

# Evex Mini-SEM

## Miniature Scanning Electron Microscope



Evex Mini-SEM is a high resolution desktop digital imaging tool that is fast and easy to use. Go from sample insertion to 30,000 x (120,000 digital Zoom) magnification in less than seconds.

Evex Mini-SEM is so easy to operate.

Use it in research to discover next generation materials.

Use it in manufacturing to investigate failures.

Use it in education so you can inspire the next generation of scientists.

Evex  
857 State Road  
Princeton, NJ 08540

609-252-9192 Telephone  
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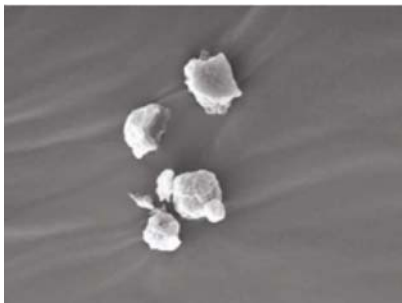
# Evex Mini-SEM

Miniature Scanning Electron Microscope

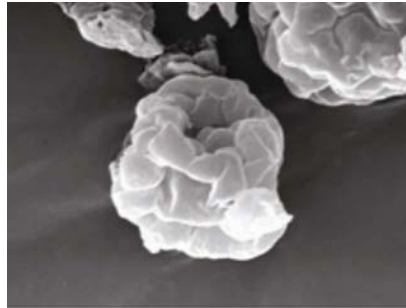
*Super Fast*

*0 to 120,000 - Less Than 2 Minutes*

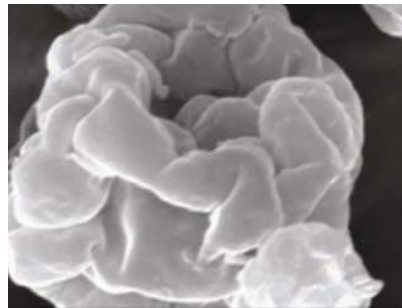
2,000 X



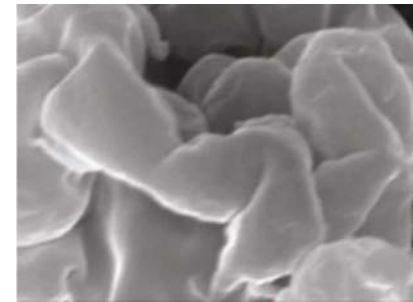
5,000 X



10,000 X



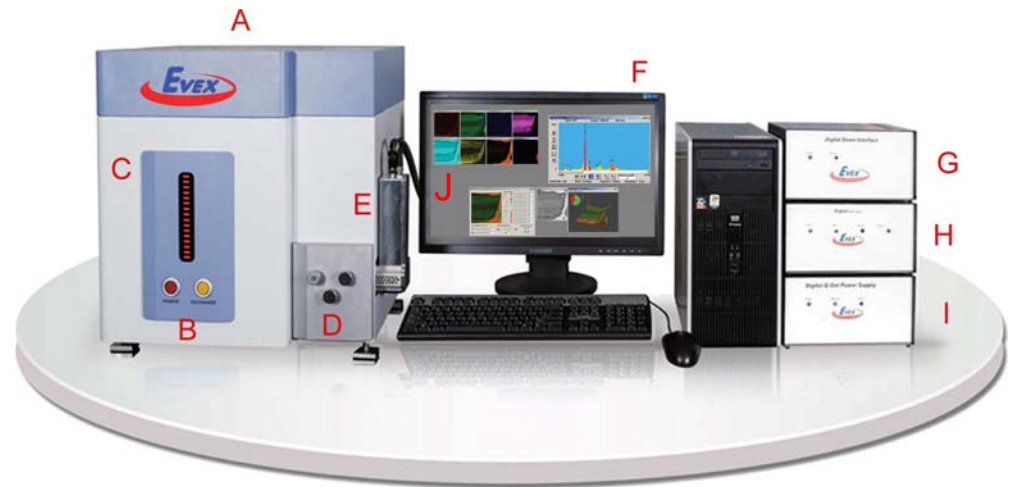
20,000 X



# Evex Mini-SEM

## Miniature Scanning Electron Microscope

- A - Evex Mini-SEM (Scanning Electron Microscope)
- B - Power Button & Sample Exchange Button
- C - Vacuum Level -
- D - Sample Exchange -
  - Chamber Size - 4x4x4
  - Sample Size - 2x2x2
  - Sample Position (X,Y,R)
