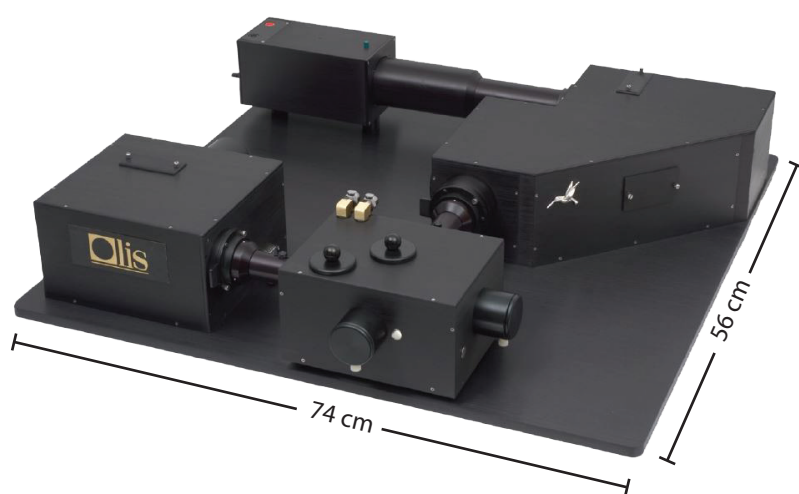


CLARiTY 2/45

Scanning models equally suited for fluorescence and absorbance

For the laboratory which wants highest sensitivity and wavelength scanning before and after the sample for use in both absorbance and fluorescence, these systems are ideal. The 45 has two OLIS single grating monochromators for highest sensitivity; the 245 uses one single grating monochromator plus an OLIS Hummingbird subtractive double for better stray light rejection and thus superior attributes for absorbance. Both employ a Hamamatsu photon counting PMT and broad-band, steady-state xenon arc lamp.



Standard Acquisition Modes:

CLARiTY
Absorbance
Fluorescence

Enhancements Supported:

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

CLARiTY 2/45 SPECIFICATIONS

Light Source	75 watt xenon arc lamp standard. Optional: 150 watt xenon arc lamp
Excitation Monochromator	Single concave 1200 l/mm, 350 nm blaze Optional: 250 nm or 450 nm blaze
Emission Monochromator	Single concave grating, 1200 l/mm, 450 nm blaze Optional: 250 nm or 350 nm blaze
Wavelength Range	240 - 870 nm
Measuring Wavelength Range (photon counting)	230 - 870 nm
Spectral Bandwidth	0.5, 2.4, 5.0, 13 and 25 nm.
Wavelength Accuracy	± 0.2 nm
Monochromator Motor Step	0.125 nm/step
Sensitivity	S/N of 2200 (75 watt lamp) Optional: S/N of 4000 (150 watt lamp); Conditions: 350 nm excitation, 5 nm bandwidth, 1 sec integration
Integration Time	from 0.01 sec per datum
Wavelength Scanning Speed	2000 nm/min
Wavelength Slewing Speed	60 nm/sec
Interface	RS232 and/or USB