SPEED
STABILITY&
CONFIDENCE

LAMBDA XLS and XLS+ Spectrophotometers
XLS and XLS+ Spectrophotometers

PerkinElmer®
For the Better

FLEXIBILITY &
PERFORMANCE
YOU CAN TRUST

One of the most trusted product lines in the industry is expanding.

When you see the name LAMBDA you know you're getting a quality instrument. We've been manufacturing UV/Vis and UV/Vis/NIR instruments under the name LAMBDA for over 60 years. We'd like to introduce you to the newest, smallest member of our family, the LAMBDA XLS – a personal UV/Vis spectrophotometer for all your routine laboratory needs.

This is one time when big news comes in a small package.

Intuitive, easy to use tools can save you both time and money. The LAMBDA XLS was designed specifically with this in mind. With the latest innovative technology, this instrument allows you to invest your time in analyzing important data, rather than struggling to generate it. In addition, built-in, multiple language configurations will allow you to select the language most applicable to you.

Performance that wows the crowd and the finance people.

With it's large LCD screen and full scanning capabilities, the LAMBDA XLS is a crowd pleaser. Built to last, easy to use and even easier to own. No moving parts, virtually no maintenance and no consumables make the LAMBDA XLS the perfect tool when the instrument just needs to work, day-in and day-out. Rely on the LAMBDA XLS. It's the smart choice for your laboratory in any application from teaching – where operator training may be an issue, to the most advanced R&D laboratory – where precious samples need to be processed right, the first time. The LAMBDA XLS will win the hearts and minds of anyone working with it. After all, it is a LAMBDA.

You don't need an impressive budget, to have an impressive instrument.

The performance you'll experience with the LAMBDA XLS is only normally associated with much more expensive designs. Experience:

- Instant answers – unlike other instruments on the market, our LAMBDA XLS requires no warm up time. Our ultra fast initialization will have you analyzing a full range of spectra in less than 3 seconds.

- Continuous uptime – our maintenance-free design with no moving parts, Xenon Light Source (XLS) and innovative polychromator technology provides you the reliability your laboratory needs.

- Superb stability – avoid instrument drift from excess heat with our split beam design and external power supply.

- Ruggedness – our sealed, zero-bounce membrane keypad is resistant to even the largest solvent spills.

Provides you with the versatility to do just about anything

Your work environment may be complex, but that doesn't mean your instrument needs to be. With the simplicity and elegance of the LAMBDA XLS, you'll be empowered to analyze samples when and where your projects demand:

- View, expand, and manipulate full spectra quickly and easily with the large, clear, 11.5 cm by 8.8 cm, backlit LCD display.

- Feel confident – low stray light provides exceptional linearity and confidence in your measurements.

- Personalize your laboratory – with the capacity to store up to 90 user-developed methods.

- Convenient sampling flexibility — measure your samples in any of our high quality precision glass, quartz, or disposable cells:
  — 10, 20 and 40 mm pathlength cells
  — Semi-micro cells: 700 µl
  — Micro cells: 70 µl
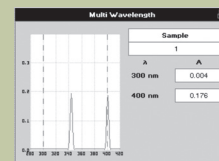 — Ultra-micro cells: 15 µl

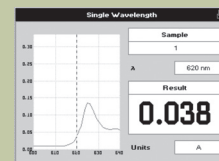## Share the knowledge – multiple archiving and data sharing options

- Collect data from up to 8 instruments: a single PC using PVC application software can be configured to accept and automatically display data from up to 8 instruments. Data can be archived in Excel® (.xls), ASCII (.csv or .txt), graphics (.emf), or rich text (.rtf) formats.

- Built in USB port: transfer data to your computer for viewing, manipulating, printing, or archiving using the built in USB connection port. LAMBDA XLS PVC software is provided as standard with all instruments.

- Optional integrated thermal printer: For your permanent records, use the optional thermal printer to print all your results. With the standard 57 mm printer roll, your print-out can accommodate:
  — Calibration Data
  — Result
  — Time and Date

- Secure Digital (SD) Flash Storage Card or Bluetooth® compatible: for your archiving convenience, the LAMBDA XLS can be outfitted to accommodate a standard SD flash storage card or Bluetooth® accessory allowing you additional flexibility for transferring data.

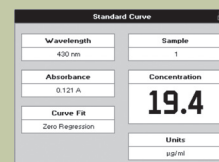## Experience the power – flexible on-board software

The LAMBDA XLS software is optimized to provide you with answers fast and conveniently. Save your own methods or choose from our broad range of pre-loaded measurement modes for simple efficient analysis.
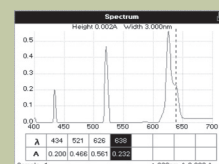

Data will be acquired at selected wavelengths and displayed in %T or absorbance
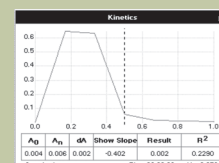

Allows you to specify a single wavelength to acquire data in %T or absorbance
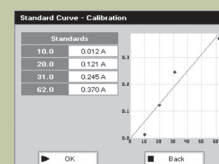

Data acquired at a defined wavelength will be multiplied by a constant selected by the user and the result displayed
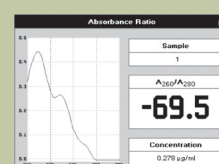

You can define a spectral range over which spectrum will be acquired and displayed in %T or absorbance

Enables changes in absorbance or concentration at user-defined wavelengths to be measured as a function of time

Up to 9 standards can be used to develop and store a calibration curve which will be used to determine a sample concentration

Calculates absorbance or concentration ratios using two defined wavelengths

SPECIFICATIONS		LAMBDA XLS	LAMBDA XLS+
Optical design		Split beam	
Spectral bandwidth		5 nm	3 nm
Wavelength	Range	190-1100 nm	
	Scanning range	200-950 nm	
	Calibration	Automatic when the instrument is switched on	
	Accuracy	±2 nm	
	Reproducibility	±1 nm	
Light source		Pulsed Xenon lamp – 5+ year lifetime	
Photometric Range		-0.300 to 2.500 A, 0 to 199 %T	
Linearity		±0.005 A or 1% of the reading, whichever is the greater at 546 nm	
Reproducibility		±0.003 A (0-0.5 A), ±0.007 A (0.5-1.0 A)	
Stray light		<0.5% at 220 nm and 340 nm using $NaNO_2$	
Zero stability		±0.01 A/hour	
Noise		0.005 peak to peak 0.002 rms	
Stored capacity		90 methods	
Display		11.5 cm x 8.8 cm	
Keypad		Sealed membrane keypad	
Outputs		USB, SD Card (optional), Bluetooth® (optional), Printer (optional)	
Dimensions (WxHxD)		340 x 170 x 330 mm (340 x 170 x 420 mm with printer attached)	
Weight		3.2 kg (7.1 lb)	
Power input		100-250 V, 50/60 Hz, Max 30 VA	
Languages		English, Spanish, German, French, Italian, Japanese	
Warranty		1 year	

ONLINE ORDERING INFORMATION		OPTIONS AND CONSUMABLES	
Part No.	**System**	**Part No.**	**Description**
L7110189	LAMBDA XLS	L7110230	Printer module
L7110190	LAMBDA XLS with Printer	L7110232	Spare printer paper (20 rolls)
L7110191	LAMBDA XLS with SD Card	L7110233	Bluetooth® accessory
L7110192	LAMBDA XLS+		
L7110193	LAMBDA XLS+ with Printer		
L7110194	LAMBDA XLS+ with SD Card		

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