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Technical Specifications for the LAMBDA 25/35/45 UV/Vis Spectrophotometers

Technical description and specifications		LAMBDA™ 25	LAMBDA™ 35	LAMBDA™ 45
Part number*	(Standard System)	L6020060	L6020064	L6020068
Part number*	(Enhanced Security System)	L6020062	L6020066	L6020070
Wavelength range		190-1100 nm	190-1100 nm	190-1100 nm
Bandwidth		1 nm fixed	0.5, 1, 2, 4 nm variable	0.5, 1, 2, 4 nm variable
Stray light	At 220 nm (NaI) At 340 nm ($NaNO_2$) At 370 nm ($NaNO_2$) At 200 nm (KCl)	< 0.01%T < 0.01%T < 0.01%T < 1%T	< 0.01%T < 0.01%T < 0.01%T < 1%T	< 0.005%T < 0.005%T < 0.005%T < 1%T
Wavelength accuracy	At D_2 peak (656.1 nm)	±0.1 nm	±0.1 nm	±0.1 nm
Wavelength reproducibility	10 measurements at 656.1 nm	±0.05 nm	±0.05 nm	±0.05 nm
Photometric accuracy	At 1 A using NIST 930D filter At 2 A using NIST 1930D filter Potassium dichromate	±0.001 A ±0.005 A ±0.010 A	±0.001 A ±0.005 A ±0.010A	±0.001 A ±0.005 A ±0.010 A
Photometric reproducibility	Maximum deviation of 10 measurements at 1 A	< 0.001 A	< 0.001 A	< 0.001 A
Photometric stability	Stability at 1 A, at 500 nm with 2-sec. response time	< 0.00015 A/hour	< 0.00015 A/hour	< 0.00015 A/hour
Photometric noise at 500 nm (RMS)	Noise 500 nm/0 A RMS Slit 1 nm	< 0.00005 A	< 0.00005 A	< 0.00005 A
Baseline flatness	Slit 1 nm	±0.001 A	±0.001 A	±0.001 A

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precisely.

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Technical description and specifications

	LAMBDA™ 25	LAMBDA™ 35	LAMBDA™ 45
Construction	Solid CNC-machined aluminum chassis for thermal and vibration stability		
Optics	Double-beam, sealed, quartz-coated mirrors; lens-free system to reduce chromatic aberrations		
Monochromator	Seya Namioka		
Grating	Holographic, concave grating with 1053 lines per mm		
Source	Deuterium and Tungsten prealigned sources with automatic switch-over		
Size (W x D x H)	650 mm (25 in.) x 560 mm (22 in.) x 233 mm (9 in.)		
Weight (approx.)	26 kg (57 lbs)		

The specifications listed above are confirmed and are based on final test pass criteria used in manufacturing.
Typical specifications may be superior to those listed.

*Requires PC

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