

# EDAX APEX WDS Analysis System

## Product Bulletin – WDS



- Smart Focus fully automates setup, ensuring complete microscope optimization for WDS analysis
- Smart Features ensure consistent data collection, analysis, and reporting regardless of the operator's experience level
- Integrated system offers a seamless transition from EDS to WDS analysis
- Simultaneous EDS and WDS data collection helps to maximize your productivity
- Three-click workflow from the start of analysis to the final report

The EDAX APEX™ wavelength dispersive spectroscopy (WDS) analysis system combines the intuitive workflow of the APEX software platform with the analytical power of WDS to provide the ultimate resolution and trace element analysis to users of all levels. Smart Features in APEX WDS optimize detector setup, automate data collection and fully integrate with APEX energy dispersive x-ray spectroscopy (EDS) to deliver efficient and accurate results to EDAX users.

### Ease of use

- Shortens the workflow from the start of analysis to deconvolution of peak overlaps to three clicks
- Utilizes user profiles with customizable preferences and settings
- Full access and control of advanced-level user settings

### Smart features

- Smart Diagnostics – Monitors and displays the detector parameters to ensure the best data and most accurate results
- AutoWDS – Utilizes the EXpert ID feature to create the scan list for the WDS analysis and automatically perform the peak scans for the elements in the sample
- Smart Focus – Accurately positions the SEM stage at the optic focal plane, guaranteeing the highest intensity levels
- Smart Data Management – Intuitive and flexible data management system keeps your work session organized

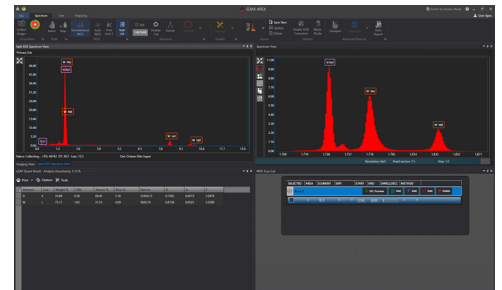


Figure 1. Spectrum collection

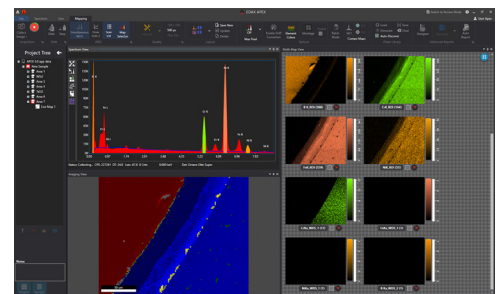


Figure 2. Map collection

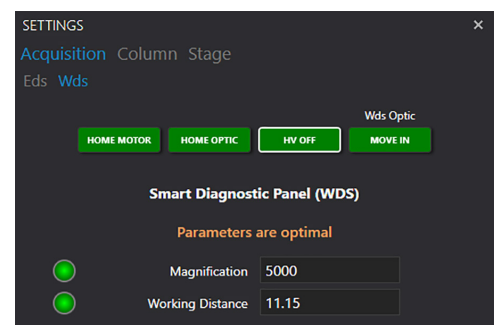


Figure 3. Smart Diagnostics

## Specifications

### APEX WDS Software Suite

- AutoWDS
- Smart Focus
- Smart Diagnostics
- Smart Data Management
- Smart Quant

### WDS detectors

- Compatible with Lambda Plus and Lambda Super spectrometers
- Compact design for easy installation on standard EDS ports
- Total range of operation from 100 eV – 16 keV
- Standard with five diffractors optimized for any application
- Optional extension of range by substitution of diffractor

## Features and benefits

### AutoWDS

- Utilizes the EXpertID results to select the elements for the WDS scan
- Automates spectrometer setup and selection of crystals

### Smart Focus

- Focus routines automate sample positions to ensure it is at the point of maximum intensity for the selected element
- Maximizes ease of use and guarantees best data on the first scan

### Reporting

- Enables you to organize and communicate results efficiently with APEX Reporting in standard Microsoft Office Suite documents and Adobe PDF
- Quick Reports allows you to tailor report content and layout to specific analytical needs
- Customizable analysis templates for advanced and interactive reports

## Conclusion

APEX WDS brings analytical intelligence and ease of use to improve the resolution and trace element capabilities of WDS. As part of the APEX platform, APEX WDS provides the ultimate flexibility to ensure the fastest and most accurate results to solve challenging microanalysis problems.

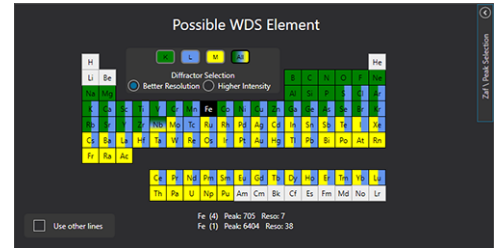


Figure 4. AutoWDS

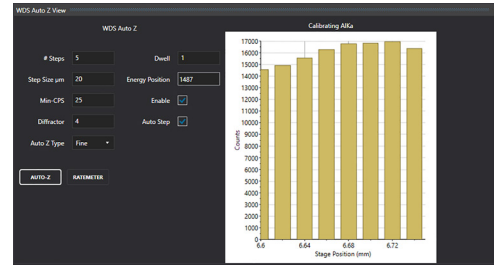


Figure 5. Smart Focus

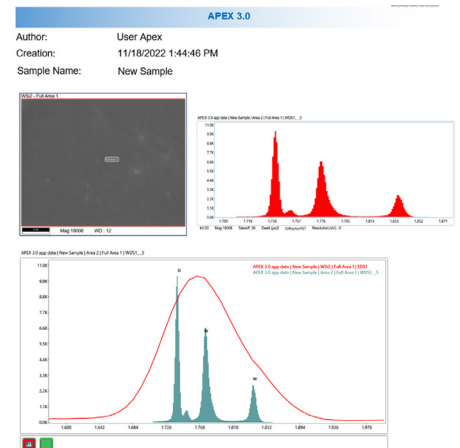


Figure 6. Reporting