GREATER VERSATILITY

HIGHER PERFORMANCE

LAMBDA® 365+ UV/Vis Spectrophotometer

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Science with Purpose

Achieve More with LAMBDA 365+

The **LAMBDA 365+ UV/Vis Spectrophotometer** delivers unmatched versatility, performance, and scalability for diverse analytical challenges. With intuitive software, over 20 sampling accessories, autosampler, and dissolution integration, the LAMBDA 365+ services a vast range of markets, with applications including pharmaceutical, academic, environmental, industrial, and food analysis.

With its superior photometric accuracy, wavelength reproducibility, and baseline flatness, the LAMBDA 365+ ensures reliability in every run. Configurable with software packages such as our 21 CFR Part 11 compliant enhanced security package, it eliminates validation headaches with integrated security and audit trails, ensuring users meet their requirements across the board.

Available in several configurations to fit your analytical needs, the LAMBDA 365+ enables your lab to work smarter while delivering reliable results that drive scientific excellence.

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Adaptable Solutions to Meet Every Need

The LAMBDA 365+'s client-server architecture standardizes methods and centralizes data organization-wide. With support for extensive accessories and consumables, users can tackle diverse applications, even with intuitive touchscreen workflows—helping your lab work smarter while delivering reliable results that drive scientific excellence.

Explore our system variations below:

- **LAMBDA 365+ (PC Version)** – The benchmark for UV/Vis analysis, offering a high performance solution in conjunction with tried and tested UVWinLab™ software. Available with both standard and enhanced security software.
- **LAMBDA 365+ Touch** – Achieve the same high-performance with smaller bench space requirements and an intuitive touch interface.
- **LAMBDA 365+ Touch ES** – All the benefits of a touchscreen system with added security features to comply with regulated environments.
- **LAMBDA 365+ Pharma Bundles** – For pharmaceutical QA/QC, PerkinElmer's LAMBDA bundles offer a high-performance instrument, validation and installation support in one simple package.

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Performance for Any and All Applications

The **LAMBDA 365+** offers the performance specifications and features to tackle even the most difficult analytical challenges:

- Low stray light and high absorbance capabilities to fulfill the requirements of major pharmacopoeia tests including USP, EP and JP
- Standard and enhanced security touchscreen versions for implementing intuitive workflows and reducing bench space requirements
- Wavelength reproducibility and baseline stability that provides unmatched confidence in analytical results
- Reduce setup time and effort with self-aligning 'plug-and-play' accessories
- Built-in autosampler compatibility for high-throughput applications

Key Specifications	
Wavelength Range	190 – 1100 nm
Absorbance Range	± 4A
Bandwidth	Variable – 0.5, 1, 2, 5, 20 nm
Wavelength Accuracy	± 0.1 nm (656.1 nm D2)
Wavelength Reproducibility	≤ 0.05 nm
Photometric Accuracy	± 0.002A (0.5A) ± 0.003A (1.0A) ± 0.005A (2.0A)
Photometric Repeatability	<0.0001A (0.5A) <0.0001A (1.0A) <0.0003A (2.0A)
Baseline Flatness	± 0.0005A
Scan Speeds	7.5 to 12,000 nm/min
Stray Light	< 0.5% (198 nm KCl) < 0.01% (220 nm NaCl) < 0.01% (340 nm, 370nm $NaNO_2$) < 1.0% (300 nm Acetone)

Read the LAMBDA 365+ Specifications Sheet

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The Right Accessories for All Your Sampling Needs

The modular, flexible **LAMBDA 365+ UV/Vis Spectrophotometer** can be integrated with over 20 accessories that fit the type of samples your analysis requires. Most accessories snap right in – no tools necessary – and calibrate automatically, so everyone in your lab can be productive right from the start.

