OPTO-EDU A63.7002 Tungsten Filament Scanning Electron Microscope SE BSE 200000x 6nm@18KV(SE)

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A63.7002
- 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: 6nm@18KV
- Magnification: 200000x
- Electron Gun: Tungsten
- Voltage: 3-18KV
- Detector: BSE+SE
- Navigation CCD: CCD

Our Product Introduction

for more products please visit us on cnoec.com

Product Description

Magnification 200000x Resolution 6nm@18KV(SE) With Detector SE+BSE+CCD, Optional EDS,
Standard 2 Axis Motorized Stage, Moving X 40mm, Y30mm, Max Specimen Φ50xH35mm
Built-in Condenser No Need Manual Adjust Aperture (LaB6 Optional)
High Vaccum System With Mechanical Rotary Pump To Get Vaccum In 90s
One Key Auto Focus, Auto Brightness & Contrast Adjust, No Need Shock Absorbing Table

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A63.7002

Tungsten Filament Scanning Electron Microscope, SE+BSE, 200000x, 6nm@18KV(SE)

A63.7002 Specification

Outstanding performance, high-speed imaging, diverse signalsZEM18 desktop scanning electron microscope signal acquisition bandwidth up to 10M, fast scanning speed, video mode real-time observation of samples, no ghosting, dragging, do not miss every detail. compatible with a variety of ZEP.TOOLS in-situ functional sample stage.

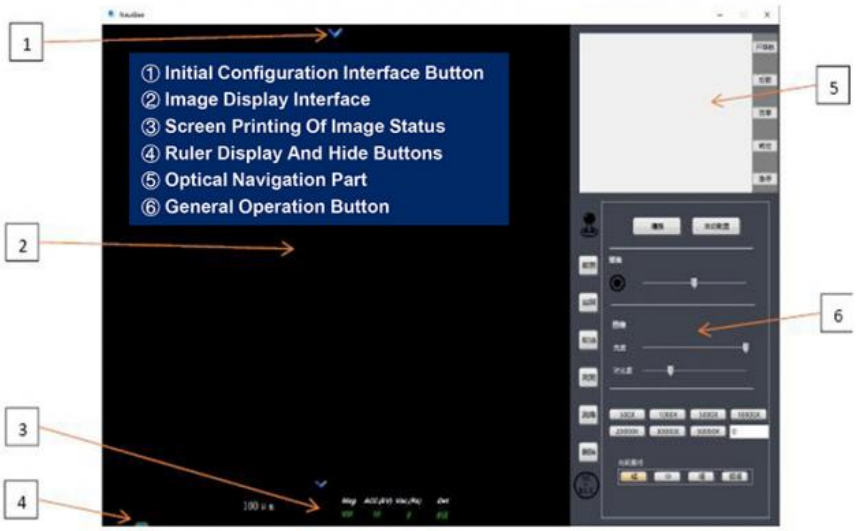
Main Specification:

1. Acceleration voltage: 3-18kV, continuously adjustable.
2. Electron gun type: pre-aligned tungsten filament, life time 100 hours, easy to replace by user, highly integrated two-stage gun lens, no need to manually adjust the diaphragm of the objective lens.
3. Magnification ≥200000X
4. Resolution:≤6nm@18KV
5. Detector: secondary electron detector (SE), quadruple backscatter detector (BSE),
6. Stage: 2 Axis XY motorized stage, moving 40x30mm (40x40mm optional)
7. Maximum sample size: 80x42x40mm
8. Sample change and high vacuum pumping time≤ 90s.
9. High vacuum system: built-in turbo molecular pump, external mechanical pump, the vacuum in sample chamber ≥1x10-1Pa, 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
--Low vaccum (1-100Pa)
--Z Axis, T Axis Module
--Deceleration Mode, 1-10KV, can observe non-conductor or poor conductivity samples without gold spraying, only for BSE mode
--In-Situ stage from original factory, heating, cooling, stretch, etc.
19.Microscope size: 283*553*505mm, mechanical pump size 340*160*140mm

A63.7002 Specification OPTO-EDU

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
Optional	Tungsten Filament 20 pcs/box			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°		
	-	-	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			
	-	In-Situ Stage From Original Factory, Heating, Cooling, Stretch, etc.			
	UPS				

▶ 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.