- E - High Speed -- Liquid Nitrogen Free --- X-ray Detector
  - Detects Elements 4 - 92    \$\$\$\$ (Be - U)    (SSUTW)
  - Detects Elements 5 - 92    \$\$\$ (B - U)    (SUTW)
  - Detects Elements 6 - 92    \$\$ (C - U)    (UTW)
  - Detects Elements 11 - 92    \$ (Na - U)    (TW)
- F - NanoAnalysis - Software
- G - Spectral Acquisition Module - Elemental Composition
- H - Image Acquisition Module - Image
- I - X-ray Detector Power Supply
- J - Elemental Mapping



# Evex NanoAnalysis Features

## Image Acquisition Module

- Image Processing
- Image Analysis
- Image Operations
- Image Filters
- Thermal Imaging
- Image Measurement / Annotation
- Easy Report Writing
- AutoSave

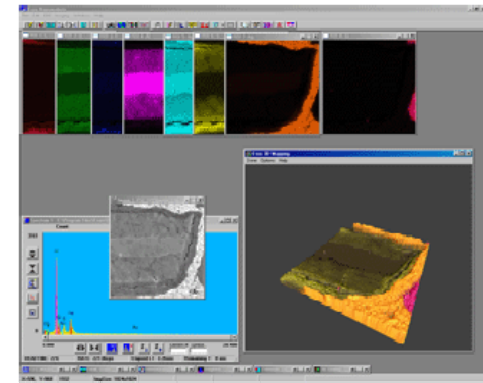


## Spectral Acquisition Module

- Spectral Processing
- Spectral Analysis
- Qualitative Analysis
- Quantitative Analysis
- Monte Carlo Simulation
- Detector Geometry Wizard
- Auto ID with Peak Labeling
- Auto Region of Interest (ROI)
- Automatic Calibration & Logging
- Easy Report Writing
- AutoSave

## Elemental Mapping

- Standard Elemental Mapping
- Ultra Fast Mapping
- Line Scan
- Point Mode & MultiPoint
- AutoAnalysis (Spectra at Every Pixel)
- ColorSEM - Quick Rendering
- Focus Mapping
- Thermal Mapping
- Easy Report Writing
- AutoSave