With **LAMBDA 365+**, you can expect:

- Plug-and-play accessories for maximum productivity
- Precision-engineered autosamplers to meet all your throughput needs
- Wider sample compartments to accommodate more sample types

Fixed-Angle Reflectance Holder

Designed for measuring specular reflectance spectra at a fixed angle

Autosipper Accessory

Sipper system with complete software control for automation of liquid sampling, including sample flow

Water-Jacketed Single-Cell Holder with Stirrer

Software-recognized accessory with internal stirring functions for sample and reference positions

Auto-Peltier Controller

Comes with internal liquid-cooling system and N2 purge-gas capability, plus magnetic stirrer control

S20 Autosampler Series

Available as the S23 (max 270 samples) or S25 (max 450 samples). Used to automate measurement of liquid samples.

Advanced Transmission Holder

Used for measuring the transmittance of films, glass, plate, and so on, with adjustable fixing arms for samples of varying thicknesses

Variable-Pathlength Cuvette Holder

An easy-to-install accessory for rectangular cells of different pathlengths

Water-Jacketed Microcell Holder with Stirrer

Software-recognized accessory with internal stirring functions for sample and reference positions, used with a water circulator

Cylindrical Cell Holder

Used for measuring the transmittance of cylindrically shaped samples

Integrating Sphere

Dual 50mm integrating sphere used for diffuse transmission and reflectance measurements

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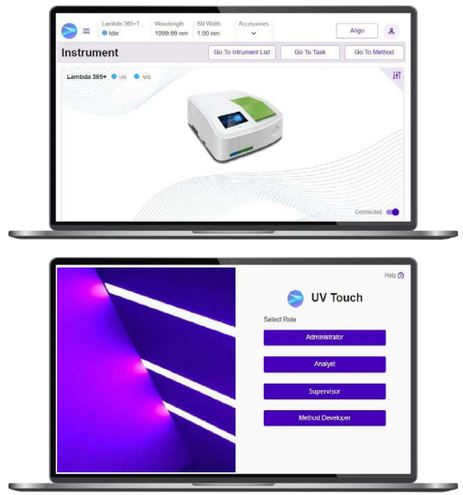
Empowering Research, Enforcing Compliance

From intuitive color analysis workflows to multiple-instrument pharmaceutical QA/QC laboratories, PerkinElmer has a software solution to fit your needs. Fulfill any application with ease using UVWinLab, Spectrum UV and third-party software solutions such as BLStudio.

UVWinLab

Available as a standard or enhanced security (ES) package, UVWinLab offers powerful method development, data analysis tools and autosampler control integration for high-throughput laboratories. As well as UVWinLab ES for regulated pharmaceutical environments, PerkinElmer also offers a number of software modules for specific analyses:

- **Color Methods Software** – Includes calculations required to comply with all major CIE, ASTM, DIN and ISO color standards
- **Architectural Glass Software** – Methods for measurement of light, solar, UVA and UVB properties of different types of architectural glass
- **Protection Glass Software** – Includes industry standard calculations required for measurement of personal and industrial eye protection
- **Filter Testing Software** – Used for the evaluation of optical filters including bandpass and non-bandpass calculations



Spectrum UV

PerkinElmer's new client-server software, optimized for touch screen operation. For 21CFR part 11 regulated environments, Spectrum UV ES offers simplified compliance as standard without the need for extra bolt-ons. The client-server software allows for centralized data storage and ensures method consistency across instruments.

BLStudio

For analyses requiring an intuitive user interface and streamlined workflows, BLStudio provides an alternative software for UV/Vis analysis and results reporting. Offering a clear, customizable user interface, BLStudio is also a great solution for analysis using a touchscreen.

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KEY MARKETS

Pharmaceuticals

Pharmaceutical labs need the flexibility to perform a wide range of analyses, from analytical method development for QA/QC to basic research into new drug candidates to dissolution testing. The LAMBDA 365+ shines in all these applications – and it's 21 CFR Part 11 compliant to meet your most stringent government and industry regulations.

Applications Include:

- USP method compliance
- Solvent analysis
- Quantification of DNA and proteins
- DNA melting experiments
- Enzyme kinetics
- Biomolecule and biomedical implant characterization

APPLICATIONS & RESOURCES

Read about Monitoring of Protein Folding and Unfolding.

