

RUGGED SPS985L  
GNSS SMART  
ANTENNA ON A  
ROVER POLE



TRIMBLE SITE  
MOBILE  
RUNNING  
SCS900 SITE  
CONTROLLER  
SOFTWARE

## AFFORDABLE SOLUTIONS FOR CHECKING GRADE AND SITE MEASUREMENT

Modern construction standards require adherence to tighter specifications and immediate response to potential quality problems on the job site. In the new construction environment, grade checking and site measurement can no longer be carried out efficiently using a grade level and paper.

Contractors depend on the grade checker's work to maintain accurate progress reports, check the accuracy of construction to the 3D design, and check grade for conventional grading operations. If grade isn't checked on a timely basis, work can be delayed or errors can be introduced, resulting in costly rework.

### Designed for the Work of the Grade Checker

With an ultra-rugged Trimble® SPS985L GNSS Smart Antenna on a rover pole and a Trimble Site Mobile running SCS900 Site Controller Software, the grade checker has all of the tools necessary to stay on top of the hectic job. Trimble Site Positioning Systems and SCS900 field software were designed to simplify field workflows and data management for the grade checker, and they don't require a surveying background to operate.

The 3D site model is first prepared in the office using Business Center – HCE software and exported to the Site Mobile for use in the field. Armed with digital site data on the controller, the grade checker or site engineer can tackle any measurement task quickly, including initial site surveys to verify elevations and checking volume estimates for site, road or rail construction, mining, or landfill projects.

Once the project is underway, the Site Mobile and SPS985L rover can be used to conduct daily or periodic site measurements to check progress or stockpile volumes without waiting for a contract surveyor. Daily rover set up is fast and easy; the receiver, antenna, radio, radio antenna and battery are integrated into one housing, so there are no cables to attach and keep track of.

Grade checker functionality in SCS900 is very intuitive, displaying cut/fill as up/down icons at a particular location or over an area on the site. Using the SPS985L rover to conduct measurements also provides a more accurate real-time cut/fill record everywhere on the site, not just at intermittent points created by conventional methods. The grade checker can record layer information, calculate volume changes, and immediately take action to address any potential problems on site.

To facilitate grading operations, the grade checker can verify grade and capture as-built information, do slope staking, set out utility lines, roads or other site features. In all of these operations, SCS900 can store individual points to be used later for verification of layers and machine accuracy as well documentation of features such as retention ponds and drainage areas.

## Staying Connected in the Field

As part of the Trimble Connected Controller solution, the Trimble Site Mobile has built-in communications capabilities including a cellular phone and Wi-Fi® to keep information flowing between the grade checker, supervisor, other job crews and the office.

Design updates, measurement results or site issues documented with a geotagged picture can be forwarded to any other person who can solve the issue -- no matter where the person is working. The grade checker can transfer progress reports, on-site problems, and as-built data back to the office — making it easier for managers to make instant decisions regarding remedial work.

Using this wireless data transfer capability reduces delays and rework associated with using outdated information and syncing data only at the end of the grade checker's workday.

In addition, Trimble Remote Assistant can be used for remote support and training. If there are questions about a design file, or workers who are new and need additional coaching, Trimble Remote Assistant allows office personnel to give assistance without ever leaving their desks. Reducing troubleshooting and training delays can increase the likelihood that projects will finish on time and under budget.

## Learn More

To learn more about how Trimble Site Positioning Systems can increase the efficiency of grade checkers, please contact your SITECH® Technology Distributor or visit <http://www.trimble.com/sitepositioning>

## EQUIPMENT FOR GRADE CHECKERS:

### Trimble SPS985L GNSS Smart Antenna

The ultra-rugged Trimble SPS985L GNSS Smart Antenna is built to withstand the rugged conditions of the construction site. It offers unmatched reliability at an attractive price point for grade checkers performing precision construction site measurement tasks.

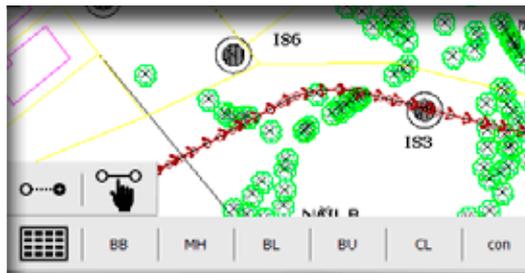
### Trimble Site Mobile Controller

The slim, lightweight and rugged Trimble Site Mobile data collector features a large, capacitive touch screen with superior sunlight readability, an integrated 8-megapixel camera and the convenience of a built-in smartphone, eliminating the need to carry multiple devices on the construction site.

### Trimble SCS900 Site Controller Software

Designed for the Trimble Site Mobile, this entry-level version of Trimble SCS900 Site Controller Software is simpler to use and learn, making it ideal for tasks such as checking a grade, slope or alignment. As your business grows, SCS900 can be upgraded for more complex uses.

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YOUR SITECH® HEAVY CIVIL CONSTRUCTION TECHNOLOGY PROVIDER

### NORTH AMERICA

Trimble Heavy Civil Construction Division  
10368 Westmoor Drive  
Westminster, Colorado 80021  
USA  
800-361-1249 (Toll Free)  
+1-937-245-5154 Phone  
+1-937-233-9441 Fax  
[www.trimble.com](http://www.trimble.com)

### EUROPE

Trimble Germany GmbH  
Am Prime Parc 11  
65479 Raunheim  
GERMANY  
+49-6142-2100-0 Phone  
+49-6142-2100-550 Fax

### ASIA-PACIFIC

Trimble Navigation  
Singapore PTE Ltd.  
80 Marine Parade Road  
#22-06, Parkway Parade  
Singapore, 449269  
SINGAPORE  
+65 6348 2212 Phone  
+65 6348 2232 Fax



[www.trimble.com](http://www.trimble.com)