More accessories for maximum versatility

The LAMBDA 750 is designed to provide the maximum sampling flexibility for tough samples in chemistry, biochemistry and materials science. The system is ideal for a busy research or teaching laboratory, as accessories and detector module can quickly and easily be interchanged to provide the optimum configuration for each measurement. For industrial applications, the design of the LAMBDA 750 and its accessories maximizes productivity through simple design which minimizes adjustment and maintenance critical performance at the highest level.

- A range of single and multi-cell Peltier accessories
- Turbid and cloudy liquids and suspensions, including proteins, and nucleic acids
- Tackles difficult liquid samples with ease through cells and micro and semi-micro cells.
- Powerful range of accessories simplifies analysis of solids
- Powder analysis is easily accomplished using the sensitive LAMBDA 750, which can make highly accurate measurements up to 6 Absorbance units.
- DNA, proteins and blood are handled with ease by our range of easy-to-use, robust accessories, such as holders, cuvets and microplates.
- Fine holders allow transmittance measurements of powdered polymers and coatings.
- Specular, diffuse and total reflectance measurements using the 60 mm integrating sphere, allow rapid analysis of continuous solids such as glass, textiles, polymers and coated surfaces.
- A range of simple fixed and variable-angle solid sample holders allow transmittance measurements of materials such as glass, polymer films and filters.
- For relative and absolute reflectance measurements on mirrors, optics and thin-film coatings, choose from our range of easy-to-use, robust accessories, such as the fixed-angle V-N series and variable-angle options.

UV WinLab Software — powerful, flexible and secure

PerkinElmer’s powerful UV WinLab™ software helps you to be as productive as possible, guiding you through method development, analysis of results and reporting in a series of simple steps. UV WinLab software offers a comprehensive instrument setup with all parameters and settings available at a glance, and a comprehensive range of data collection modes to provide maximum applications flexibility. Results are stored in a secure database, protecting your valuable experimental data and enabling powerful search and trending functions to aid review and retrieval of results. For regulated industries, the software is also available in an Enhanced Security (ES) 21 CFR Part 11 compliant version.

Thorough instrument performance validation

UV WinLab contains a full-suite of over 20 performance evaluation tools to provide a convenient way to check and monitor the performance level of your LAMBDA 750.

The new LAMBDA™ 750 UV/Vis/NIR spectrophotometer from PerkinElmer
More accessories for maximum versatility
The LAMBDA 750 is designed to provide the maximum sampling flexibility for tough samples in chemistry, biochemistry and materials science. The system is ideal for a busy research or teaching laboratory, as accessories and detector modules can quickly and easily be interchanged to provide the optimum configuration for each measurement. For industrial applications, the design of the LAMBDA 750 and its accessories maximizes productivity through simple design which minimizes adjustment and maintains critical performance at the highest level.

- A range of single and multi-cell Peltier accessories
- A choice of cell-changers and autosamplers speed
- Tackles difficult liquid samples with ease
- Highest level of performance is maintained, adjustment and maintenance at the highest level.

Tackles difficult liquid samples with ease:
- Turbid and cloudy liquids and suspensions, including:
- The LAMBDA 750 and its accessories maximizes productivity through simple design which minimizes adjustment and maintains critical performance at the highest level.

The PTP 6+6 Research Peltier system provides precise and rapid thermostatting for biological and chemical samples. It ensures precise and rapid thermostatting for biological samples with the sensitive LAMBDA 750, which can make highly accurate measurements up to 6 Absorbance units.

The 60 mm integrating sphere for reflectance and transmission:
- For relative and absolute reflectance measurements
- A range of fixed and variable-angle solid samplers
- Specular, diffuse and total reflectance measurements
- For relative and absolute reflectance measurements on mirrors, optics and thin-film coatings, choose from our range of easy-to-use, robust accessories, such as fixed-angle V-N series and variable-angle options.

Powerful range of accessories simplifies analysis of solids:
- Powder analysis is easily accomplished using the 60 mm integrating sphere, allowing rapid analysis of continuous solids such as glass, textiles, polymers and coated surfaces.
- A range of simple fixed and variable-angle solid sample holders allow transmission measurements of materials such as glass, polymer films and filters.

Powerful range of accessories simplifies analysis of solids:
- A huge choice of cells and sample holders allows virtually any liquid sample to be measured. Options include length-change, cell, test-tube holders, flow-through cells and micro and semi-micro cells.

Thorough instrument performance validation:
- Powerful spectral processing
- UV WinLab software – powerful, flexible and secure
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Data Collection Modes:
- Wavelength program
- Quant and Quantitative Analysis on discrete wavelengths
- Scanning Quant peaks or full spectra
- Wavelength Scan
- Full or partial range spectral characterization
- Quanti and QuantiQuant
- Qualitative Analysis on discrete wavelengths
- Time-Drive Kinetics, including general and enzyme kinetics
- Wavelength program
- Total measurement at single or multiple discrete wavelengths
- Qualitative Analysis mode monitors actually any application.

For a number of key application areas including glass and color modules, a range of software modules is available to allow deeper investigation of your sample using built-in industry standard protocols.

Application Expertise, Service and Support:
- Our comprehensive industry knowledge and depth of our support staff assures you of a rapid solution to any problem.
- PerkinElmer also offers technical and support services in more than 125 countries, with a team of over 300 factory-trained service professionals.

