

Spectrally OS

- Offline spectral analysis on the device
- Integrated spectral databases (~28,000 spectra)
- Advanced chemometric modeling

Parameter	Value
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Software platform	Spectrally OS
Manufacturer	Gekko Photonics
Supported techniques	Raman spectroscopy
Supported instruments	Spectrally X1 LAB / PORTABLE / INLINE
Chemometric / predictive models	CNN, PLS, PCA
Spectral database	Proprietary and publicly available spectral databases (~28,000)
Workflow automation	Supported
Communication protocols	PROFIBUS / PROFINET / GSM
Operator interface	SpectrallyUI
Operating system	Debian GNU/Linux 13.2
Automatic calibration	Based on reference signal readings
Data export formats	CSV / PDF / RAW
User management	Role-based access control
Data storage	Local database

TRANSFORMING SPECTRAL DATA INTO INSIGHT

Spectrally OS is a comprehensive software platform designed to control Spectrally Raman analyzers and transform spectral data into actionable chemical insight.

The platform supports laboratory, portable, and inline Raman applications, enabling seamless integration of spectroscopy, chemometrics, and process monitoring within a single environment.

Designed for process engineers and analytical teams, Spectrally OS provides an intuitive workflow for spectral acquisition, model development, and real-time data interpretation.

Whether used for laboratory analysis, field identification, or continuous process monitoring, Spectrally OS ensures reliable, traceable, and efficient Raman data analysis.

RELEASING THE POWER OF SPECTROSCOPY

Spectrally OS combines advanced spectroscopy algorithms with powerful chemometric tools to support modern analytical workflows.

With centralized dashboards, automated workflows, and advanced data visualization tools, Spectrally OS supports efficient operation across laboratory and industrial environments.