A63.7002 Software Installation And Application

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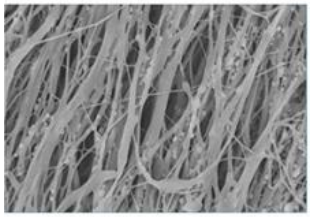
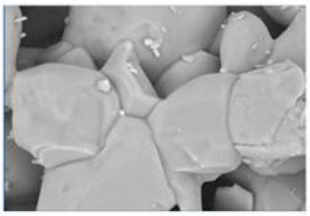
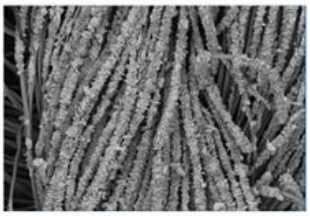


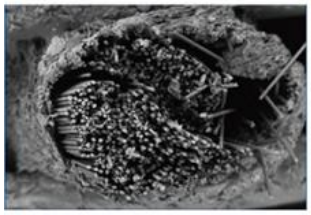
Research And Teaching



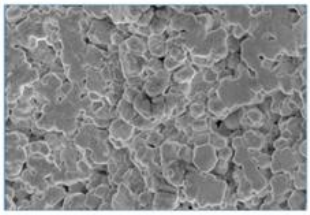
Functional Inorganic Materials



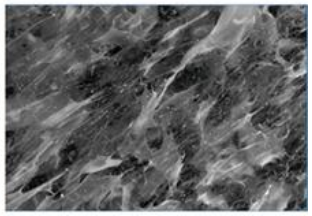
Functional Nanomaterials



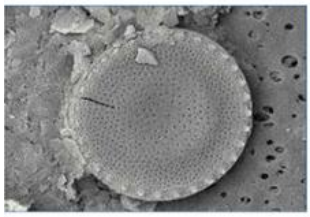
Tubular Nanomaterials



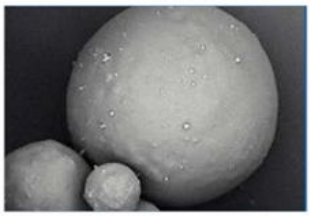
Aluminum Nitride



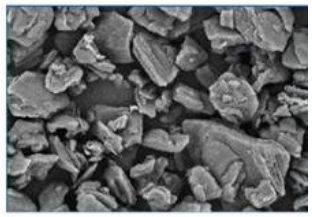
Hydrogel



Diatom

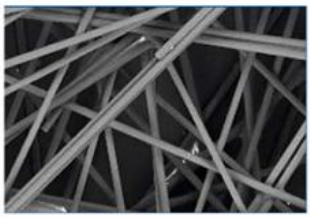


Powdered Medicine Material

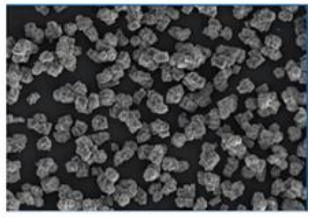


Anode Materials For Lithium Battery

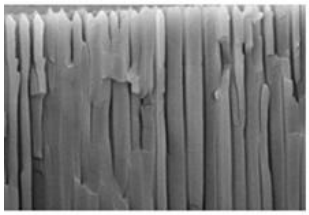
Industrial Monitoring



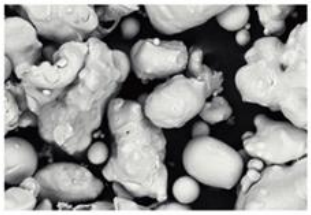
Fiber Testing



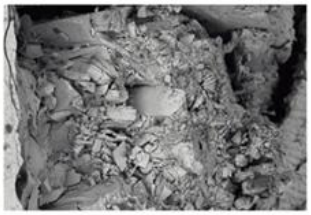
Particle Detection



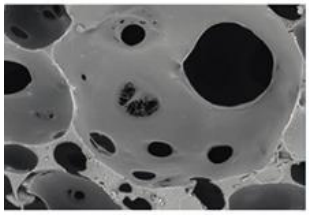
Aluminum Oxide Film Testing



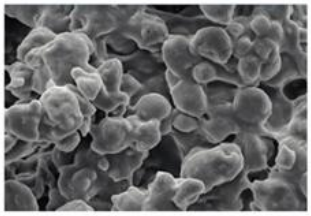
Metal Material



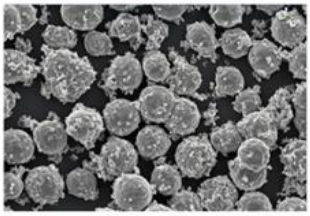
Resistance Detection



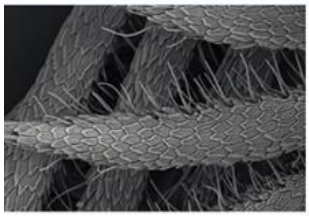
Chemical Material



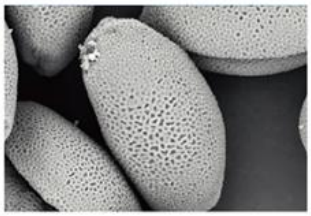
