the new industry-standard
LAMBDA™ UV/Vis/NIR and UV/Vis
spectrophotometers – 950, 850, and 650
from PerkinElmer

high-performance systems
delivering superior data quality
and sampling flexibility
Dear Analytical Scientist:

PerkinElmer’s LAMBDA™ Series UV/Vis/NIR and UV/Vis spectrophotometers have consistently offered best-in-class accuracy, precision and reproducibility to scientists for nearly 50 years. For sampling flexibility and superior data quality, our instruments have become the standard in thousands of laboratories, in multiple industries worldwide. Building on this tradition of excellence, the new high-performance, innovative LAMBDA 950/850/650 range confirms our leadership in UV/Vis/NIR and UV/Vis spectroscopy.

Designed by scientists - for scientists.

We designed the LAMBDA 950/850/650 Series knowing the complex requirements of today’s laboratories. When we queried our customers and industry experts, users overwhelmingly requested greater flexibility and easier-to-use and more functional accessories, along with the ability to produce results more quickly, and advanced software routines. As a result, the new LAMBDA Series offers an unmatched range of snap-in sampling modules, as well as newly engineered workflow software, ensuring increased productivity. We’ve also redesigned the LAMBDA Series for the highest spectroscopic performance. PerkinElmer is proud to introduce several new advanced features and accessories, including the industry’s first fully automated Universal Reflectance Accessory (URA). Our URA, which completely streamlines and simplifies variable angle absolute reflectance analysis, reduces set-up time and increases throughput for a broad range of tough measurements.

Everything you need, we thought of.

No matter what your industry – from optical coatings to life sciences to glass – and whether you need to analyze optics, flat panel displays or semiconductors – the LAMBDA 950/850/650 Series provides the high standards of results, accuracy and quality that have made PerkinElmer the industry leader.

Questions? Concerns? PerkinElmer wants to hear from you.

We hope you’ll read through the brochure to learn about the features designed for laboratories like yours, and why they make LAMBDA spectrophotometers the standard for demanding UV/Vis/NIR and UV/Vis sampling. Or, for industry-specific questions and instrumentation information, contact a PerkinElmer representative at 1 (800) 250-6070 ext. 800 or visit www.perkinelmer.com/lambda.

Yours truly,

Peter Coggins, PhD
President
PerkinElmer
Life and Analytical Sciences

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The new LAMBDA Series introduces intelligent modules and accessories designed to enhance flexibility, productivity and convenience in your lab.

PerkinElmer introduces a range of state-of-the-art spectrophotometers featuring innovative, quick-change, intelligent accessories, allowing for an expanded range of new options, tools and software. Our new systems minimize non-productive time spent on set-up and alignment, and offer something that is available nowhere else – PerkinElmer’s reputation for excellence, along with our outstanding global service organization.

Maximizing consistent results

At PerkinElmer, we have the importance of delivering the highest reliability and data integrity on the most demanding of samples. Whether you need to measure the absolute reflectance of coatings at variable angles, characterize optical filters, or analyze highly absorbing liquids, the LAMBDA™ 950/850/650 Series produce the most consistent, accurate results in the industry.

Designed for demanding analysis

With a wide-range of intelligent modules that snap in and out easily, the LAMBDA Series can handle your laboratory’s most demanding analyses. Our innovative new high-performance optical bench, intelligent accessories, large automated sampling compartments and easy-to-use analytical software with professional workflow make the new LAMBDA 950/850/650 Series the industry’s most capable UV/Vis/NIR and UV/Vis instruments.

