SPECTRO SMART ANALYZER VISION
Version 4

ICP Software from Tomorrow for Maximum Productivity in the Laboratory Today
SPECTRO SMART ANALYZER VISION: The ultimate in flexibility and functionality, and yet still easy to use interface for SPECTRO ICP-OES spectrometers. Providing straightforward and intuitive access to all the functions, simple “one-click” routine operation and customizable views, even non-experts can fully extract and take advantage of the instrument’s unique analytical capabilities with SMART ANALYZER VISION.

Software functions are divided into categories and are linked through a central navigation panel. The user is presented with a clearly designed, self-explanatory screen. Switching between the categories only requires a click of the mouse. Only the relevant functions are visible. Components that are not required can be deactivated with the integrated user manager. The screen presented to the user is always clear and self-explanatory.

– Intuitive-to-use design
– Routine operation with just a few clicks
– Simple method development
– Advanced recalculation of the original measurement data
– Unattended operation with intelligent event control
– Completely compatible with US EPA, CLP and other standards and regulations
– User and data management conforming to US FDA 21 CFR Part 11

The program interface is clear and self-explanatory.
**Analysis View** Start instrument, select method, measure – The Analysis Window is clearly oriented to the practical requirement of quickly completing the daily sample load. All important information is summarized on one screen. Menus, tools and context sensitive menus, are structured so that a fluid and effortless work flow is ensured. Docking windows can be used to provide tailored information output. The customized interface settings can be made user specific and will load automatically based on the user login.

Productivity: While waiting for an analysis it is possible to display and evaluate previous measurements. A specification control function checks that results are within defined limits. Complete spectrum capture allows comprehensive post-analysis data processing. One example of this unique capability is the possibility of recalculating the result to include additional element lines without having to measure the sample again.

**Automation View** Working in the automatic mode with SMART ANALYZER VISION is fast and efficient. The samples to be measured are entered, either manually or automatically, into a sequence list, the sample tray filled and the sequence started. Even complex tasks, like those required for regulatory compliance measurements, can be defined with the integrated event management system. This includes control sample measurements, monitoring of measurement ranges and defined limits, sample dilution, procedures for optimization of the cycle time and any alarm reactions that may be necessary. A script editor and an optional automation client module are available for even more specialized tasks.

**Spectra View** For fully unknown samples, it is helpful to have an overview before an analysis. Questions as to the matrix and the elements contained can be easily answered with the Spectra Viewer. The line identification mode enables a rapid qualitative analysis. Access to stored spectra provides a simple comparison with known samples. A semi-quantitative analysis is also possible. Line and interference libraries provide details as to suitable lines.

*The integrated Spectra Viewer enables the rapid, automatic, semi-quantitative analysis of unknown samples.*
SMART ANALYZER VISION includes performance-boosting proprietary algorithms and measurement techniques like Spline and Smart Background Correction.

**Transient View** Time resolved signals can be measured and processed in the transient measuring mode, making the use of hyphenated techniques like chromatography, or alternative sample introduction methods like laser ablation and electro thermal vaporization (ETV), possible. An optional trigger module can be used to automatically activate a synchronized start of the measurement.

**Method View** Organized into simple palatable segments, method development is conducted step by step. The user is supported and guided through the process with the help of suggested default values, comprehensive databases and reference libraries. Automatic optimization and definition functions provide additional help. An example; the proprietary smart background correction (SBC) module offers additional assistance by automatically modeling the matrix or interference spectrum and subtracting it from the analyte spectrum, resulting in substantially improved recoveries. Even highly structured backgrounds can be corrected for in this way.

New methods can be developed in a very short amount of time. Only method import is faster: This is made possible by ICAL, the intelligent calibration logic that transfers line and background positions together with all the other method settings. All that remains is to re-measure the calibration standards.

**Configuration View** The configuration view is used to set universal parameters and to manage the alarm system, log books and users. The alarm system reacts to various events and notifies preset contacts by e-mail as necessary. The log books make it possible to easily trace events and actions. User management is used to control access to the system and allows individual customization of the program interface.

**Technical Data:**

**Minimum system requirements**
- Windows XP Professional, Windows Vista
- Intel Core 2 Duo, 2.4 GHz, 2 GB RAM
- 80 GByte hard drive
- DVD-ROM/CD-RW optical drive
- Monitor resolution 1024 x 768 Pixel

**SMART ANALYZER VISION** includes performance-boosting proprietary algorithms and measurement techniques like Spline and Smart Background Correction.

**Overview:**

- **Transient View**
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  - An optional trigger module can be used to automatically activate a synchronized start of the measurement.
- **Method View**
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**Quick Facts:**
- **SMART ANALYZER VISION** includes performance-boosting proprietary algorithms and measurement techniques like Spline and Smart Background Correction.
- **Minimum system requirements**
  - Operating System: Windows XP Professional, Windows Vista
  - Processor: Intel Core 2 Duo, 2.4 GHz
  - RAM: 2 GB
  - Hard Drive: 80 GB
  - Optical Drive: DVD-ROM/CD-RW
  - Monitor Resolution: 1024 x 768 Pixel

**Technical Details:**

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