



## EChem Startup System with High Bandwidth Potentiostat (Model ER7163)



### Description

Open your lab to the world of electrochemistry with the economically priced EChem Startup System. It has just about everything you need for most voltammetric experiments.

The system is ideal for both research and teaching experiments, and especially for compound characterization with cyclic voltammetry.

The EA163 Potentiostat has a high bandwidth and is also designed to be used with the Z100 Electrochemical Impedance Analyzer.

### System Components

- ED410 [e-corder 410](#)
- EA163 [Potentiostat / Galvanostat](#)
- ET014 [EChem Electrode Kit](#)
- ES260 [EChem Software](#)
- ES500 [Chart and Scope Software](#)

### Available Techniques

- Cyclic Voltammetry
- Linear Sweep Voltammetry \*
- Square Wave Voltammetry \*
- Normal Pulse Voltammetry \*
- Differential Pulse Voltammetry \*
- Multi Pulse Voltammetry
- Multi Pulse Amperometry
- Chronoamperometry (single or multistep)
- Chronocoulometry (single or multistep)
- Chronopotentiometry (single or multistep)
- Controlled potential electrolysis
- Controlled current electrolysis

\* Also available in stripping mode for trace element determination. Metals such as copper, lead, cadmium and zinc can be determined in the ppb range even in an undergraduate lab (no clean room required!).

Battery technology, corrosion science, conducting polymer and electrosynthesis experiments can also be performed.