HORIBA

A validated, powerful software platform for complete instrument control, data acquisition, and analysis for HORIBA's scientific instruments in regulated labs.

https://www.horiba.com/

Overview

The HORIBA Scientific Software suite, exemplified by the LabSpec 6 Spectroscopy Software, is a comprehensive and validated platform designed for the complete control, data acquisition, processing, and analysis of HORIBA's scientific instruments, such as Raman, Photoluminescence (PL), and Cathodoluminescence (CL) spectrometers and microscopes. It is specifically engineered to meet the stringent demands of regulated environments in the biotech and pharmaceutical industries.

Key Benefits & Compliance A major value proposition of the software is its focus on regulatory compliance. LabSpec 6 is a validated software that provides the necessary security and data integrity controls to enable compliant use within regulated laboratory environments, including adherence to **GxP** and the **FDA's 21 CFR Part 11** guidelines. This is critical for quality control, process monitoring, and analytical applications in drug development and manufacturing.

Main Features and Capabilities The software offers a powerful and intuitive interface that guides users through a logical workflow, from sample visualization and measurement setup to final data reporting.

Instrument Control: Provides comprehensive control over all system components, including spectrometers, detectors, and accessories.
Data Acquisition: Supports multi-dimensional datasets, including 1D profiles (time, kinetic, temperature studies), 2D images (XY maps), and 3D cubes (confocal XYZ maps), as well as high-throughput screening.
Advanced Analysis: Includes a full range of data processing and analysis routines, such as baseline correction, peak fitting, linear/non-linear filtering, and powerful multivariate analysis (MVA) techniques like Principal Component Analysis (PCA), Multivariate Curve Resolution (MCR), Hierarchical Cluster Analysis (HCA), and Partial Least Squares (PLS).

Specialized Modules: Optional modules like **ParticleFinder™** enable automated location, characterization, and spectroscopic analysis of particles, which is vital for contaminant detection and quality assurance.
Target Users and Use Cases The software is primarily targeted at researchers, analytical chemists, and quality control professionals in:

Biopharmaceutical and Pharmaceutical Labs: For drug discovery, formulation development, quality control (QC), and Process Analytical Technology (PAT).
Academic and Industrial Research: For advanced materials characterization, protein and biomolecule analysis, and cell culture media monitoring.

Key Features

- Complete Instrument Control
- FDA 21 CFR Part 11 & GxP Compliance Tools
- Multivariate Data Analysis (PCA, PLS, MCR)
- Automated Particle Characterization (ParticleFinder™)
- High-Throughput Screening & Kinetic Studies
- 3D Confocal Volume Display
- Customizable Workflows and Reporting

Pricing

Model: enterprise

Pricing is not publicly disclosed and requires a direct quote from HORIBA Scientific. It is typically sold as a permanent license, often bundled with or as an upgrade for HORIBA's analytical systems. Optional modules are available for purchase.

Target Company Size: medium, enterprise

Integrations

Python, C++, C# (.NET), LabVIEW, ActiveX, Epina ImageLab

Compliance & Certifications

FDA 21 CFR Part 11, GxP