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The facts at a glance

- Increased flexibility and convenience
- Setting the standard for ease-of-use
- Engineered with smart flexibility
- The Universal Reflectance Accessory (URA)
- Maximum versatility delivering optimal performance
- System specifications
- Inside the LAMBDA UV WinLab™ software
- PerkinElmer support and service

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LAMBDA Series: next-generation technology addressing the demands of today’s labs

- Highest performance UV/Vis/NIR system
- Wavelength range: 175 nm – 3,300 nm
- UV/Vis resolution: 0.05 nm – 5.00 nm
- NIR resolution: 0.20 nm – 20.00 nm

- Highest performance UV/Vis system
- Wavelength range: 175 nm – 900 nm
- UV/Vis resolution: 0.05 nm – 5.00 nm

- Upgradeable, flexible UV/Vis at a cost-effective price
- Wavelength range: 190 nm – 600 nm
- UV/Vis resolution: 0.17 nm – 5.00 nm

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www.perkinelmer.com
An industry first
The LAMBDA™ 950/850/650 Series provides a more convenient and flexible approach to sampling than any other UV/Vis/NIR and UV/Vis system on the market today. Users are able to easily change intelligent sampling modules, and our wide range of accessories reduces the time-consuming complexity of challenging analyses.

Setting the standard for convenience
Improved interchangeability allows sampling modules to simply snap into place. Each one locks into position, requiring no adjustment, saving you valuable time and enabling you to process samples more readily. All key optical components are protected, maintaining critical alignment and minimizing non-productive time. Additionally, the new, easy-to-use UV WinLab™ analytical software with professional workflow streamlines analyses, making the LAMBDA Series the most thorough and capable UV/Vis/NIR and UV/Vis instrument range in the industry.

Engineered with smart flexibility
PerkinElmer has designed the LAMBDA Series to accommodate a wide variety of samples. The dual sample compartments, the largest in the industry, offer multiple options and the versatility to work with diverse samples. The large compartment detection modules can be rapidly changed from a standard transmission configuration to all of the options necessary in today's busy laboratory, including a 150 mm integrating sphere and a Universal Reflectance Accessory (URA). The General Purpose Optical Bench (GPOB) with magnetic optical mounts allows you to create a customized optical system to handle a wide range of sample types – including lenses and telescopes – giving your lab the ultimate in flexibility.

The Universal Reflectance Accessory (URA) Only from PerkinElmer
The LAMBDA 950/850/650 Series introduces a breakthrough in high-sensitivity, absolute reflectance measurements – the Universal Reflectance Accessory (URA). This URA dramatically improves on traditional methods of measuring by automatically and reproducibly changing the angle with no adjustments to sample or optics, reducing costs and producing results faster. Previously, multi-angle analyses often required three or four conventional accessories and many manual adjustments. Sampling angles are selected with a single mouse click, eliminating time-consuming manual mirror adjustment. In addition, the sample is simply placed onto a horizontal sampling plate, avoiding the inconvenience and damage caused by vertical clamping.

Increased flexibility and convenience from the world leader in UV/Vis/NIR and UV/Vis
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maximum

delivering optimal performance.

versatility

Tackles difficult transmission analyses with ease
• High-sensitivity transmission measurements on liquids and solids
• Tolerant to cloudy samples, including blood, proteins and blood plasma
• Cost savings made easy and simplified multiple-sample measurements

Universal Reflectance Accessory (URA)
• Unique to PerkinElmer
• Snap-in module, changes angle automatically
• No alignment or adjustment required

Unmatched sample compartment size
• Additional room to mount samples
• More room to work
• Agility to mount polarizers and depolarizers

Industry’s only dual sampling compartments
• Snap-in/snap-out for maximum flexibility
• Compartments are quickly and easily reconfigured
• Extra space available for samples, accessories and large integrating spheres

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Sampling modules require only seconds to change
• Easily changeable to accommodate next sample requirement
• Sample variety will no longer be a bottleneck
• Broader range of users able to run different analyses

Call 1 (800) 250-6070 ext. 800* to arrange a FREE CONSULTATION with a PerkinElmer LAMBDA specialist, or e-mail us: lambda@perkinelmer.com
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Choose the LAMBDA 950 for ultra-high UV/Vis/NIR performance for wavelengths up to 3,300 nm, high-precision measurements, and for applications requiring an exceptionally wide range of new features for hundreds of applications.

