Opto-Edu (Beijing) Co., Ltd.

OPTO-EDU A63.7005 Schottky Field Emission Scanning Electron Microscope SE BSE 100000x 2.5nm@20KV

Basic Information

• Place of Origin: China

• Brand Name: CNOEC, OPTO-EDU

Certification: CE, Rohs
Model Number: A63.7005
Minimum Order Quantity: 1 pc

Price: FOB \$1~1000, Depend on Order Quantity
 Packaging Details: Carton Packing, For Export Transportation

• Delivery Time: 5~20 Days

Payment Terms: T/T, West Union, Paypal

• Supply Ability: 5000 pcs/ Month



Product Specification

Resolution: 2.5nm@15KV
Magnification: 1000000x
Electron Gun: Schotty FEG
Voltage: 1-15KV
Detector: BSE+SE

Navigation CCD: CCD+Cabin Camera

Magnification 1000000x Resolution 2.5nm@15KV With SE+BSE+CCD, Optional EDS
Shotty FEG Catridge Voltage 1-15kV, Standard Detector SE, BSE, CCD, Optional EDS,
Standard X/Y Motorized Stage, Optional 3 Axes X/Y/Z or X/Y/T, 5 Axes X/Y/Z/R/T
High Vacuum System: Turbomolecular Pump, Mechanical Pump, Ion Beam x2, Vaccum In Chamber <5x10-4Pa
One Key Auto Focus, Auto Brightness & Contrast Adjust, No Need Shock Absorbing Table



A63.7005

Schottky Field Emission Scanning Electron Microscope, SE+BSE, 100000x, 2.5nm@20KV



A63.7005 Specification





Main Specification:

- 1. Acceleration voltage: 1-15kV, continuously adjustable.
- 2. Electron gun type: schotty field emission gun (FEG), highly integrated two-stage gun lens, no need to manually adjust the diaphragm of the objective lens.
- 3. Magnification ≥1000000X
- 4. Resolution:≤2.5nm@15KV
- 5. Detector: secondary electron detector (SE), quadruple backscatter detector (BSE),
- 6. Stage: 2 Axis XY motorized stage, moving 60x55mm
- 7. Maximum sample size: 100*78*68.5mm while XY axes move freely
- 8. Sample change and high vacuum pumping time≤ 180s.
- 9. High vacuum system: mechanical pump, turbo molecular pump, ion pump x2, the vacuum in sample chamber ≥4x10-2Pa, fully automatic control;
- 10. Video mode ≥512x512 pixels, no need for small window scanning.
- 11. Quick scan mode: imaging time≤3s, 512x512 pixels.
- 12. Slow scan mode: imaging time≤40s, 2048x2048 pixels.
- 13. Image File: BMP, TIFF, JPEG, PNG.
- 14. One-key automatic adjustment of brightness and contrast, auto-focus, large image stitching
- 15. Navigation function: optical camera navigation and cabin camera.
- 16. Image measurement function: distance, angle, etc.
- 17. Including computer & software, mouse control.
- 18. Optional:
- -- Tungsten filament (20pcs/box)
- --EDS
- --3 Axis Motorized Stage XYZ
- --3 Axis Motorized Stage XYT
- --5 Axis Motorized Stage XYZRT
- --Low vacuum (1-60Pa)
- --In-Situ stage from original factory, heating, cooling, stretch, etc.
- --Deceleration Mode, 1-10KV, can observe non-conductor or poor conductivity samples without gold spraying, only for BSE mode
- --Shock-absorbing Platform (recommend for A63.7005)
- 19. Microscope size 650*370*642mm, mechanical pump size 340*160*140mm