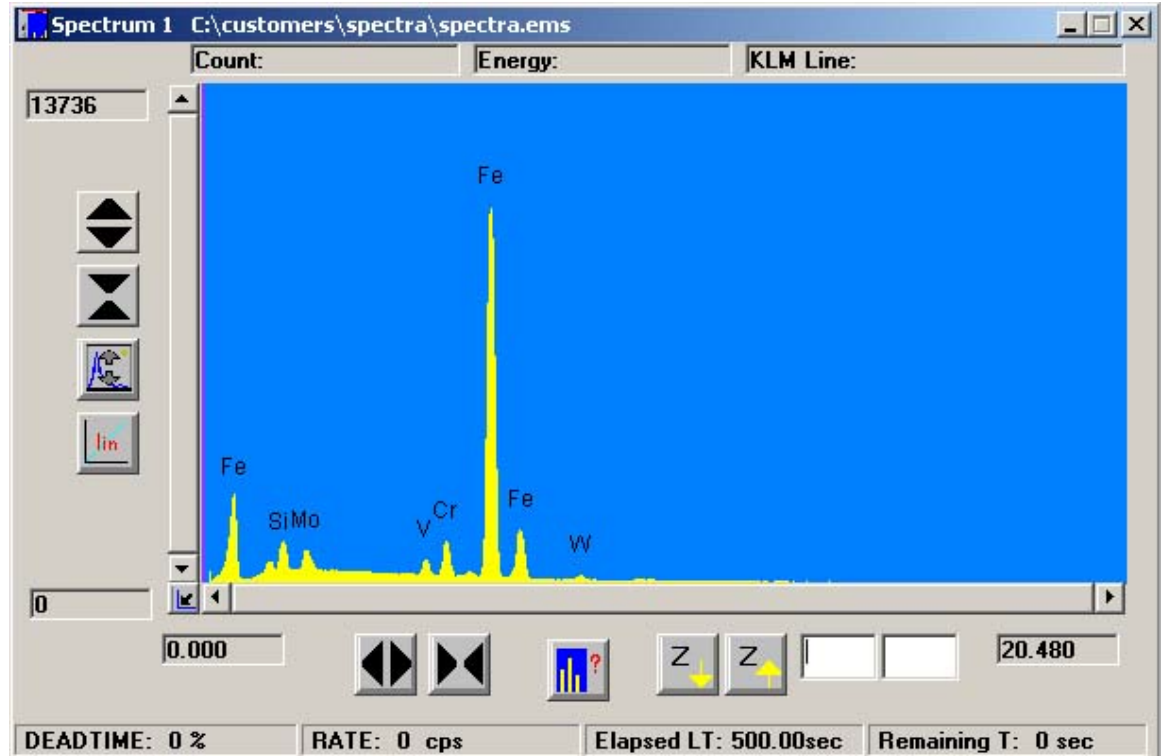
## Advanced Features

- Chemical Typing
- Trace Sensitive Analysis
- Critical Measurement
- 3D Mapping
- 3D Measurement
- AutoAnalysis (Spectra at Every Pixel)
- Remote Conferencing
- Stereo Imaging
- Synchro-Analysis

# Spectral Acquisition Module

## Spectral Acquisition Module

Spectral Processing  
Spectral Analysis - Identification  
Qualitative Analysis  
Quantitative Analysis  
Monte Carlo Simulation  
Detector Geometry Wizard  
Auto ID with Peak Labeling  
Auto Region of Interest (ROI)  
Automatic Calibration & Logging  
Easy Report Writing  
AutoSave



