +74°C (-26°F to +165°F) -40°C to +85°C (-40°F to +185°F) -40°C to +85°C (-40°F to +185°F) 95% non-condensing 2m pole drop/1m stand alone
Power Requirements Power Input Power Consumption Batteries Operating Time	+9.5 to +48 Volts DC <6.5 W 950 mAh Lithium rechargeable batteries Up to 12 hours
External Ports	2 x RS232, 1 external power port, antenna port
Standard Input/Output Formats	RTCM SC-104, NMEA 0183

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iPAQ Controller Specifications

Processor	206 MHz, Intel StrongARM 32 bit RISC Processor
Memory	24 MB RAM 12 MB ROM
Mechanical Characteristics Dimensions Weight Interface Ports	13 cm x 8.3 cm x 1.6 cm (5.1 in x 3.3 in x 0.6 in) 0.18 kg (6.3 oz) 1 serial and 1 infrared
Environmental Operating Temperature	0°C to +40°C (32°F to +104°F)
Power Requirements Battery Type Battery Life	950 mAh Lithium rechargeable Up to 12 hours
Minimum Hardware Operating System Display Ports Memory	Windows® CE 2.0 210 x 320 resolution RS-232 serial port 8 MB of RAM
Recommended System Operating System Display Ports Memory	Windows® Pocket PC Color reflective thin film transistor (TFT) LCD RS-232 serial port 16 MB of RAM

All settings above are based on the CE settings for the Compaq iPAQ. IMap is compatible with a wide range of data collector platforms, including the SDR8100, DAP Microflex CE5320 and Aero products.

