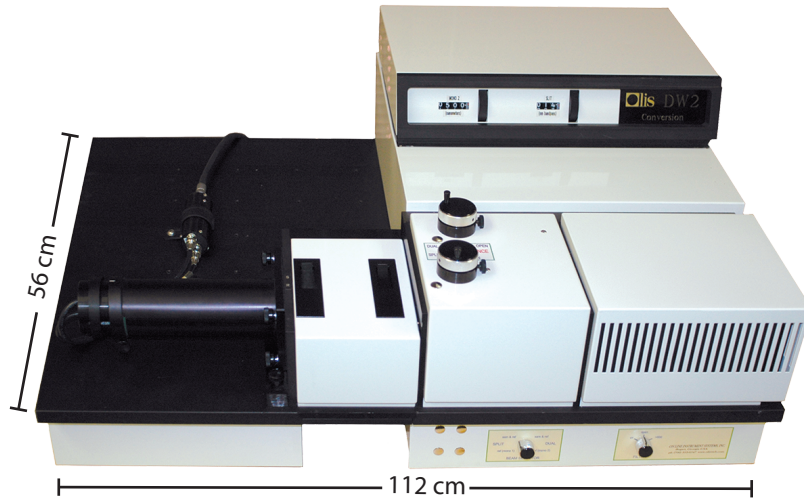


## OLIS UPCYCLED AMINCO DW2/DW2000

aka, Johnson Foundation dual wavelength UV/Vis

This hybrid model combines the dual wavelength method pioneered by Professor Britton Chance at the University of Pennsylvania Johnson Foundation with elegant Windows 10 electro-mechanical hardware and OLIS SpectralWorks software. If you are fortunate enough to own an original model, we will upcycle yours; you can also purchase the complete system from us.



**Standard Acquisition Mode:**  
Absorbance

**Enhancements Supported:**  
Peltier Thermal Control  
Stopped Flow  
Titrator

### OLIS UPCYCLED AMINCO DW2/DW2000 SPECIFICATIONS

Monochromators	Holographic, dual gratings, Czerny-Turner mountings with 1200 grooves/mm Five-phase step motor control with minimum step size of 0.05 nm.
PMT	Hamamatsu R562HA or equivalent
Wavelength Readability	$< \pm 0.05$ nm
Wavelength Range	190 - 900 nm
Wavelength Accuracy	$< \pm 0.2$ nm
Wavelength Precision	$< \pm 0.1$ nm
Wavelength Resolution	$< 0.3$ nm (measured at the half-peak height of 486 nm deuterium emission line)
Slit Width Range	$< 0.01$ nm to 15.0 nm, continuously variable
Stray Light	$< 0.02\%$ at 200 nm; $< 0.03\%$ at 300 nm; $< 0.01\%$ at 700 nm
Photometric Ranges	<b>Absorbance Range:</b> -3.0 to 3.0 AU; maximum sensitivity: 0.001 AU full scale; baseline offset: 0 to 100% <b>Transmittance Range:</b> 0 to 100%; maximum sensitivity: 0 to 0.1% full scale; baseline offset: 0 to 100%
Photometric Accuracy	<b>Deuterium Lamp Supply:</b> Current-regulated pulse width modulator with full line isolation. Automatic warm up cycle and regulated two-stage DC filament source for use with 10 V filament, 35 W Hamamatsu deuterium lamps. RMS ripple at 60 Hz: 0.01%; RMS noise at 29 kHz: 0.008% <b>Tungsten-iodide Lamp Supply:</b> High stability linear element regulator with soft-start capability. Voltage sensed regulation. RMS ripple at 60 Hz: 0.008%; RMS noise at $< 60$ Hz: 0.008%
Signal to Noise Ratio	$< \pm 0.0005$ AU; at 2 A: $< \pm 0.001$ AU peak to peak; at 3 nm slit, 450 nm, slow filter; at 0 A
Photometric Stability	$< 0.004$ AU/hour, double beam mode at 550 nm, 3 nm slit
Wavelength Scanning Speed	0.1 nm/sec to 20 nm/sec
Repetitive Scanning	Arbitrary number of repetitions
Baseline Flatness	$< \pm 0.001$ AU throughout the wavelength range, computer corrected in double beam mode