# Image Acquisition Module

## Image Acquisition Module - Advanced

Image Processing

Image Analysis

Image Operations

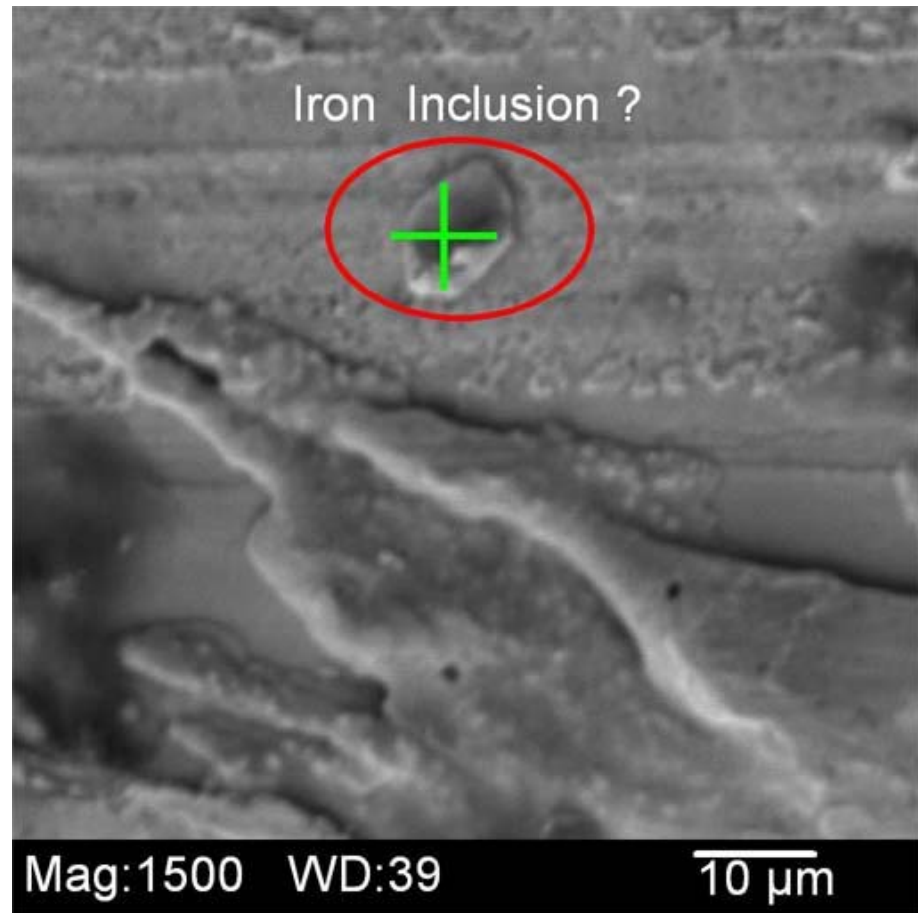
Image Filters

Thermal Imaging

Image Measurement / Annotation

Easy Report Writing

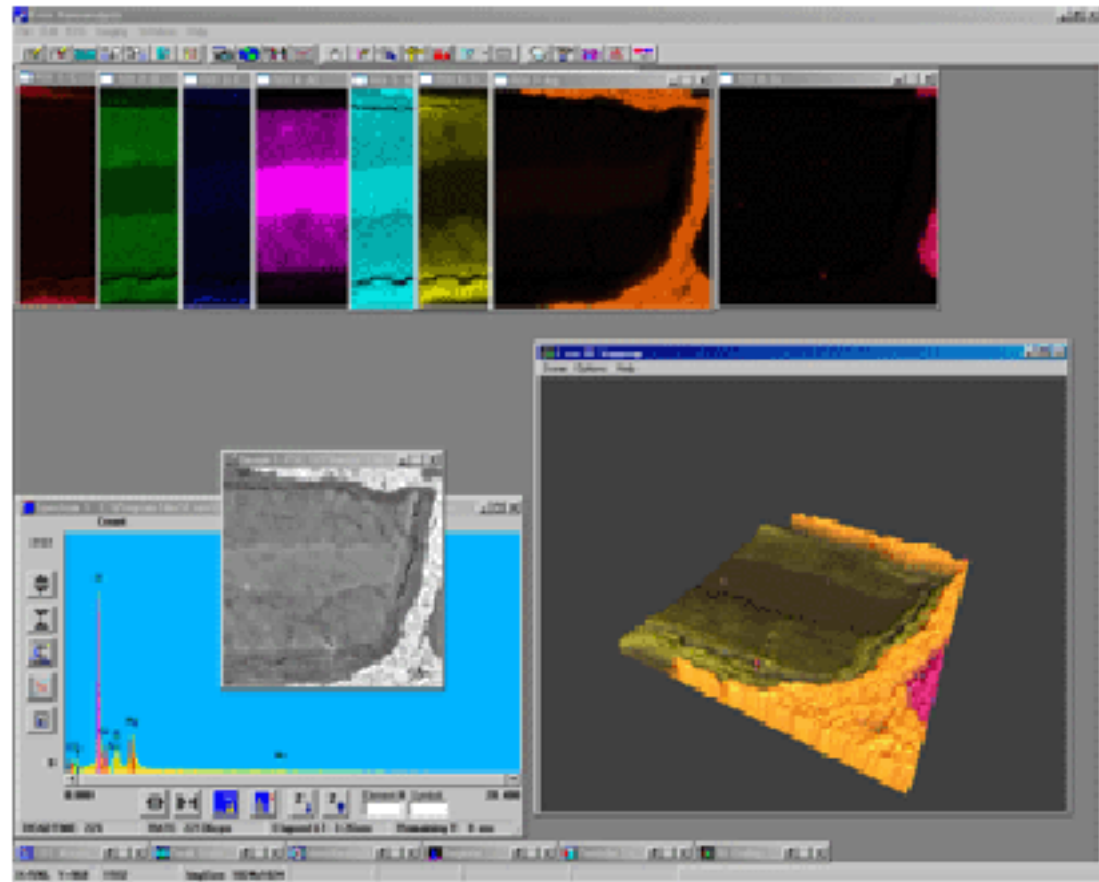
AutoSave



# Elemental Mapping Module

## Elemental Mapping

- Standard Elemental Mapping
- Ultra Fast Mapping
- Line Scan
- Point Mode & MultiPoint
- AutoAnalysis (Spectra at Every Pixel)
- ColorSEM - Quick Rendering
- Focus Mapping
- Thermal Mapping
- Easy Report Writing
- AutoSave



Map the position of each element in the sample.