Read about RNA Quantification.

Read about Pharmaceutical Assay and Multicomponent Analysis.

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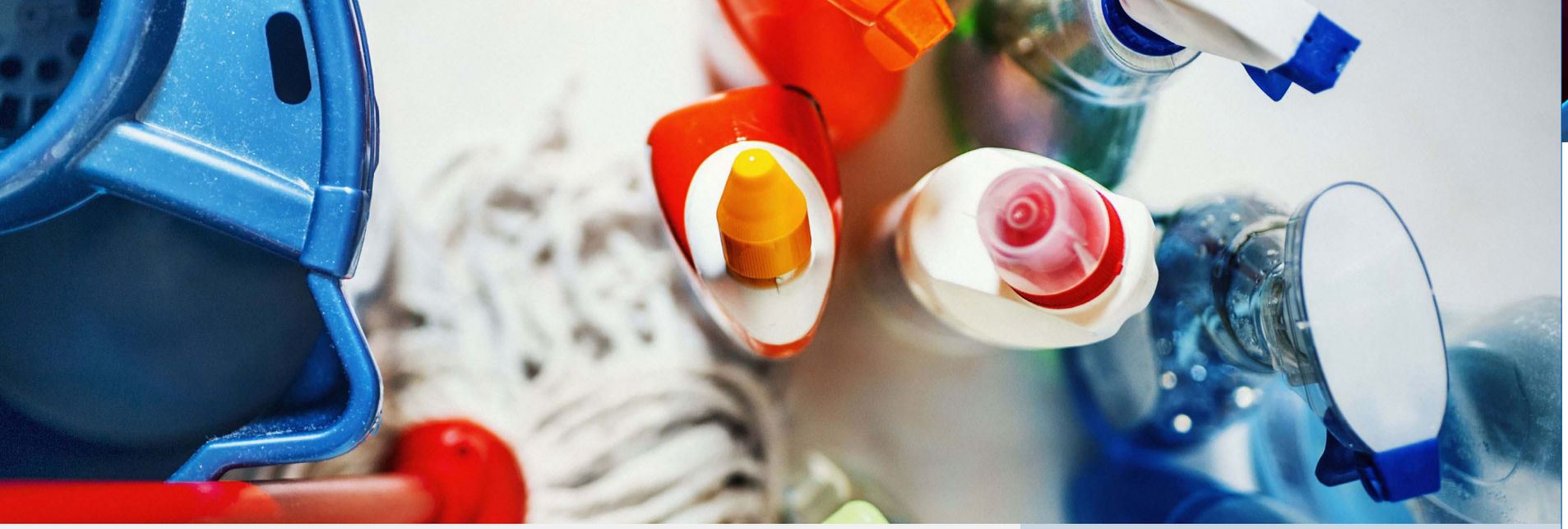

KEY MARKETS

Chemicals & Coolants

With the LAMBDA 365+ UV/Vis, you can monitor concentration changes of reactants to better understand rapid chemical processes and gain deeper insights into reaction kinetics, at exceptional scan speeds.

The LAMBDA 365+ helps chemical manufacturers to identify, characterize, and quantify their samples to improve formulations and develop better performing products.

Examples Include:

- **NaClO:** LAMBDA 365+ provides simple and fast QA/QC results for NaClO analysis in as little as 30 seconds, using only a single reagent.
- **In-service lubricants and coolants:** the LAMBDA 365+ provides simple and fast nitrites analysis.

Chemical Lab Benefits:

- Automation options, including an autosipper and autosamplers
- Touchscreen operation (with LAMBDA 365+ Touch models)
- Built-in methods for fast workflow setup
- Large sample compartment for easy routing of flow cell tubing or manual sample changing
- Low maintenance – and greater confidence in instrument operation

APPLICATIONS & RESOURCES

Read more about the Quantification of Sodium Hypochlorite in Disinfectants.