Model	A63.7001	A63.7002	A63.7003	A63.7004	A63.7005
Resolution	10nm@15KV	6nm@18KV	4nm@20KV	3nm@20KV	2.5nm@15KV
Magnification	150000x	200000x	360000x	360000x	1000000x
Electron Gun	Tungsten	Tungsten	Tungsten	LaB6	Schotty FEG
Voltage	5/10/15KV	3-18KV	3-20KV	3-20KV	1-15KV
Detector	BSE+SE	BSE+SE	BSE+SE	BSE+SE	BSE+SE
Navigation CCD	CCD	CCD	CCD+Cabin Camera CCD+Cabin Camera CCD+Cabin Camera		
Vaccum Time	90s	90s	30s	90s	180s
Vaccum System	Mechanical Pump Molecular Pump	Mechanical Pump Molecular Pump	Mechanical Pump Molecular Pump	Mechanical Pump Molecular Pump Ion Pump	Mechanical Pump Molecular Pump Ion Pump x2
Vaccum	High Vaccum 1x10-1Pa	High Vaccum 1x10-1Pa	High Vaccum 1x10-1Pa	High Vaccum 5x10-4Pa	High Vaccum 5x10-4Pa
Stage	XY Stage, 40x30/40x40mm	XY Stage, 40x30/40x40mm	XY Stage, 60x55mm	XY Stage, 60x55mm	XY Stage, 60x55mm
Stage Precision	-	Position Precise 5um			
Working Distance	5-35mm	5-35mm	5-73.4mm	5-73.4mm	5-73.4mm
Max Specimen	80x42x40mm	80x42x40mm	100x78x68.5mm	100x78x68.5mm	100x78x68.5mm
	Tunç	Tungsten Filament 20 pcs/box La		Lab6 Filament	Field Emission Lamp
	EDS Oxford AZtecOne with XploreCompact 30				
	-	Low Vaccum 1-100Pa		Low Vaccum 1-30Pa	
	-	Z Axis Module	3 Axis Stage, X 60mm, Y 50mm, Z 25mm		
	-	T Axis Module	3 Axis Stage, X 60mm, Y 50mm, T ±20°		
Optional	-	-	5 Axis Stage, X 90mm, Y 50mm, Z 25mm, T ±20°, R 360°		
	-	-	Shock-absorbing Platform, For 3 Axis, 5 Axis Stage		
	- Deceleration Mode 1-10KV To Watch Non-conduct Samples, Only For BSE				oles, Only For BSE

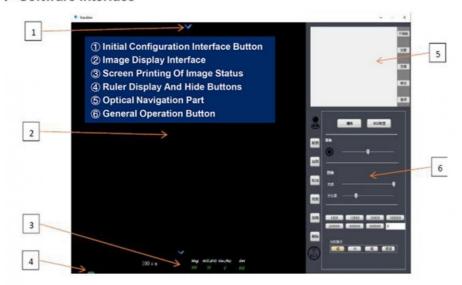
In-Situ Stage From Original Factory, Heating, Cooling, Stretch, etc.

UPS

A63.7005 Software Description

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▶ Software Interface



▶ Stake Out, Evacuate And Turn On High Pressure.



