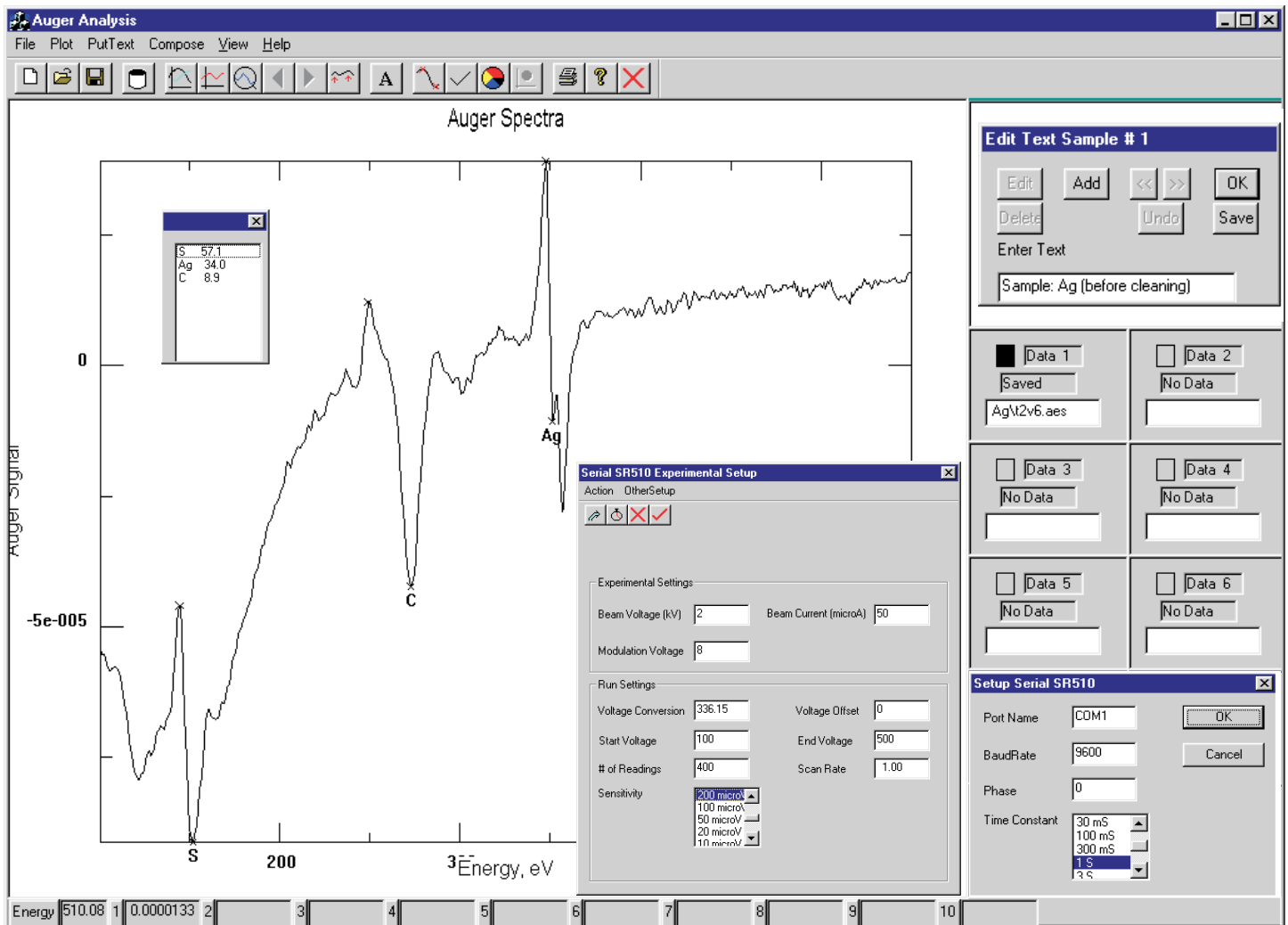


# AUGER DATA ACQUISITION SOFTWARE

Version 7.0



## FEATURES:

- Data acquisition and control of Lock-in ampl.
- Scan voltage and modulation amplitude control
- Serial port (RS 232) communication with Lock-in
- Data processing and plotting
- Data base of sensitivity factors for RFA analyzer
- Composition calculation based on the simple model



Surface - Vacuum Analytical Instruments & Technology

## **AUGER SOFTWARE SPECIFICATIONS, Version 7.0**

### **ACQUISITION:**

- data acquisition from LOA10-AES or lock-in via serial RS232 port
- control of lock-in functions: sensitivity, time constant, phase and harmonic
- control of scan voltage by setting: start voltage, end voltage and scan rate (connection with LOA10 required)
- control of modulation voltage by analog voltage setting to internal oscillator (connection to LOA10 required)

### **MEASUREMENTS AND DATA PROCESSING**

- real time plot of Auger signal vs. Energy on computer monitor
- signal numerical values monitoring
- one window plot of 10 different AES spectra
- calibration of the Energy scale
- measurements of relative values of the signal
- manual peak selection for composition calibration with verification of selection
- composition calculation based on selected peaks and data base of relative sensitivity factors
- zoom in/out of the selected section of the plot
- AES spectra printing with Lock-in and spectrometer settings
- text writing and editing on the AES spectrum

### **GENERAL**

- Windows XP/7 operating system
- automatic memorization of last operator settings
- standard export file: ASCII
- editing data base file for instrument calibration
- separate utility software to test connection of serial RS232 port

## **HARDWARE SPECIFICATIONS**

### **Lock-in Amplifier:**

- model LOA10-AES
- model SR510/810 from Stanford Research Instruments
- other lock-in on special request

### **High Voltage Ramp Generator:**

- Model LOA10-AES or LOA10 with internal modulation oscillator
- other units on special request

### **Computer minimum requirements:**

- PC, 500 MB RAM, 50 GB hard drive with standard serial communication and parallel ports and monitor resolution: 1024x768.

Shipping kit includes: Installation CD, manual, 3-mm long RS232 or USB serial communication cable.

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