

AZtecOne with Xplore 15 for SEM

Routine EDS Analysis System

The AZtecOne system combines the simple-to-use yet powerful AZtecOne software and the proven stability and accuracy of 15mm² Xplore EDS detector.

Includes all the tools required to help you quickly analyse and characterise your sample with confidence and ease. Unique Tru-Q technology ensures that elements are automatically identified and quantified to new levels of accuracy

AZtecOne Software	
Image	✓ (Res up to 2K)
Spectrum Acquisition	✓
X-Ray Mapping	✓ (Res up to 1K)
X-Ray LineScanning	✓ (up to 8K points)
TruMap	Optional

Hardware - Xplore 15 with X1 electronics	
Detector	Xplore
Sensor Size	15mm ²
Detection Range	B(5) to Cf(98)
Resolution	Mn K <129eV@100,000cps
Max. input count rate	>1,000,000 cps
Quantitative count rate	>100,000 cps
Controller	X1 (1 Detector, 2 images)

AZtecOne Software

AZtecOne is designed for users with little or no EDS knowledge or just for those users in a rush. The interface is equipped with simple navigation steps, which are designed to help you perform tasks quickly and easily:

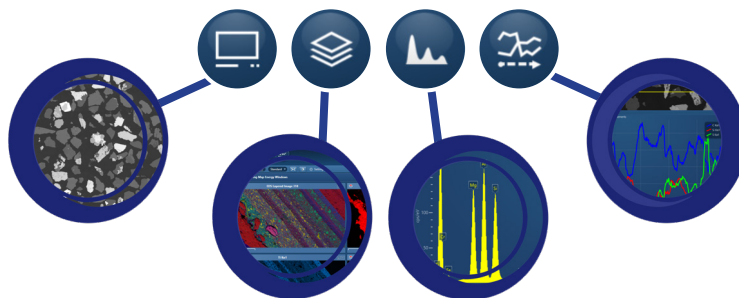
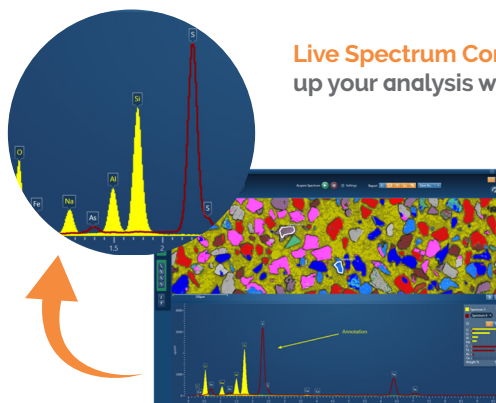


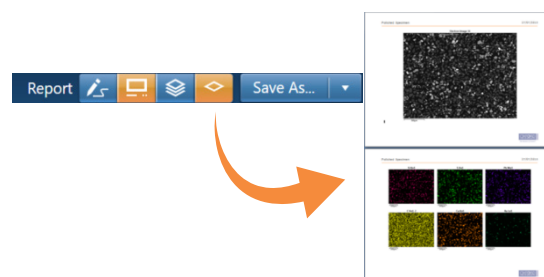
Image | Mapping | Point&ID | LineScanning



Live Spectrum Compare – speed up your analysis with instant results

- No need to wait until acquisition is completed – Quant results shown instantly in the MiniQuant viewer
- Compare a spectrum with a previously acquired spectrum even during acquisition

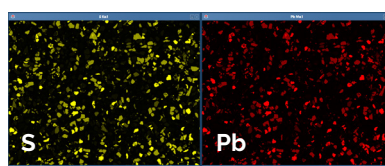
Reporting – Smart content selector means reports can be generated in seconds



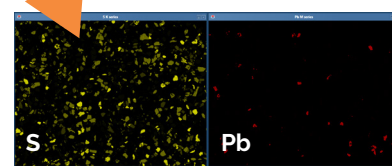
Optional Software:

TruMap – Overlap and background correction helps you see the true distribution of elements in your sample

With normal mapping S and Pb maps look identical, but with TruMap technology the real S and Pb distributions are revealed



Standard X-Ray maps



Overlap corrected maps

Software Comparison Table

DESCRIPTION	AZtecOne	AZtecLiveOne	AZtecLiveLite
Analyser Navigator/Step (Spectrum Acquisition)	✓	✓	✓
Point&ID Navigator/Step (Spectrum Acquisition)	✓	✓	✓
Mapping Navigator/Step (Map Acquisition)	✓	✓	✓
LineScan Navigator/Step (LineScan Acquisition)	✓	✓	✓
LiveSpectrum for AZtecLiveOne with Live Spectrum Viewer (Live chemical analysis)	×	✓	×
LiveMapping for AZtecLiveOne (Live Chemical Imaging)	×	○	×
AZtecOne AutoLock (Drift correction for AZtecLiveOne software)	×	○	×
AZtecLiveStep (Live Chemical Imaging)	×	×	✓
AZtecLiveTrace (Records locations visited during 'Live' analysis)	×	×	○ UPGRADE PACK
Image Registration (use imported image to navigate in microscope) – also works on SEM images	×	×	
AZtec Standardisation Manager (Input users standards)	×	×	
Report Template Editor (Create your own report templates)	×	×	
Custom Mode (Configurable user interface)	×	×	
AZtec AutoLayer (Automatically combine electron image and X-ray maps in a single image)	×	×	○
AZtec TruMap (Overlap and background corrected mapping)	○	○	
AZtec AutoLock (Drift correction for AZtecLive Software)	×	×	
AZtec AutoPhaseMap (Automatic phase analysis)	×	×	
AZtec QuantMap (Quantitative Mapping and Linescanning)	×	×	
AZtec Large Area Mapping	×	×	
AZtec MapQueue (Automated point map acquisitions)	×	×	
AZtecFeature Analysis (Automated Particle Analysis software)	×	×	
AZtecSteel (automated analysis and classification of non-metallic inclusions in steel - Requires MS Office and AZtecFeature)	×	×	
AZtecGSR Package (Gun Shot Residue analysis – requires AZtecFeature)	×	×	
AZtecClean (Measure the Technical cleanliness of components to industrial standards - requires AZtecFeature)	×	×	
AZtecAM (Automated analysis of particles used in Additive Manufacturing – requires AZtecFeature)	×	×	
AZtecMineral - automates the acquisition of EDS data and morphological information from geological materials. The accompanying post-processing application, GrainAnalyser2, includes the option to classify against a database containing >4000 mineral compositions.	×	×	
AZtec LayerProbe (Calculates thicknesses and compositions of multi-layer structures)	×	×	
AZtecLiveOne for AZtecLive (Add AZtecLiveOne functionality to an AZtecLive installation)	×	×	

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