▶ Image Display Configuration And Adjustment



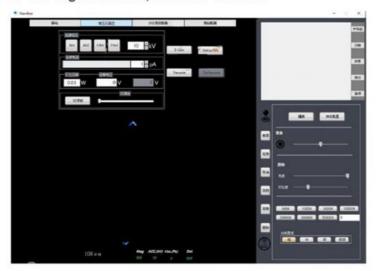
► BSE Advanced Configuration



► Lens configuration

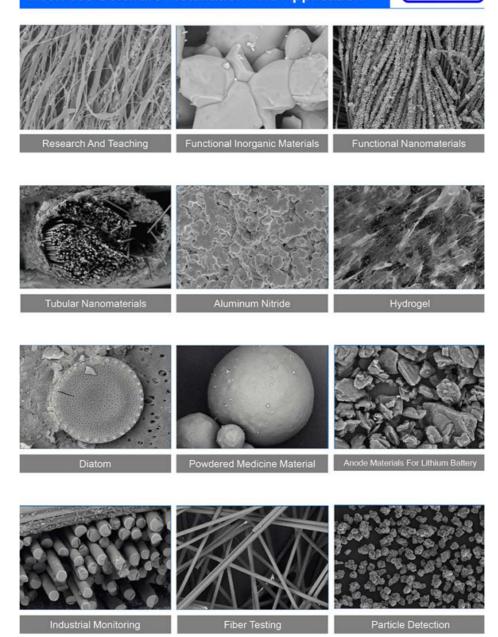


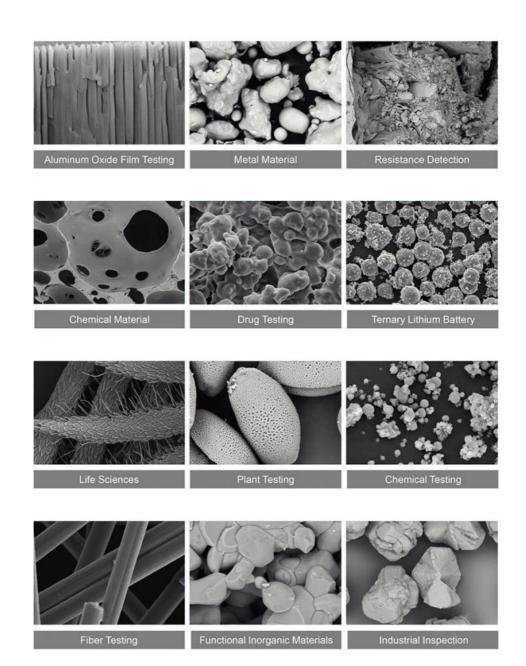
► Turn Off The High Pressure, Vent The Vacuum.



A63.7005 Software Installation And Application

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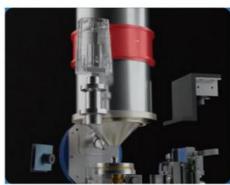


A63.7005 Accessories

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Optional 5-axis Center Sample Stage



Sample change time 30s



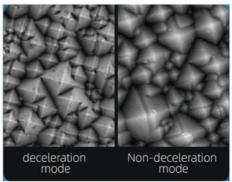
Addition of a camera inside the sample compartment for real-time observation of the sample compartment



The gun head always maintains 5*10'Pa vacuum, which greatly improves the service life of tungsten filament, and LaBó filament is optional

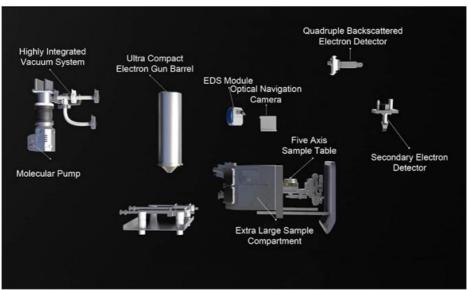


Extra large sample compartment,L185mm*w176mm*H125mm



10kv sample Table High Voltage Reduction Option





► In Situ Expansion Product Accessories



▶ Other Customized In-situ Products



A63.7005 Oxford EDS

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► AZtecOne with XploreCompact 30 for TTM

System Conventional Eds Analysis

The system provides qualitative and quantitative analysis of different materials, analyzing elements ranging from B(5) to cf (98).in addition to individual point scans of the sample surface, powerful line scans and elemental spectral scans are also available. combined with a customized detector, analysis and reporting can be done in seconds.

Effective Crystal Area	30mm2	Resolution (Of A Photo)	Mn Ka <129eV @50,000cps
Elemental Detection Range	B (5) to cf (98)	Maximum Input Count Rate	>1,000,000 cps

Highly User-Friendly Software

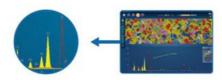
The software interface has simple navigation steps to guide the user through the analysis quickly and easily.



Comparison Of Real-Time Spectra

Real-time display of results saves analysis time

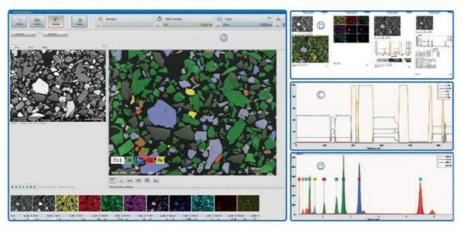
- No need to wait until collection is complete, quantitative results are displayed instantly
- Comparison with previous spectra is possible even during the acquisition process



Reporting

Intelligent report template selector generates reports in seconds







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