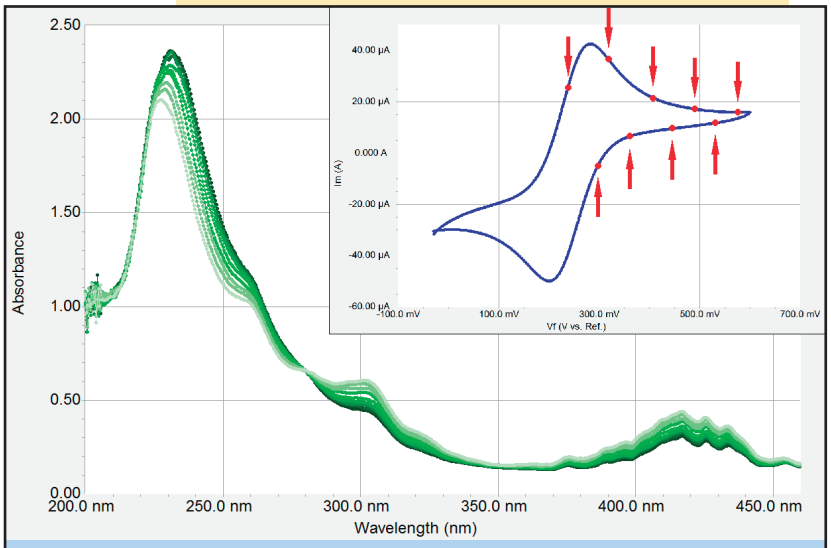
Spectroelectrochemistry

- Run spectroscopy and electrochemistry in synch using one software package.
- Analysis tools for easily plotting absorption at a given wavelength as a function of potential.
- Open source scripting to run the spectrometer.
- Fiber based spectrometers for easy reconfiguration for absorption/transmission, fluorescence/phosphorescence, Raman.
- Temperature compensation for ultra-low thermal drift.

	Spectro 115E	Spectro 115U	BDS100 Light Source (output)
Wavelength Range (nm)	350 - 1050 & 380 - 750	200 - 850	200 - >1000
Communication	USB	USB	--
Dimensions (cm)	10.1 x 6.3 x 4.1	12.4 x 9.1 x 3.5	17 x 7.6 x 6.4
Weight (kg)	0.35	0.40	0.63



Absorbance spectra of 5 mM $K_3[Fe(CN)_6]$ in 10 mM KCl at different potentials during a spectro cyclic voltammetry experiment. Picture on top right shows the CV.

Spectrometers Covering:

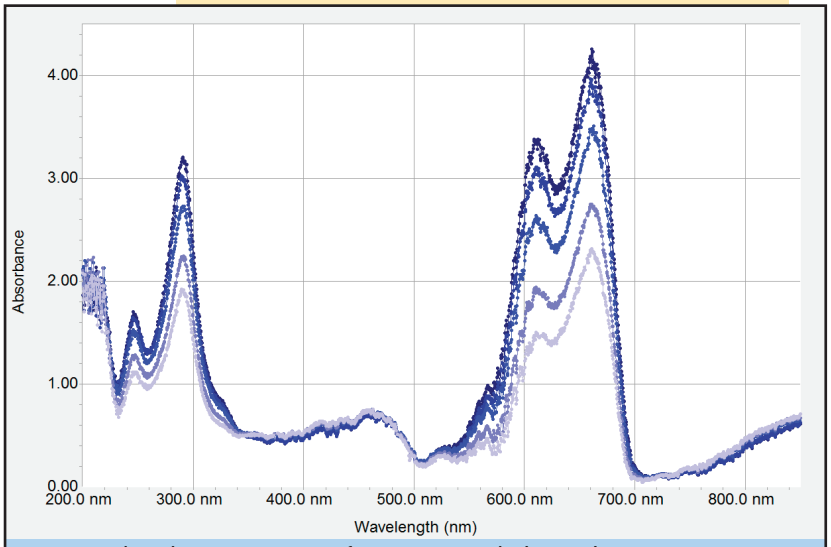
- UV/Vis (200-850nm)
- Vis/NIR (350-1050nm)

Optical Layout:

- Cross Czerny-Turner

High Dynamic Range

High Signal to Noise Ratio



Absorbance spectra of 0.1 mM Methylene Blue in 1 mM KNO3 at different times during a spectro chronoamperometric experiment.

GAMRY INSTRUMENTS

www.gamry.com