



EChem Software (ES260)



EChem software running

- Most voltammetric techniques
- Windows or Macintosh
- No programming required — just plug and play
- Works with most analog potentiostats
- 16 bit resolution (minimum)
- Digital signal processing for best S/N ratios
- Multiple runs stored in one file
- Ideal for educational or research use

Description

eDAQ EChem™ software runs on Windows or Macintosh computers for the collection, display and analysis of data from electroanalytical voltammetric experiments. EChem is used with **e-corder**® data recording systems, and a potentiostat.

EChem is compatible with analog potentiostats that have an 'external input' and current and potential recorder outputs. EChem uses the **e-corder** hardware as the digital waveform generator, and data acquisition system. Even non-scanning potentiostats can often be upgraded to the full range of EChem techniques.

EChem is also fully compatible with the eDAQ Potentiostat (EA160) and the high sensitivity eDAQ Picostat (EA162).

Techniques

EChem supports the following electrochemical techniques:

- Linear (Staircase) Sweep Voltammetry (LSV)
- Normal Pulse Voltammetry (NPV)
- Square Wave Voltammetry (SWV)
- Differential Pulse Voltammetry (DPV)
- Cyclic (Staircase) Voltammetry (CV)
- Differential Pulse Amperometry (DPA)

All voltammetric techniques are also supported in stripping mode. Chronoamperometric/coulometric/potentiometric techniques are supported by the standard **e-corder** Chart and Scope software.

EChem also features a Multi Pulse Voltammetry technique where you can design a potential waveform using a staircase ramp with up to two pulses per step. Experiment with new techniques such as Cyclic Square Wave Voltammetry!

GLP

EChem is designed to help you with good laboratory practice:

- All runs are date and time stamped.
- Parameters used for any run can be recalled.
- Store sample preparation notes, standard addition concentrations, and general observations in the data file.
- Data is saved to hard disk after every run in 'autosave' mode, and can be recovered in the event of a power outage.
- Up to 999 runs can be stored in the one data file.
- Transfer files between Windows and Macintosh computers.



