



# ATLAS Apex

THE MOST ADVANCED

# BENCHTOP MICRO XRF ON THE MARKET



# X M



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**IXRF**  
SYSTEMS



## Product Features

- Smallest spot  $\geq 5\mu\text{m}$
- Hottest Tube
- Largest Chamber
- Largest detector  $65\text{ mm}^2$
- Light element detection from C (6) to U (92)
- Up to 4 detectors ( $260\text{ mm}^2$  total area)
- Largest, highest resolution maps
- Sub-micron stage accuracy
- Runs in air, under vacuum, with He
- Most advanced software

### ATLAS Apex X TECHNICAL SPECIFICATIONS

Sample Types	Solids, Liquids, Particles, Powders
Sample Chamber Size	37x26x14in (950x650x365mm)
Measurement Media	Air, Vacuum, He
Excitation Source	Primary 50W / 50kV / 1mA Secondary 4W-12W / 40kV-60kV / 0.4mA-1mA
Excitation Parameters	Polycapillary or Aperture Collimation
Target Materials	Rh (others available)
Tube	50kV, 50W, 1mA (optional 2nd tube)
Spot Size	$\geq 5\text{-}1000\mu\text{m}$
Filters	Up to 8
Geometry	Top-down Beam (Perpendicular)
Detector (s)	SDD
Resolution	down to 125 eV
Active Area	$30\text{ - }65\text{ mm}^2$
Stage	Motorized X,Y,Z Up to 600x300mm ranges available
Sample Travel	600x300x150mm
Total Mapping	400x300mm
Map Scan Speed	1-3ms/pixel
Sample Speed	up to 300mm/second
Sample View	Three Sample Positioning and Analysis Cameras
Instrument Control	PC; Windows 11 Complete control of parameters, filters, cameras, optical microscopes, sample illumination and positioning, and measurement media
Power	100-240 V, 50/60 Hz
Certifications	CE, RoHS, Radiation
Element Range	F-U, C-U with LE configuration
Dimensions	67x31x64in (1690x787x1630mm)
Safety	Radiation $< 1\ \mu\text{Sv/h}$

### ATLAS Apex M TECHNICAL SPECIFICATIONS

Sample Types	Solids, Liquids, Particles, Powders
Sample Chamber Size	20x18x10in. (508x457x254mm)
Measurement Media	Air, Vacuum, He
Excitation Source	Primary 50W / 50kV / 1mA Secondary 4W-12W / 40kV / 0.4mA-1mA
Excitation Parameters	Polycapillary or Aperture Collimation
Target Materials	Rh (others available)
Tube	50kV, 50W, 1mA (optional 2nd tube)
Spot Size	$\geq 5\text{-}1000\mu\text{m}$
Filters	Up to 8
Geometry	Top-down Beam (Perpendicular)
Detector (s)	SDD
Resolution	down to 125 eV
Active Area	$30\text{ - }65\text{ mm}^2$
Stage	Motorized X,Y,Z Up to 320x320mm ranges available
Sample Travel	320x320x120mm
Total Mapping	220x200mm
Map Scan Speed	1-3ms/pixel
Sample Speed	up to 300mm/second
Sample View	Three Sample Positioning and Analysis Cameras
Instrument Control	PC; Windows 11 Complete control of parameters, filters, cameras, optical microscopes, sample illumination and positioning, and measurement media
Power	100-240 V, 50/60 Hz
Certifications	CE, RoHS, Radiation
Element Range	F-U, C-U with LE configuration
Dimensions	35x22x22in (890x560x560mm)
Safety	Radiation $< 1\ \mu\text{Sv/h}$



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