

OLIS Upcycled Cary 14 or 17

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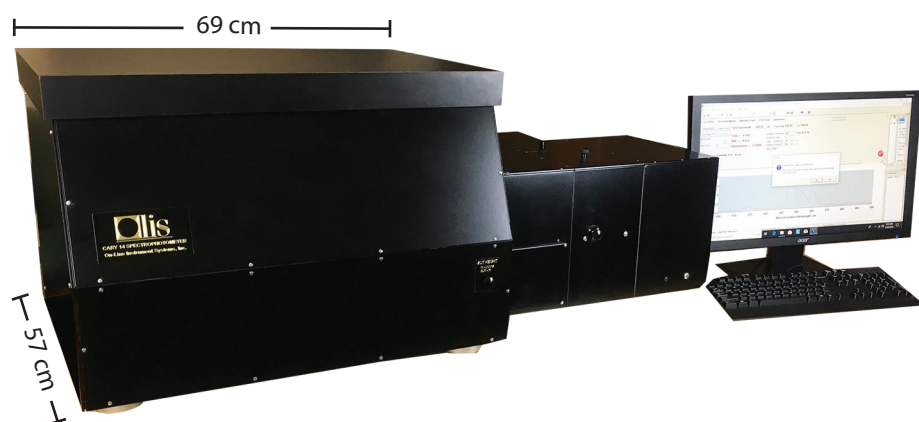
You say "NIR," We Say "14"

This great product line combines a prism-grating double monochromator with our elegant Windows 10 era electro-mechanical hardware and OLIS SpectralWorks software. If you are fortunate enough to own an original 14 or 17, or an Aviv version, we will upcycle yours; if you prefer this heirloom quality over mass-produced alternatives sold by Agilent, *et. al.*, today, you can purchase complete systems from us.

Standard Acquisition Mode: Absorbance UV/Vis/NIR

Enhancements Supported:

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



OLIS UPCYCLED CARY 14 or 17 UV/VIS/NIR ORIGINAL SPECIFICATIONS

Wavelength Range Cary Models 14 & 17	185-2600 nm (with a select few reaching up to 3000 nm)
Optical System Cary Models 14 & 17	Prism & grating
Photometric Noise	± 0.0001 ABS throughout UV/Vis
Drift	± 0.005 ABS/hour
Lifetime	Minimum of ten years, with potential for many decades of uninterrupted utility
Wavelength Drive Speed	Arbitrary; from 40 nm/sec to very slow
Data Sampling Interval	Arbitrary; from 50 nm/sec to arbitrarily long
Light Source Changeover	Computer controlled and user selectable
Stray Light	< 0.0001 %
Photometric System	Side-on photomultiplier tubes for UV/Vis, PbS for NIR; for absorbance, photo counter for emission
Photometric Accuracy	± 0.001 ABS units to 2.0 ABS and ± 0.003 from 2.0 to 3.0 ABS
Auto-Zero Adjustment	Fully under computer control
Baseline Stability	< 0.001 ABS units/hour after initial warm up
Baseline Correction	Automatic with all incoming records once baseline is collected
Baseline Flatness	± 0.001 ABS units/hour after initial warm up
Data Storage Mode	3D scans stored as a single file in default Olis binary (.ols), Excel (.xls) or ASCII (2D)
Repetitive Scanning	As a function of time, temperature, pressure, or other process
Monochromator	Premium quality dual beam, prism + grating F/8 monochromator
Light Source	50 or 100 watt tungsten (Vis/NIR), 30 watt deuterium (UV), 150 watt xenon arc (kinetics & CD).
Detector	R955 PMT (UV/Vis), PbS (NIR), InGasAs (NIR CD or fluorescence)