Opto-Edu (Beijing) Co., Ltd.

Controled Mouse Scanning Electron Microscope Sem 1x~600000x Magnification A63.7080

Basic Information

Place of Origin: China
Brand Name: OPTO-EDU
Certification: CE, Rohs
Model Number: A63.7080
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: 1.5nm@15KV(SE); 3nm@20KV(BSE)

Magnification: 1x~600000x

• Electron Gun: Schottky Emission Electron Gun

Accelerating Voltage: 0~30KVMax Specimen Diameter: 175mm

• Specimen Stage: Five Axes Eucentric Motorized Stage

Highlight: controled mouse scanning electron microscope

sem

800000x magnification scanning electron

microscope sem





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sale@optoedu.com



cnoec.com

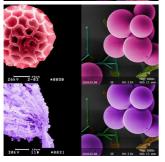




Product Description























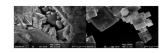


High voltage integrated commissioning
Brightness adjustment
Contrast adjustment
Magnification adjustment
Selected area scanning mode
Point scanning mode
Line scanning mode
Surface scanning
High voltage power monitoring

Automatic filament on / off
Electric to central adjustment
Objective lens adjustment
Objective degaussing
Electric rotation adjustment
Electron beam displacement adjustment
Electron beam tilt adjustment
Scanning speed adjustment
Swing centering

Potential shift regulation
Automatic brightness
Auto focus
Automatic astigmatism elimination
Management of microscope parameters
Real time display of scanning field size
Gun lens adjustment
Multichannel input
Ruler measurement

Detector (With Detector Protection)



A63 7080 Multi-angle





Electron Detector (With Detector

SEM	A63.7069 A63.7069-L A63.7069-LV					
Resolution	3nm@30KV(SE)	1.5nm@30KV(SE)	1.0nm@30KV(SE)			
	6nm@30KV(BSE)	3nm@30KV(BSE)	3.0nm@1KV(SE) 2.5nm@30KV(BSE)			
Magnification	1x~450000x,Negative True	1x~600000x, Negative True Magnification	1x~3000000x Negative True Magnificatio			
	Magnification					
Electron Gun	Pre-Centered Tungsten Filame Cartridge	ent Schottky Field Emission Gun	Schottky Field Emission Gun			
Voltage	Accelerating Voltage 0.2 30kV	, Continuous Adjustable, Adjust Step 100V@0-10k	(v, 1KV@10-30KV			
Quick View	One Key Quick View Image Fu	unction N/A	N/A			
Lens System Three-levels Electromagnetic		Multi-levels Electromagnetic Tapered Lens				
,	Tapered Lens					
Aperture	3 Molybdenum Objective Apertures, Adjustable Outside Of Vacuum System, No Need Disassemble Objective To Change Aperture					
Vacuum	1 Turbo Molecular Pump	1 Ion Pump Set	1 Sputter Ion Pump			
System	1 Mechanical Pump	1 Turbo Molecular Pump	1 Getter Ion Compound Pump			
	Sample Room Vacuum>2.6E-	3Pa 1 Mechanical Pump	1 Turbo Molecular Pump			
	Electron Gun Room Vacuum>	2.6E- Sample Room Vacuum>6E-4Pa	1 Mechanical Pump			
	3Pa	Electron Gun Room Vacuum>2E-7 Pa	Sample Room Vacuum>6E-4Pa			
	Fully Auto Vacuum Control	Fully Auto Vacuum Control	Electron Gun Room Vacuum>2E-7 Pa			
	Vacuum Interlock Function	Vacuum Interlock Function	Fully Auto Vacuum Control			
			Vacuum Interlock Function			
	Optional Model: A63.7069-L	1				
	1 Turbo Molecular Pump					
	2 Mechanical Pumps Sample Room Vacuum>2.6E-	2De				
	Electron Gun Room Vacuum>					
	3Pa	E.UE-				
	Fully Auto Vacuum Control					
	Vacuum Interlock Function					
	Low Vacuum Range 10~270Pa For					
	Quick Switch in 90 Seconds For					
	BSE(LV)					
Detector	SE: High Vacuum Secondary	SE: High Vacuum Secondary Electron Dete	ector (With SE: High Vacuum Secondary Electron			

Detector Protection)

