

UV/Visible Spectroscopy

LAMBDA 265, 365, 465



With PerkinElmer's new LAMBDA™ instrumentation systems, your people are able to run complex, as well as basic analytical experiments, quickly and easily, whether they are UV/Vis experts or novice users. That means you can have much more confidence in your results – regardless of who produces them. With automatic accessory alignment, those results are mistake-free as possible. And best of all, these systems' advanced design, packs all these global capabilities into a compact footprint that fits into any lab. Put that together with industry leading expertise in UV/Vis, and you have systems you can count on for a long time to come.

LAMBDA Systems: The perfect UV/Vis instruments for your lab.

Technical Description and Specifications				
		LAMBDA 265	LAMBDA 365	LAMBDA 465
Wavelength range		190-1100 nm	190-1100 nm	190-1100 nm
Absorbance range		± 3 A	± 4 A	± 3 A
Stray Light	At 220 nm (NaI)	< 0.05 %T	< 0.02 %T	< 0.05 %T
	At 340 nm (NaNO ₂)	< 0.03 %T	< 0.02 %T	< 0.03 %T
	At 200 nm (KCl)	< 1 %T	< 1 %T	< 1 %T
Bandwidth		–	0.5, 1, 2, 5, 20 nm variable	–
Optical Resolution		2 nm		1 nm
Wavelength accuracy	D ₂ Peak, 656.1 nm	± 1 nm	± 0.1 nm	± 0.2 nm
Wavelength reproducibility	10 measurements at 656.1 nm	< 0.02 nm	± 0.1 nm	< 0.02 nm
Photometric accuracy	At 1 A	± 0.01 A	± 0.004 A	± 0.005 A
Photometric reproducibility	At 1 A	< 0.002 A	< 0.001 A	< 0.001 A
Photometric drift	At 1 A, 500 nm	< 0.002 A/hour	< 0.0003 A/hour	< 0.001 A/hour
Photometric noise (RMS)	1 nm slit	< 0.002 A @ 300 nm	< 0.00005 A @ 700 nm	< 0.0001 A @ 300 nm
Scan speed		< 3 seconds (Full range)	Variable 1 to 3000 nm/min (optimized by method parameters)	< 3 seconds (Full range) (20 msec. Fast Kinetics)
Source		Xenon flash	Deuterium & Tungsten	Deuterium & Tungsten
Pharmacopia compliance	US, Europe, Japan		Yes	Yes

Technical Description and Specifications				
		LAMBDA 265	LAMBDA 365	LAMBDA 465
Available sampling accessories	Single cell	Yes	Yes	Yes
	Single cell (jacketed)	Yes	Yes	Yes
	Variable pathlength cell	Yes	Yes	Yes
	Transmission	Yes	Yes	Yes
	Variable angle transmission		Yes	Yes
	Film holder		Yes	Yes
	Multi (8) Position cell	Yes	Yes	
	Multi (8) Position cell (jacketed)	Yes	Yes	Yes
	Reflectance	Yes	Yes	
	Diffuse reflectance			Yes
	Test tube holder		Yes	
	Single cell (Peltier)	Yes	Yes	Yes
	Multi (6) cell (Peltier)		Yes	Yes
	Integrating Sphere		Yes	
	Sipper	Yes	Yes	Yes
	Fiber probe		Yes	Yes
Autosampler	Yes	Yes	Yes	
Interface		USB	USB	USB
External services		None	None	None
Size (W x D x H)	Millimeters	340 x 320 x 115	495 x 500 x 270	450 x 541 x 232
Weight		7 kg	20 kg	16 kg

*Subject to change without notice.