To arrange a free consultation with a PerkinElmer LAMBDA specialist, or to receive application notes or specification sheets for the LAMBDA Series, call 1 (800) 250-6070 ext. 800 or visit www.perkinelmer.com/lambda or e-mail us: lambda@perkinelmer.com. These specifications are guaranteed, not “typical” performance specs.

The LAMBDA™ Series of UV/Vis/NIR and UV/Vis spectrophotometers is the industry standard for high performance, flexibility and convenience. Each model includes the same range of modular components and snap-in accessories to tackle a range of tough applications. Whatever specifications your laboratory requires, the LAMBDA Series provides best-in-class accuracy, precision and reproducibility.

Choose the LAMBDA 850 for ultra-high UV/Vis performance between 175 nm and 900 nm. Sun protection, reflectance properties of flat panel display screens, paint films, transmission and reflectance characterization of UV, Vis and NIR filters, and more.

The cost-effective choice for high-performance UV/Vis measurements between 190 nm and 900 nm – for example, color analysis of paints and textiles, and biochemistry and pharmaceutical laboratories. The 650 also offers upgradeability to 850 nm, 950 nm, and 320 nm measurements.

The LAMBDA 950 is rated for high-range 950 nm performance between 175 nm and 3,300 nm. Ultra-precision, reflective, and transmissive analysis of paints and textiles, and biochemistry and pharmaceutical laboratories. The 950 also offers upgradeability to 850 nm, 950 nm, and 320 nm measurements.

The LAMBDA Series of UV/Vis/NIR and UV/Vis spectrophotometers is the industry standard for high performance, flexibility and convenience. Each model includes the same range of modular components and snap-in accessories to tackle a range of tough applications. Whatever specifications your laboratory requires, the LAMBDA Series provides best-in-class accuracy, precision and reproducibility.

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The cost-effective choice for high-performance UV/Vis measurements between 190 nm and 900 nm – for example, color analysis of paints and textiles, and biochemistry and pharmaceutical laboratories. The 650 also offers upgradeability to 850 nm, 950 nm, and 320 nm measurements.

The LAMBDA 950 is rated for high-range 950 nm performance between 175 nm and 3,300 nm. Ultra-precision, reflective, and transmissive analysis of paints and textiles, and biochemistry and pharmaceutical laboratories. The 950 also offers upgradeability to 850 nm, 950 nm, and 320 nm measurements.
inside the PerkinElmer LAMBDA 950/850/650 Series
the highest performing UV/Vis/NIR and UV/Vis available

Another PerkinElmer exclusive

All three of the LAMBDA™ Series instruments feature unmatched polarization measurement capabilities to match your analytical needs.

• Common beam depolarizer corrects for instrument bias.
• Automated polarizer/depolarizer drive in the large sample compartment provides further depolarization or allows study of oriented samples with polarized light.
• Compatible with transmission and reflectance measurements.

To arrange a free consultation with a PerkinElmer LAMBDA specialist, or to receive application notes or specification sheets for the LAMBDA Series, call 1 (800) 250-6070 ext. 800*, or e-mail us: lambda@perkinelmer.com

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UV WinLab software – works the way you work

PerkinElmer’s powerful UV WinLab™ software works the way you do — streamlining laboratory workflow — guiding you through method development and reporting and analysis of results in simple steps. UV WinLab software also offers multiple tools, including databases, trending functions and security that you need to meet all of your analytical challenges and data requirements. The software is also available in an Enhanced Security™ (ES) 21 CFR Part 11 compliant version for regulated industries.

Maximum flexibility for enhanced productivity

- Simple Method Development with scan, rate, quant, derivative and wavelength program modes for maximum applications flexibility.
- Storage of all results in a secure database aids GLP and makes reviewing results easy.
- Intelligent querying allows searching on multiple table parameters.
- Trending tools offer the ability to review analysis and predict based on a set of method parameters. This unique feature provides in-depth insight to your samples and can help identify problems before they happen.
- Fully integrated math engine.
- Ability to create customized report templates.
- All instrument set-up parameters are easily accessed within UV WinLab software.