Read about the Determination of Nitrite Levels in Engine Coolant.

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KEY MARKETS

Water

Drinking water analysis starts with confidence – and our established workflow solutions ensure you get accurate, timely results, day after day. With faster turnarounds – and lab technician turnover – adding to your challenges, these simple, effective solutions instill a high level of confidence in your lab and help ensure your communities' water supplies are safe and unadulterated. Our LAMBDA 365+ UV/Vis spectrophotometer is the perfect solution for a whole range of water analysis challenges, including:

- Quantitative analysis of chemical oxygen demand (COD)
- Determination of nitrates, orthophosphate, and iron, using the ascorbic acid method for iron, the brucine method for nitrate-nitrogen, and more

APPLICATIONS & RESOURCES

Read about Analysis of Nitrite in Water.

Read about Analysis of Hexavalent Chromium in Water.

Read about the Precise Measurement of Iron in Water.

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KEY MARKETS

Food & Beverage

Feed- and food-processing plants need quick, accurate, reliable ways to monitor ingredient quality, from incoming raw materials to finished products. Our LAMBDA 365+ system is the flexible, simple analytical solution for identification of key characteristics in foods. For example, it's ideal for analysis of:

- Brix/sugar in juices
- Ethanol, tannins, and sulfites in wines
- Olive oil acidity levels, for classification (olive pomace to extra virgin)
- Palm oil, to measure bleachability

The system is also perfect for more advanced methods that address food authenticity, provenance, and adulteration, including:

- Pomegranate juice adulteration (color changes and absence of antioxidants)
- Distilled spirits adulteration (water, ethanol, or methanol)
- Olive oil purity and degree of oxidation

APPLICATIONS & RESOURCES

Read about Wine Color and Polyphenol Content Analysis.

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Service and Qualification

OneSource Laboratory Solutions

A UV/Vis spectrophotometer represents an important investment in your analytical capabilities. PerkinElmer's comprehensive service portfolio ensures both successful installation of your new spectrophotometer, as well as ensuring this instrument delivers consistent, reliable results throughout its operational lifetime while also maintaining regulatory compliance. From simple yearly service contracts to global laboratory scientific asset management with PerkinElmer's **OneSource®** service, there is a support solution for every laboratory.

Instrument Qualification

Depending on the final application, various types of instrument and operational qualification are required. In a regulated pharmaceutical environment, an instrumental qualification (IQ), operational qualification (OQ) and universal operational qualification (UOQ) is required to ensure initial and ongoing compliance with pharmacopeia including USP, EP and JP. With the PerkinElmer LAMBDA 365+ pharmaceutical bundles, the instrument, enhanced security software and all necessary qualifications can be purchased as one dedicated package.

For users outside of a regulated pharmaceutical environment, universal performance verification can be used to ensure instruments maintain the highest level of reliability throughout their operational lifetime.

Part Number	Description	Parts Included
N4100053	LAMBDA 365+ Full Pharmaceutical Bundle (Letter)	■ LAMBDA 365+ (PC Version) ■ UVWinLab ES Software ■ IQ/OQ (Letter) ■ UOQ ■ UIQ
N4100054	LAMBDA 365+ Full Pharmaceutical Bundle (A4)	■ LAMBDA 365+ (PC Version) ■ UVWinLab ES Software ■ IQ/OQ (A4) ■ UOQ ■ UIQ
N4100052	LAMBDA 365+ Partial Pharmaceutical Bundle (Letter)	■ LAMBDA 365+ (PC Version) ■ UVWinLab ES Software ■ IQ/OQ (Letter)
N4100051	LAMBDA 365+ Partial Pharmaceutical Bundle (A4)	■ LAMBDA 365+ (PC Version) ■ UVWinLab ES Software ■ IQ/OQ (Letter)

N4100052 and N4100051 do not offer compliance in laboratories where products may ultimately be sold in the US, Europe, Canada or Japan.

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For more information visit www.perkinelmer.com/LAMBDA365plus

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