

QUICK-START GUIDE



Start-up Guide Echem Analyst[™] software

To open a data file (.DTA extension) for analysis:

- In the **File** drop-down menu, choose **Open**.
- 2 In the Open window, navigate to the My Gamry Data folder.

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Ż,	<u>O</u> pen	Ctrl+0
	Save	
	Save As	
	Close	
	Undo	Ctrl+Z
R.	Overlay File	
3	Print	Ctrl+P
	Print Tabs	
	1\Users\Public\Documents\My Gamry Data\Sample Cyclic Voltammetry - Ascorbic Acid.DTA	
	2\Users\Public\Documents\My Gamry Data\Sample Cyclic Voltammetry - Ferricyanide.GData	
	3\QCM_RCV2.GData	
	4\Integrate Tech Note\CV-5F-1.DTA	
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Choose the desired . DTA file.

Tools menu

The **Tools** menu is where you can open, edit, and run pre-existing analysis scripts (with extension .GScript), or create a new script in Visual Basic.

Help menu

The **Help** menu is where you can get general help about the Echem Analyst program.

Quick Help

Quick Help appears only if a data file is open. Click **Quick Help** for help about that experiment type.



Ø Gamry Echem Analyst - [Sample Cyclic Voltammetry - Ferricyanide.DTA]				
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Cyclic Voltammetry				
€ 100.0 mV 200.0 mV 300.0 mV 400.0 mV 500.0	mV 600.0 m\			

Experiment-specific tools:

With a data file open, a new menu choice appears, using the name of the type of the experiment. (Here we show a cyclic voltammetry dataset.)

Specific actions related to that particular type of experiment are available in a drop-down menu.



To select a portion of a curve:



Click the **Mouse** button 🔯 in the toolbar.



Left-click at one endpoint of the desired curve.

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Left-click at the other endpoint of the desired curve.

A blue cross appears at each endpoint, and the desired portion of the curve turns blue.



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To create a model equivalent circuit:

With EIS data open, click the **Impedance** drop-down menu, and choose **Model Editor**.

Model Editor

Kramers-Kronig

Min/Max

<u>Clear All Fits</u> Options

<u>File T</u>ools <u>W</u>indow <u>H</u>elp <u>Impedance</u> <u>Con</u>

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Bode Nyquist Experimental Setup

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The **Model** Editor opens.

2 Click the desired circuit element to place it on the diagram.

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- Drag and drop the circuit elements to create an equivalent circuit.
- 4 Connect the elements with wires from heavy dot to heavy dot.



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Eit A Model (Levenberg-Marquardt Method)

Fit A Model (Simplex Method) Subtract Impedance...

Connect the circuit to the R.E. (reference electrode) and W.E. (working electrode).

For more details, see the *Echem An*alyst User's Guide (988-00074).

You can find it on your software disc or download it from our website, www.gamry.com