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## ***Perkin Elmer Lambda 35 UV/VIS Spectrophotometer***

### **LAMBDA 35 UV/Vis Systems**

Choose the Lambda 35 for measurements on liquids, solids, pastes and powder samples, also regulatory tests requiring variable resolution. The variable bandwidth operation allows sensitive measurements with accessories such as integrating spheres and fiber-optics probes, extending the range of samples that can be analyzed.

- Range : 190 – 1100 nm
- Bandwidth : 0.5 – 4 nm (variable)
- Modes Of Operation : scanning, wavelength program, time-drive, rate, quant, scanning quant

#### **Benefits**

#### **Features**

- True double-beam operation
- High throughput, low stray-light optics
- Pre-aligned deuterium and tungsten-halogen lamps
- Widest range of accessories and consumables
- Choice of UV WinLab software
- Very high stability, high accuracy and reproducibility.
- Easily passes all pharmacopoeia and regulatory performance tests
- Quickly replaced for minimal downtime
- Perfect for the routine analysis of liquids, powders, solids, pastes and gases
- Select the version that best matches your analysis needs and the skill level of your operators.

## 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)	< 0.01%T	< 0.01%T	< 0.005%T
	At 340 nm (NaNO <sub>2</sub> )	< 0.01%T	< 0.01%T	< 0.005%T
	At 370 nm (NaNO <sub>2</sub> )	< 0.01%T	< 0.01%T	< 0.005%T
	At 200 nm (KCl)	< 1%T	< 1%T	< 1%T
Wavelength accuracy	At D <sub>2</sub> 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	±0.001 A	±0.001 A	±0.001 A
	At 2 A using NIST 1930D filter	±0.005 A	±0.005 A	±0.005 A
	Potassium dichromate	±0.010 A	±0.010A	±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

### 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)

LAMBDA™ 25/35/45 UV/Vis Spectrophotometers increase productivity by mimicking the QA workflow to generate high-quality results the first time, every time. And that's exactly what you need in a busy laboratory when the pressure's on and it's your job to keep the results flowing. LAMBDA systems are easy to operate and deliver results you can trust with the minimum of operator training. With our complete range of LAMBDA systems it's easy to develop simple, robust methods and ensure they're followed without mistakes. And, whichever LAMBDA system you choose, your day-to-day UV/Vis analyses will be faster, simpler and more dependable than ever before.

WinLab™ software works the way you work, guiding you through a step-by-step process that simplifies analysis from sample entry to report generation, eliminating costly

mistakes and delivering rapid results. You can rely on our proven technology to deliver consistently high-quality results over the lifetime of the system, and you can confirm those results with our extensive suite of Instrument Performance Verification (IPV) tests. For FDA-regulated industries, the Enhanced Security™ (ES) version of UV WinLab integrates seamless 21 CFR Part 11 technical compliance without slowing you down.

	LAMBDA 25	LAMBDA 35	LAMBDA 45
			
	The LAMBDA 25 is an ideal match for most routine UV/VIS applications and regulatory tests, giving fast and reliable results time after time.	The variable bandwidth of the LAMBDA 35 offers the best solution for measurements on solids, pastes and powders.	The LAMBDA 45's premonochromator deals easily with light scattering samples.
Range (nm)	190-1100		
Double-Beam Operation	Yes	Yes	Yes
Bandwidth (nm)	1 (fixed)	0.5-4 (variable)	0.5-4 (variable)
Pre-Monochromator	No	No	Yes
Modes of Operation	Scanning, Wavelength Program, Timedrive, Rate, Quant, Scanning Quant		
Applications	Routine UV/Vis testing	Routine UV/Vis testing	Routine UV/Vis testing
	Liquids analysis	Liquids analysis	Liquids analysis
	Pharmacopeia and regulatory tests	Solids, pastes and powder samples	Solids, pastes and powder samples
		Regulatory tests requiring variable bandwidths	Regulatory tests requiring variable bandwidths
			Highly scattering samples



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