

Press Release



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New UV-1900 UV-Vis Spectrophotometer

Industry's fastest level scan function and LabSolutions UV-Vis control software

High-accuracy quantitative analysis in regulated environments /

Proven excellent spectroscopic capabilities from high-end models /

Compliant with the pharmacopeia of various countries incl. FDA 21 CFR Part 11

Celebrating this year the 50th anniversary of its presence in Europe, Shimadzu emphasizes its Excellence in Science approach through the release of the new UV-1900 UV-Vis spectrophotometer. The UV-1900 highlights the company's position of a world leader in analytical instrumentation. The spectrophotometer is equipped with an ultrafast scan function that enables data acquisition of 29,000 nm/min (it takes about three seconds to measure in visible region), the fastest level in the industry.

The UV-1900 features a large, easy-to-use color touch panel as well as excellent operability. All functions are directly reachable with large and easy to understand icons. In addition, UV-1900 patented LOW-RAY-LIGH® diffraction grating technology ensures low stray light with high resolution and one of the largest ranges of linearity.

While UV-1900 can be operated as a standalone instrument the new LabSolutions UV-Vis (Shimadzu's UV-Vis control software released simultaneously) expands user possibilities. This software also contributes to data pass/fail judgments via its spectral evaluation functions.

UV-1900 can connect with Shimadzu's analysis data management systems (LabSolutions DB/CS) in order to provide fully integrated data management with other analysis instruments as requested by the different guidelines and regulations relating to electronic records and electronic signatures.

Background to the Development

By detecting ultraviolet and visible light passed through or reflected by samples, UV-Vis spectrophotometers are used mainly to identify and quantify substances. They are applied for research and development and quality control in a wide range of fields. This type of instrument is increasingly popular, and demand for UV-Vis spectrophotometers

continues to expand, even in newly emerging economies. Accordingly, when users select an instrument, they focus on cost effectiveness, operability, compliance with various national regulations and enhanced management functions.

Against this background, the UV-1900 was developed for deployment in an even wider range of regions, including Central and South America. Shimadzu is deploying the UV-1900 worldwide, making the most of the combination with LabSolutions UV-Vis, a control software ideal for quality control and integrated management with other models. Special features of the UV-1900 UV-VIS-NIR Spectrophotometer are:

1. High performance matched to a variety of sample analyses

A newly developed ultrafast scan function enables data acquisition as fast as 29,000 nm/min. By performing repeat measurements, the process of sample changes in chemical reactions can be analyzed in a short time. In addition, the UV-1900 incorporates a low stray light diffraction grating, produced in-house (LOW-RAY-LIGH®). It features excellent spectroscopic capabilities with high resolution and sensitivity. As a result, this instrument is capable of high-accuracy quantitative analysis and the detection of low-concentration components.

2. Intuitive operability regardless of the user

The touch panel is deployed at the ideal viewing angle based on ergonomics. It can also be operated using the stylus pen provided, which can be stored in the unit. Target analyses can be performed with ease due to the intuitive operation.

3. Compatible with various regulations and guidelines including FDA 21 CFR Part 11

This instrument achieves a resolution of 1 nm and can perform analyses compliant with the pharmacopeia of various countries. In addition, connection of the standard control software and optional LabSolutions UV-Vis to a Shimadzu analysis data system (LabSolutions DB/CS) enables performance of integrated data management with all Shimadzu instruments in a laboratory, including chromatographs and infrared spectrophotometers in an environment compatible with FDA 21 CFR Part 11.

Features of the LabSolutions UV-Vis Control Software

The LabSolutions UV-Vis software is intended for frequent users of UV-Vis spectrophotometers in various applications. It is equipped with functions to make data pass/fail judgments in accordance with configured conditions. Data transfer to spreadsheet software and batch text export of multiple data sets are easy, thereby improving work efficiency.

Web summary

Shimadzu has released the new UV-1900 UV-Vis spectrophotometer. It is equipped with an ultrafast scan function that enables data acquisition at the fastest level in the industry. This instrument is capable of high-accuracy quantitative analysis and the detection of low-concentration components. LabSolutions UV-Vis, Shimadzu's UV-Vis control software released simultaneously, contributes to data pass/fail judgments via its spectral evaluation functions.



Figure 1: The new UV-1900 UV-Vis spectrophotometer equipped with an ultrafast scan function that enables data acquisition at the fastest level in the industry. It provides high-accuracy quantitative analysis and the detection of low-concentration components.



Figure 2: UV-1900 easy to use interface on color touchscreen. Six measurement modes are directly accessible: photometric values measurements, spectrum acquisition, quantification measurements, kinetics studies, time course methods and bio methods



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