

# OLIS Upcycled 14F UV/Vis/NIR

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### Upcycled Cary 14 with emission channel for fluorescence and absorbance use

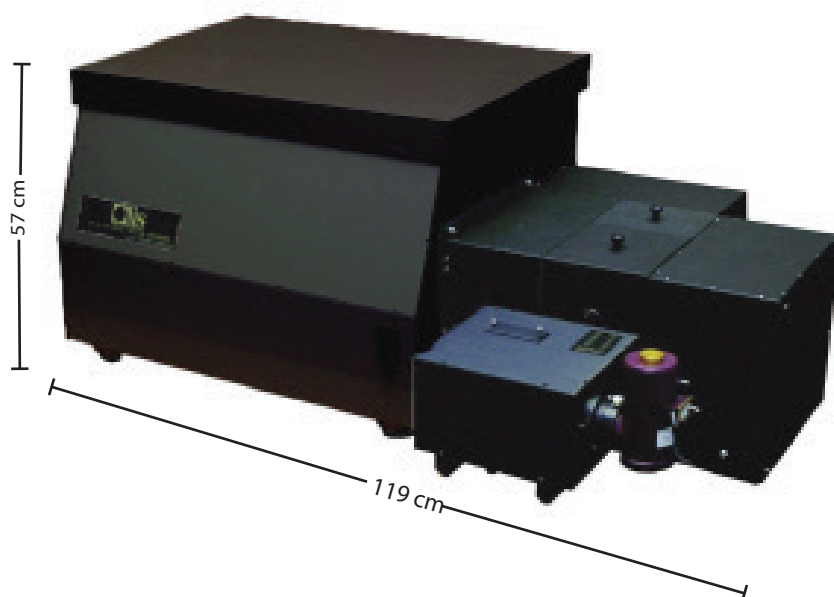
A multiple purpose dual beam spectrophotometer useful for absorbance and fluorescence measurements in the UV, Visible, and NIR regions. True dual beam absorbance acquisition with prism + grating F/8 monochromator using photomultiplier tubes throughout UV/Vis region and PbS detector throughout NIR. Scanning excitation and emission measurements are supported. Fluorescence detection is with a sensitive photon counting device in the UV/Vis and a TE-cooled InGaAs in the NIR. Emission channel is either a UV/Vis emission monochromator and its associated detector or the NIR emission monochromator and its associated detector; both can be purchased for exchange between measurements.

#### Standard Acquisition Modes:

**Fluorescence**  
**Absorbance**

#### Enhancements Supported:

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



### OLIS Upcycled Cary 14F SPECIFICATIONS

Light Source	75 watt steady-state xenon arc lamp
Wavelength Range	200-2600 nm excitation and either 230-870 nm or 700-1700 nm emission; and 185-2600 nm absorbance
Monochromator	Premium quality dual beam, prism + grating F/8 monochromator for absorbance and excitation; single grating UV/Vis or NIR monochromator for emission
Stray Light	< 0.0001%
Photometric System	Digital photon counter for UV/Vis emission OR InGaAs for NIR; for absorbance, PMT for UV/Vis and PbS for NIR
Photometric Accuracy	$\pm 0.001$ ABS units to 2.0 ABS and $\pm 0.003$ from 2.0 to 3.0 ABS
Photometric Repeatability	Better than $< + 0.001$ ABS units