Drug Testing



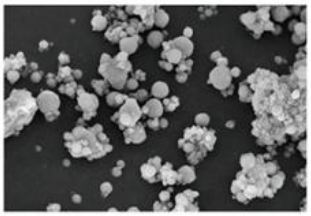
Ternary Lithium Battery



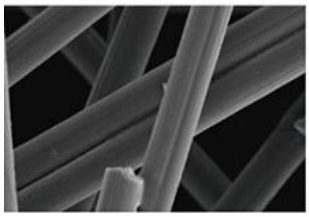
Life Sciences



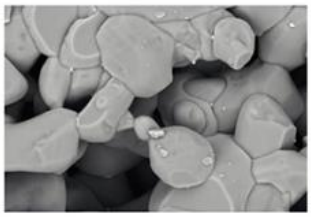
Plant Testing



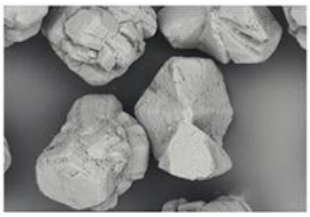
Chemical Testing



Fiber Testing



Functional Inorganic Materials



Industrial Inspection

A63.7002 Accessories

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▶ In Situ Expansion Product Accessories

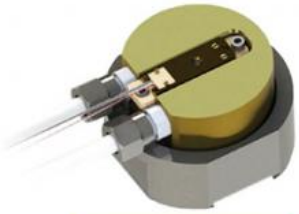
Tec Cold Table

Sem Stretching Stage

Sem Heated Sample Stage

▶ Other Customized In-situ Products

SEM Nano Probe Stage



SEM Atmosphere Heating system

SEM Nano Force Measurement System

(High temperature) in situ SEM cell station

A63.7002 Oxford EDS

OPTO-EDU

▶ AZtecOne with XploreCompact 30 for TTM

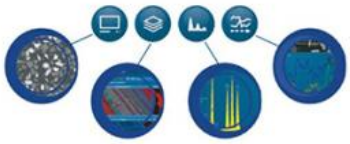
System Conventional Eds Analysis

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

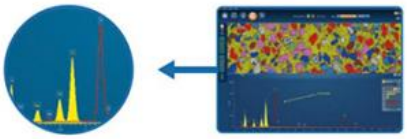
Highly User-Friendly Software

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



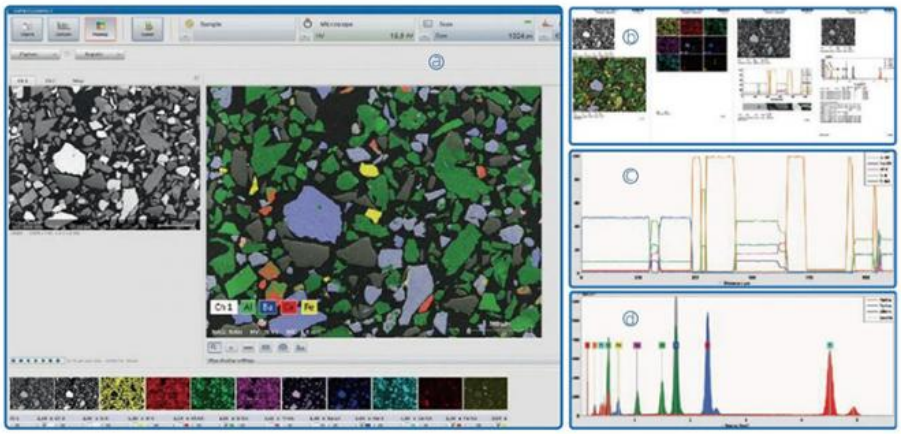
Comparison Of Real-Time Spectra

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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