	BSE: Semiconductor 4 Segmentation	Optional	Optional
	Back Scattering Detector		
	Optional Model: A63.7069-LV		
	BSE(LV): Semiconductor 4		
	Segmentation		
	Back Scattering Detector		
	CCD: Infrared CCD Camera	CCD: Infrared CCD Camera	CCD: Infrared CCD Camera
Extend Port	2 Extend Ports On Sample Room	4 Extend Ports On Sample Room For	4 Extend Ports On Sample Room For
	For	BSE, EDS, BSD, WDS etc.	BSE, EDS, BSD, WDS etc.
	EDS, BSD, WDS etc.		
Specimen	5 Axes Stage, 4 Auto +1 Manual	5 Axes Auto Middle Stage	5 Axes Auto Large Stage
Stage	Control	Travel Range:	Travel Range:
	Travel Range:	X=80mm, Y=50mm, Z=30mm,	X=150mm, Y=150mm, Z=60mm,
	X=70mm, Y=50mm, Z=45mm,	R=360°, T=-5°~+70°	R=360°, T=-5°~+70°
	R=360°, T=-5°~+90°(Manual)	Touch Alert & Stop Function	Touch Alert & Stop Function
	Touch Alert & Stop Function		
		Optional Model:	
	Optional Model:	A63.7080-L 5 Axes Auto Large Stage	
	A63.7069-L 5 Axes Auto Large		
	Stage		
Max Specimen	Dia.175mm, Height 35mm	Dia.175mm, Height 20mm	Dia.340mm, Height 50mm
Image	Real Still Image Max Resolution	Real Still Image Max Resolution 16384x16384	Real Still Image Max Resolution
System	4096x4096 Pixels,	Pixels,	16384x16384 Pixels,
Зузісні	Image File Format: BMP(Default),	Image File Format: TIF(Default), BMP, GIF, JPG,	Image File Format: TIF(Default), BMP, GIF
	GIF, JPG, PNG, TIF	PNG	JPG, PNG
		Video: Auto Record Digital .AVI Video	Video: Auto Record Digital .AVI Video
Computer &	PC Work Station Win 10 System Wit	th Professional Image Analysis Software To Fully Cor	•
Software		n Inter I5 3.2GHz, 4G Memory, 24" IPS LCD Monitor,	
Photo Display	The Image Level Is Rich And Meticul	ous, Showing Real Time Magnification, Ruler, Voltage	e, Gray Curve
Dimension	Microscope Body 800x800x1850mm	Microscope Body 800x800x1480mm	Microscope Body 1000x1000x1730mm
& Weight	Working Table 1340x850x740mm	Working Table 1340x850x740mm	Working Table 1330x850x740mm
	Total Weight 400Kg	Total Weight 450Kg	Total Weight 550Kg
Optional	A50.7002 EDS Energy Dispersive X-	A50.7001 BSE Back Scattering Electron Detector	A50.7001 BSE Back Scattering Electron
Accessories	Ray Spectrometer	A50.7002 EDS Energy Dispersive X-Ray	Detector
	A50.7011 Ion Sputtering Coater	Spectrometer	A50.7002 EDS Energy Dispersive X-Ray
	, , ,	A50.7011 Ion Sputtering Coater	Spectrometer
		A50.7030 Motorize Control Panel	A50.7011 Ion Sputtering Coater























A50.7001	BSE Detector
A50.7002	EDS (X Ray Detector)

Semiconductor Four Segment Back Scattering Detector; Available In Ingredients A+B, Morphology Info A-B; Available Sample Observe Without Sputtering Gold; Available In Observe Impurity And Distribution From Grayscale Map Directly.

Silicon Nitride (Si3N4) Window To Optimize Low Energy X-ray Transmission For Light Element Analysis;

Excellent Resolution And Their Advanced Low-noise Electronics Provide Outstanding Throughput Performance;

The Small Footprint Offers Flexibility To Ensure Ideal Geometry And Aata Collection Conditions;

The Detectors Contain A 30mm2 Chip.

