

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 35 | LAMBDA 265 | LAMBDA 365 | LAMBDA 465 | |
| Wavelength range | 190-1100 nm | 190-1100 nm | 190-1100 nm | 190-1100 nm | |
| Absorbance range | ± 3.3 A | ± 3 A | ± 4 A | ± 3 A | |
| Stray Light | At 220 nm (NaI) At 340 nm (NaNO ₂) At 200 nm (KCl) | < 0.01 %T < 0.01 %T < 1 %T | < 0.05 %T < 0.03 %T < 1 %T | < 0.02 %T < 0.02 %T < 1 %T | < 0.05 %T < 0.03 %T < 1 %T |
| Bandwidth | 0.5, 1, 2, 4 nm variable | 2 nm | 0.5, 1, 2, 5, 20 nm variable | 1 nm | |
| Wavelength accuracy | D ₂ Peak, 656.1 nm | ± 0.1 nm | ± 0.1 nm | ± 0.2 nm | |
| Wavelength reproducibility | 10 measurements at 656.1 nm | ± 0.05 nm | < 0.02 nm | ± 0.1 nm | < 0.02 nm |
| Photometric accuracy | At 1 A | ± 0.003 A | ± 0.01 A | ± 0.004 A | ± 0.005 A |
| Photometric reproducibility | At 1 A | < 0.001 A | < 0.002 A | < 0.001 A | < 0.001 A |
| Photometric drift | At 1 A, 500 nm | <0.00015 A/hour | <0.002 A/hour | <0.0003 A/hour | <0.001 A/hour |
| Photometric noise (RMS) | 1 nm slit | < 0.00005 A @ 500 nm | < 0.002 A @ 300 nm | < 0.00005 A @ 700 nm | < 0.0001 A @ 300 nm |
| Baseline flatness | 1 nm slit | ± 0.001 A | | ± 0.0005 A | <0.0005 A |
| Scan speed | 7.5, 15, 30, 60, 120, 240, 480, 960, 1920 and 2880 nm/min | < 3 seconds (Full range) | Variable 1 to 3000 nm/min (optimized by method parameters) | < 3 seconds (Full range) | |
| Source | Deuterium & Tungsten | Xenon flash | Deuterium & Tungsten | Deuterium & Tungsten | |
| Pharmacopia compliance | US, Europe, Japan | Yes | Yes | Yes | |

Technical Description and Specifications

| | | LAMBDA 35 | LAMBDA 265 | LAMBDA 365 | LAMBDA 465 |
|--------------------------------|------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Available sampling accessories | Single cell | Yes | Yes | Yes | Yes |
| | Single cell (jacketed) | Yes | Yes | Yes | Yes |
| | Variable pathlength cell | Yes | Yes | Yes | Yes |
| | Transmission | Yes | Yes | Yes | Yes |
| | Variable angle transmission | Yes | | Yes | Yes |
| | Film holder | | | Yes | Yes |
| | Multi (8) Position cell | Yes | Yes | Yes | |
| | Multi (8) Position cell (jacketed) | Yes | Yes | Yes | Yes |
| | Reflectance | Yes | Yes | Yes | |
| | Diffuse reflectance | Yes | | | Yes |
| | Test tube holder | Yes | | Yes | |
| | Single cell (Peltier) | Yes | Yes | Yes | Yes |
| | Multi (6) cell (Peltier) | Yes | | Yes | Yes |
| | Integrating Sphere | Yes | | Yes | |
| | Sipper | Yes | Yes | Yes | Yes |
| Fiber probe | Yes | | Yes | Yes | |
| Autosampler | Yes | Yes | Yes | Yes | |
| Interface | | RS-232 | USB | USB | USB |
| External services | | None | None | None | None |
| Size (W x D x H) | Millimeters | 650 X 560 x 233 | 340 x 320 x 115 | 495 x 500 x 270 | 450 x 541 x 232 |
| Weight | | 26 kg | 7 kg | 20 kg | 16 kg |