For a complete listing of our global offices, visit www.perkinelmer.com/lasoffices

For more information on our Peltier system, please contact your local PerkinElmer representative.

The new LAMBDA™ 750 UV/Vis/NIR spectrophotometer from PerkinElmer

Delivering superior data quality for chemistry and materials science applications
the LAMBDA 750: accurate, reproducible, results from your toughest samples

PerkinElmer’s LAMBDA™ 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 industry and academia. We are pleased to introduce our newest addition to the LAMBDA series, the LAMBDA 750 and 750S models which were designed specifically for chemistry and materials science applications. The LAMBDA 750 and 750S provide an affordable system that is optimized for the analysis of tough liquid and solid samples in industry and academic labs.

The new LAMBDA 750 and 750S feature:

• True double-beam, double-monochromator design provides unrivaled performance, high accuracy and low stray-light performance.
• The LAMBDA 750 features unmatched polarization capability, making it easy to configure the system for optimum results for any sample or sampling accessory with ease. The primary compartment is used for a wide range of cell-holders, reflectance and transmission accessories, while the second can be configured with a choice of snap-in modules. Modules can be interchanged rapidly, making it easy to configure the system for optimum results for any sample type. There is also plenty of room for custom sample cells or accessories, if you have special experimental requirements.

Another PerkinElmer exclusive LAMBDA 750 features 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 single samples with polarized light.
• Compatible with transmission and reflectance measurements.

inside the LAMBDA 750 rugged, proven technology from the market leader

Twice the flexibility with two sampling compartments

Two large sample compartments accommodate virtually any sample or sampling accessory with ease. The primary compartment is used for a wide range of cell-holders, reflectance and transmission accessories, while the second can be configured with a choice of swap-in transmission detectors or 60 mm integrating sphere modules. Modules can be interchanged rapidly, making it easy to configure the system for optimum results for any sample type. There is also plenty of room for custom sample cells or accessories, if you have special experimental requirements.

DETECTOR & TUNING
ULTRA-LIGHT COLUMN
Prealigned and prefocused for quick and easy replacement.

DOUBLE HOLOGRAPHIC ENCODER W/RING HUBS
For ultra-low stray light performance and high accuracy.

COMMON BEAM RISE
Allows precise adjustment of the beam height to match sample of different dimensions.

COMMON BEAM DEPOLARIZER (optional) Corrects for instrument bias.

CHOPPER
Slices between sample and reference beam. Non-Keplerian design provides individual beam readings for sample and reference, increasing measurement accuracy.

EXTENDABLE SAMPLE HOUSING
for samples and reference beam positions, accommodating a large selection of up to 15 mm modules. Fully adjustable in vertical and horizontal directions.

LARGEST SAMPLE COMPARTMENT IN THE INDUSTRY
allows more choice in a wide variety of samples.

HIGH-SENSITIVITY RUBIDIUM-FLUORIDE AND TUNGSTEN-HALOGEN LIGHT SOURCES
provides high accuracy and reproducibility in all integrating sphere measurements.

SECURITY SAMPLING AREA
 superintendent security module in both transmission and reflectance. The fume-free fume super-module provides the highest accuracy and reproducibility in all integrating sphere measurements.

CONTACT AN ANALYTICS EXPERT
The LAMBDA 750 needs to be a standard laboratory bench, making the best use of available space and allowing convenient operation for all users.

www.perkinelmer.com
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• Extension of the measurement range into the Near-IR region of the spectrum provides richer and complementary spectral information for many compounds and materials.
• Unit-size competitive floor-mounted instruments, the LAMBDA 750 and 750S are designed to fit into a standard bench-top, optimizing the use of space in your lab.
• Insensitive to run – for example the twin deuterium and tungsten halogen source lamps are pre-aligned for quick and easy replacement, and do not require a service visit.

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PerkinElmer’s LAMBDA™ UV-Vis/NIR and UV-Vis spectrophotometers have consistently offered broad-class accuracy, precision and reproducibility to scientists for nearly 10 years. For sampling flexibility and superior reliability, our instruments have become the standard in thousands of laboratories, in industry and academia. We are pleased to introduce our newest addition to the LAMBDA series, the LAMBDA 750 and 750S models which were designed specifically for chemistry and materials science applications. The LAMBDA 750 and 750S provide an affordable system that is optimized for the analysis of tough liquid and solid samples in industry and academic labs.

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• Unlike some competitive floor-mounted instruments, the LAMBDA 750 and 750S are designed to fit onto a standard bench-top, optimizing the use of space in your lab.

• Inexpensive to run – for example the twin deuterium lamp design offers robustness and reliability.

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Data Collection Mode Ideal For

- Wavelength Scan Full or partial range spectral characterization
- Quant and Quantitative Analysis on discrete points or full spectrum
- Time-Drive Kinetics, including general and enzyme kinetics
- Reflectance program Rapid measurement at single or multiple discrete wavelengths
- A full suite of software modules are actually an application

Thorough instrument performance validation

UV WinLab contains a full suite of over 20 instrument performance validation (IPV) tests to provide a convenient way to check and monitor the performance level of your LAMBDA 750.

- This high-performance system satisfies all validation requirements as outlined by AACC, AOAC, AOCS, and AOCS
- Accurate and fast data collection and analysis
- More accessories for maximum versatility

- A full suite of software modules is actually an application