A50.7003	EBSD (Electron Beam Backscattered Diffraction)	user could analysis crystal orientation, crystal phase and micro texture of materials and related materials performance,etc. automatic optimization of EBSD camera settings during the data collection, do interactive real-time analysis to obtain maximum information all the data were branded with time tag, which can be viewed at any time high resolution 1392 x 1040 x 12 Scanning and index speed: 198 points / sec, with Ni as the standard, under the condition of 2∼5nA, it can ensure the index rate ≥99%; works well under the condition of low beam current and low voltage of 5kV at 100pA orientation measuring accuracy: Better than 0.1 degrees Using triplex index system: no need rely on single band definition , easy indexing of poor pattern quality dedicated database: EBSD special database obtained by electron diffraction: >400 phase structure Index ability: it can automatically index all crystal materials of 7 crystal systems. The advanced options include calculating elastic stiffness (Elastic Stiffness), Taylor (Taylor) factor, Schmidt (Schmid) factor and so on.
A50.7010	Coating Machine	Glass Protecting Shell: ∮ 250mm; 340mm High; Glass Processing Chamber: ∮ 88mm; 140mm High, ∮ 88mm; 57mm High; Specimen Stage Size: ∮ 40mm (max); Vacuum System:molecula Pump And Mechanical Pump; Vacuum Detection: Pirani Gage; Vacuum:better Than 2 X 10-3 Pa; Vacuum Protection:20 Pa With Microscale Inflation Valve; Specimen Movement: Plane Rotation,tilt Precession.
A50.7011	Ion Sputtering Coater	Glass Processing Chamber: ∮ 100mm; 130mm High; Specimen Stage Size: ∮ 40mm(Hold 6 Specimen Cups); Golden Target Size: ∮ 58mm*0.12mm(thickness); Vacuum Detection: Pirani Gage; Vacuum Protection:20 Pa With Microscale Inflation Valve; Medium Gas:argon Or Air With Argon Gas Special Air Inlet And Gas Regulating In Microscale.
A50.7012	Argon Ion Sputtering Coate	The Sample Was Plated With Carbon And Gold Under High Vacuum; Rotatable Sample Table, Uniform Coating, Particle Size About 3-5nm; No Selection Of Target Material, No Damage To Samples; The Functions Of Ion Cleaning And Ion Thinning Can Be Realized.
A50.7013	Critical Point Dryer	Inner Diameter: 82mm, Inner Length: 82mm; Pressure Range:0-2000psi; Temperature Range:0°-50° C (32°-122° F)
A50.7014	Electron Beam Lithography	Based On Scanning Electron Microscope, A Novel Nano-exposure System Was Developed; The Modificaton Has Kept All The Sem Functions For Making Nanoscale Line Width Image; The Modificated Ebl System Widly Applied Into Microelectronic Devices, Optoelectronic Devices, Quantun Devices, Microelectronics System R&d.



	A63.7080, A61		
1	Field Emission Filament	Installed In Microscope	1 Pc
2	Sample Cup	Dia.13mm	5 Pcs
3	Sample Cup	Dia.32mm	5 Pcs
4	Carbon Double-sided Conductive Tape	6mm	1 Package
5	Vacuum Grease		10 Pcs
6	Hairless Cloth		1 Tube
7	Polishing Paste		1 Pc
8	Sample Box		2 Bags
9	Cotton Swab		1 Pc
10	Oil Mist Filter		1 Pc
	A63.7080, A6		
1	Inner Hexagon Spa <mark>nner</mark>	1.5mm~10mm	1 Set
2	Tweezers	Length 100-120mm	1 Pc
3	Slotted Screwdriver	2*50mm, 2*125mm	2 Pcs
4	Cross Screwdriver	2*125mmm	1 Pc

5	Clean vent pipe	Dia.10/6.5mm(Out Diameter/Inner Diameter)	5m
6	Vent pressure reducing valve	Output Pressure 0-0.6MPa	1 Pc
7	Internal baking power supply	0-3A DC	2 Pcs
8	UPS power supply	10kVA	2 Pcs

1. Ap	pl	ication	8:
SEM	İŝ	mainly	ар

2. Power Supply Requirements:
2.1 Voltage AC 220V ± 10%, 50H ± 11H; standard sine wave.
2.2 I set an economication share the power apply line with the instrument for equipment with high power and large power consumption change.

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OPTO-EDU









Scanning Electron Microscope Sample Preparation Instrument



Ion Beam Milling (Polishing), Etc...

Model NO. A50.7038





A50.7038 Ion Beam Milling (Polishing), Etching, Sputtering Machine A50.7039 Ion Beam Etching, Polishing, Thinning Machine

A50.7080 Ultrathin Microtom