

Geo-electrical Imaging with Android™ App & Wi-Fi®

The SuperSting™ with Wi-Fi® and Android™ App is a portable resistivity, induced polarization (IP), and self-potential (SP) instrument with the highest accuracy and lowest noise levels in the industry. Enhanced mobility, efficiency and data quality control are now provided by the new Android™ App. This new feature further advances the SuperSting™ instruments which are well known for high productivity, accuracy and ruggedness.



The instrument uses a built-in power transmitter and can be used for traditional vertical electrical sounding (VES), mise-a-la-masse measurements, or multi-electrode electrical tomography in 2D, 3D and 4D (time lapse). Other applications include borehole-to-borehole tomography, underwater measurements in rivers, lakes, dams and towed array investigations over water.

Why an Android™ App?

New mobility allows you to send data immediately to your processing center from the comfort of your vehicle up to 100 meters away (depending on terrain and atmospheric conditions). You no longer need to monitor imaging surveys from the instrument in the field. Using Android™ mobile 7-inch or 10-inch tablets or phones, you can check the electrodes for contact resistance and at the same time control the SuperSting™ while reviewing data in real time in both numerical and color plots

Accessories

- The SuperSting™ comes with a built-in 200 W transmitter. A series of external high-power, 5-15 kW, transmitters are available for deep IP surveys.
- AGI's EarthImager™ inversion software for 1D, 2D and 3D data processing.
- SuperSting™ Remote for resistivity, IP and SP time monitoring in remote & hard-to-access areas.
- Cables for land, borehole and underwater surveys.
- Electrode streamers for towed marine surveys.
- Stainless steel electrodes, non-polarizable electrodes and patented graphite electrodes.
- Manual single conductor cables on reel.

Features

- The 8-channel instrument (R8) is designed for large surveys when time is of the essence.
- The single-channel unit (R1) is designed for smaller surveys when speed of survey is less important.
- Used for resistivity and IP imaging in 2D, 3D and 4D.
- Borehole-to-borehole, and borehole-to-surface measurements.
- Underwater measurements in fresh and salt water.
- Deep IP mineral exploration using the external power transmitter PowerSting™ (5 - 15 kW).
- Ground water exploration.
- Geotechnical investigation for depth to bedrock, cavity detection, stratigraphy and more.

SuperSting™ with Android™ App Geo-electrical Instrument for Resistivity/IP/SP Tomography

- Gives you freedom in the field to move away from the instrument and still be in contact to control and monitor the data acquisition.
- Data quality analysis in real time.
- Review the data as a pseudo section or cross-plot of transmitter and receiver pairs.
- Review IP curves in real time.
- Android™ devices can serve as easily replaceable, upgradable display and control devices.
- Data can be emailed and backed up to cloud servers in real time for enhanced data security and faster reporting.

Key Features of the SuperSting™ Manager App

- You have all important information about each data point immediately available by touch screen.
- The electrodes for each data point are highlighted in case a survey needs to be paused and restarted to fix a loose electrode and thus save important time in the field while improving data quality.
- A floating window displays apparent resistivity, voltageRx/currentTx, voltageRx, currentTx, voltageTx, power, % error, command line number and the channels used.
- The contact resistance data is now saved in a separate file documenting this primary data quality control condition along the line.

What if my Android™ device gets lost or runs out of power?

- Your data is safe because it is saved both on the SuperSting™ instrument and on the Android™ device.
- The survey will continue locally on the SuperSting™ and can be fully controlled from the standard SuperSting™ keypad.

What happens if I get out of Wi-Fi® range?

- The Wi-Fi® max range is 100 meter depending on terrain, atmosphere etc. The SuperSting™ will continue to measure even if the Android™ device gets outside the range. As soon as the device returns within range the SuperSting™ App reconnects and continues all functions as before without losing any data.