Easy-to-use, unrivaled security features

Access control is built into the software, locking methods so that analysts follow defined procedures and cannot inadvertently make changes to key parameters. UV WinLab ES™ goes further, including multi-level user permissions and comprehensive audit trails and electronic signature points in a stringent controlled working environment.

Your worldwide partner for support

With OneSource™ Laboratory Services, you’ve got the power of PerkinElmer on your side. Our OneSource solutions are focused on customer value creation through improving instrument performance, increasing uptime/efficiency and driving lab productivity. OneSource offerings include:

- Expert Support and Service
- Instrument Care and Upgrades
- Validation
- Education and Training
- Partnerships

Global capabilities for rapid response

An industry leader in service, PerkinElmer offers technical and support services in more than 125 countries, with a team of over 1,000 factory-trained service professionals. With global processes such as the ALERT network and global parts distribution, your service engineer will know the service history of your instruments and the methods you are running, providing you with the most effective and responsive service in the industry.

Application expertise and support

PerkinElmer has more UV/Vis product specialists than any other instrument manufacturer, offering superior UV/Vis/NIR and UV/Vis application support. Our extensive industry knowledge and depth of our support staff assures you of a rapid solution to any problem. For the full range of PerkinElmer OneSource service and support offerings visit us at www.perkinelmer.com/onesource

Preventing downtime with on-demand service when you need it

With PerkinElmer’s OneSource™ Service Plans, you are assured of rapid response to your instrument repair request. Call 1 (800) 250-6070 ext. 800* to arrange a FREE CONSULTATION with a PerkinElmer LAMBDA™ specialist, or e-mail us: lambda@perkinelmer.com

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LAMBDA: backed by a network of accessible service engineers – worldwide

Ask your PerkinElmer LAMBDA™ sales specialist for a demo of UV WinLab software.
PerkinElmer, Inc. is a global technology leader focused in the following businesses – Life and Analytical Sciences, Optoelectronics, and Fluid Sciences. A $1 billion market leader, the Life and Analytical Sciences division serves a large number of industries, including the academic research, biotechnology, clinical screening, pharmaceutical, environmental, forensic, petrochemical and semiconductor segments.

Our instruments and related software and customer support programs, including our OneSource™ team of over 1,000 factory-trained service professionals deployed in over 125 countries, help our customers to enhance research productivity, meet strict regulatory requirements, improve time-to-market, and increase manufacturing efficiencies.

Preferred for years by laboratories worldwide, the LAMBDA™ Series is the premier range of high-performance UV/Vis/NIR and UV/Vis spectrophotometers, providing accurate, stable and repeatable results. All three models share the same high-performance optical bench, allowing each one to use the same array of intelligent sampling accessories. For sampling flexibility, ease-of-use and superior data quality, the PerkinElmer LAMBDA 950/850/650 Series spectrophotometers are the industry-standard for excellence.

**LAMBDA UV/Vis/NIR and UV/Vis spectrophotometers: powered by PerkinElmer**

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**The PerkinElmer LAMBDA Advantage**

- **MISSION-CRITICAL PERFORMANCE**
- For almost 50 years, PerkinElmer has been an industry leader in UV/Vis and NIR instrumentation, and continues to set bench marks with the innovative LAMBDA Series.

- **ENHANCED FLEXIBILITY**
- Thanks to intelligent design features like snap-in modules, dual compartments and more, PerkinElmer makes the LAMBDA Series industry’s lowest sampling setup time.

- **POWER IN UV/Vis™ SOFTWARE**
- The LAMBDA Series offers multiple options and the flexibility to create a customized optical system to handle any task. The consistent and flexible approach reduces the time-consuming complexity of challenging analyses.

- **SOFTWARE PERFORMANCE**
- Updated software “works the way you do” by mimicking laboratory workflow and offering the tools and enhanced security you need to meet all of your analytical challenges and data requirements.

- **PREMIUM SERVICE – “GO-TO” SUPPORT**
- PerkinElmer is the only major life and analytical sciences manufacturer to have a dedicated service business – OneSource™ Laboratory Services.