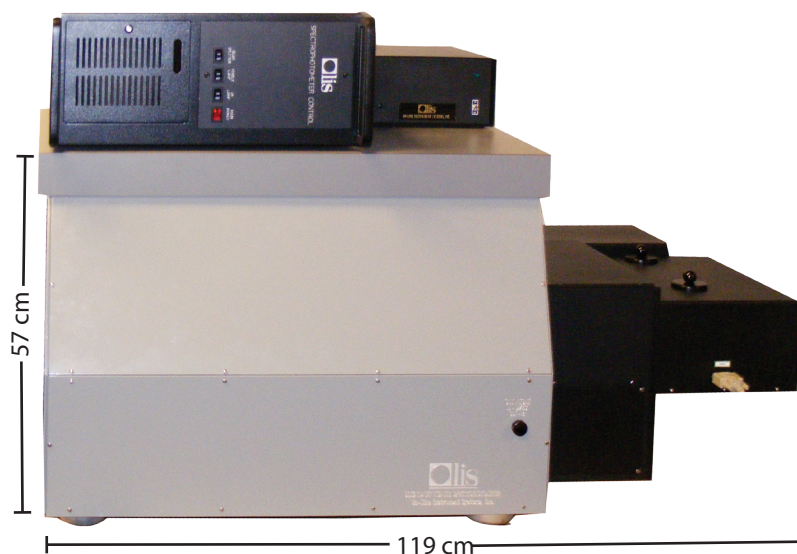


CLARiTY 17

Upcycled Cary 14/17 UV/Vis/NIR absorbance (fluorescence optional)

For laboratories which prioritize NIR measurements, this is the first and best choice. For CLARiTY studies, useful from 240-1100 nm; for solution absorbance studies, 185-2600 nm. Optics are classic Cary prism grating double monochromator with immeasurably low stray light, high photometric precision, computer-controllable slit widths during scanning, angstrom spectral resolution throughout range (0.1 nm in UV/Vis and 0.3 nm in NIR).



Standard Acquisition Modes:

**CLARiTY
Absorbance**

Enhancements Supported:

Fluorescence
Circular Dichroism
Circularly Polarized Luminescence
Phosphorescence Lifetime
Peltier Thermal Control
Diffuse Reflectance
Specular Reflectance
Stopped Flow
Thin Film Holder
Titrator

CLARiTY 17 SPECIFICATIONS

Light Source	50 or 100 watt tungsten (Vis/NIR), 30 watt deuterium (UV)
Spectral Range	185 - 800 nm
Mechanical Range	185 - 2600 nm
Interrogation Method	Dual beam
Dispersive Elements	Prism + grating
Number of Scans per Second	Less than 1
Kinetic Fitting Methodology	Global fits using Matheson's Simplex Method and Matrix Exponentiation
Slew Rate	2000 nm/minute
Scan Rate	Entirely variable, up to 2000 nm/minute.
Wavelength Accuracy	<0.05 nm to 800 nm
Slits	Automatic and continuously variable from 0-3 nm to provide constant bandpass
Spectral Bandpass	Automatic and continuously variable up to 20 nm
Autoscale	Arbitrary
Baseline Stability	<0.1 m ⁰ per day
Integration Time	0.001 to 64,000 per datum
Absorption Range	0.0001 - 100 Abs Units/cm based on chosen DSPC
Absorbance Mode	Single or dual beam