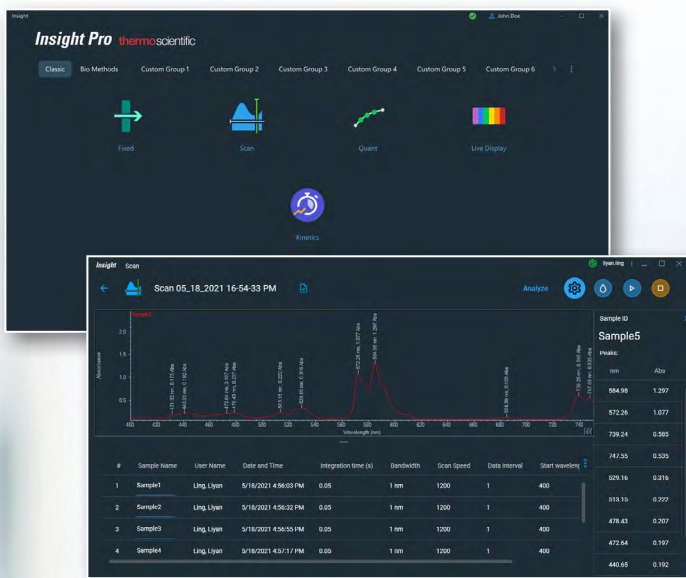


Precision performance for advanced analysis

Evolution Pro UV-Visible Spectrophotometer



The Thermo Scientific™ Evolution™ Pro UV-Visible (UV-Vis) Spectrophotometer is designed to meet the current challenges and requirements of the pharmaceutical, industrial QA/QC, chemical, environmental, materials science, academic, life science, and food and beverage laboratories.

Comprehensive and powerful software completes your Evolution Pro System

- Thermo Scientific™ Insight™ Pro Software offers sophisticated tools for data acquisition, analysis, and reporting in general research and quality control environments
- Thermo Scientific™ Insight™ Pro Security Software offers advanced security options and complete tools for achieving current 21 CFR Part 11 compliance



EVOLUTION Pro
UVA-Vis Spectrophotometer

Optical design	Modified Ebert Double beam with sample and reference cuvette/accessory positions	
Spectral bandwidth(s)	Selectable 0.5, 1.0, 1.5, 2.0, 4.0 nm	
Light source	Xenon flash lamp Typical lifetime: >5 years; longer if not using live display Warranty period: 3-year source replacement warranty	
Detector	Detector dual-matched silicon photodiodes	
Grating	Holographic, 1200 lines/mm, blazed at 240 nm	
Beam separation	210 mm	
Scan ordinate modes	Absorbance, % Transmittance, % Reflectance, Kubelka-Munk, Log(1/R), Log(Abs), ABS × Factor, Intensity, 1st–4th Derivative	
Wavelength	Range	190–1100 nm
	Accuracy	±0.20 nm (546.07 nm Hg emission line) ±0.30 nm (190–900 nm)
	Repeatability	≤0.05 nm (546.1 nm mercury line, SD of 10 measurements)
Scanning speed	Variable, up to 6000 nm/min	
Data intervals	10, 5, 2, 1, 0.5, 0.2, 0.1, 0.05 nm	
Photometric	Range	>4 A
	Display Range	±6 A
	Accuracy – Instrument*	1A: ±0.004 A
		2A: ±0.004 A
		3A: ±0.006 A
	Repeatability	1A: ±0.0001 A
Noise	0A: <0.00018 A	
	1A: <0.00022 A	
	2A: <0.00050 A	
	500 nm, 2.0 nm SBW, RMS	
Drift (Stability)	<0.0005 A/hour	
	500 nm, 2.0 nm SBW, 2 hour warm-up	
Stray light	KCl, 198 nm: ≤0.4% T NaI, 220 nm: ≤0.032% T NaNO ₂ , 340 nm: <0.01% T	
Baseline flatness	±0.001 A (200–800 nm) 2.0 nm SBW, smoothed	
Dimensions (W × D × H)	609 × 526 × 270 mm (23.9" × 20.7" × 10.6")	
Weight	20 kg (44 lb)	
Electrical supply	100–240 V, 50–60 Hz	

* Measured at 440 nm using neutral density filters traceable to NIST. When testing instrument performance, the specification used for pass/fail determination is the sum of the instrument specification listed here and the uncertainty in the calibration data for the filter, listed on the calibration certificate.

For pharmacopeia specifications and more, please visit

thermofisher.com/evolution

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