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A63.7080

Schottky Field Emission Gun
Scanning Electron Microscope,
SED+CCD, 8x~800000x

Quotation & After-sale Service



Quotation Optional Accessories

Model	Configuration	Quantity	Price(USD)
A63.7080 Field Emission Gun SEM	➤ Resolution: 1.5nm@30KV(SE), 3nm@30KV(BSE) ➤ Magnification: 8x~800000x Negative True Magnification ➤ Electron Gun: Schottky Field Emission Gun ➤ Accelerating Voltage: 0~30KV, Continuous Adjustable, Adjust Step 100V@0-10Kv, 1KV@10-30KV ➤ Multi-levels Electromagnetic Tapered Lens System ➤ 3 Molybdenum Objective Apertures, Adjustable Outside Of Vacuum System, No Need Disassemble Objective To Change Aperture ➤ Vacuum System: ● 1 Ion Pump Set ● 1 Turbo Molecular Pump ● 1 Mechanical Pump Sample Room Vacuum >6E-4Pa Electron Gun Room Vacuum >2E-7 Pa Fully Auto Vacuum Control Vacuum Interlock Function ➤ Detector: ● SE: High Vacuum Secondary Electron Detector (With Detector Protection) ● CCD: Infrared CCD Camera ➤ Extend Ports: 4 Extend Ports On Sample Room For BSE, EDS, BSD, WDS etc. ➤ Specimen Stage: 5 Axes Auto Middle Stage, Travel Range: X=80mm, Y=50mm, Z=30mm, R=360°, T=-5°~+70°, Touch Alert & Stop Function ➤ Max Specimen: Dia.175mm, Height 20mm ➤ Image System: - Real Still Image Max Resolution 16384x16384 Pixels, - Image File Format: TIF(Default), BMP, GIF, JPG, PNG - Video: Auto Record Digital .AVI Video ➤ Computer & Software: PC Work Station Win 10 System, With Professional Image Analysis Software To Fully Control Whole SEM Microscope Operation, Computer Specification No Less Than Inter I5 3.2GHz, 4G Memory, 24" IPS LCD Monitor, 500G Hard Disk, Mouse, Keyboard ➤ Photo Display: The Image Level Is Rich And Meticulous, Showing Real Time Magnification, Ruler, Voltage, Gray Curve	1(Set)	\$219,000.0
A63.7080-M (Optional Model)	➤ Specimen Stage: 5 Axes Manual Stage, Travel Range: X=70mm, Y=50mm, Z=45mm, R=360°, T=-5°~+90°, Touch Alert & Stop Function ➤ All Other Specification Same As A63.7080	1(Set)	\$183,000.0
A63.7080-L (Optional Model)	➤ Specimen Stage: 5 Axes Large Stage, Travel Range: X=150mm, Y=10mm, Z=60mm, R=360°, T=-5°~+70°, Touch Alert & Stop Function ➤ All Other Specification Same As A63.7080	1(Set)	\$229,000.0

Optional Accessories		Quantity	Price(USD)
A50.7001 BSE 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.	1(Set)	\$8,900.0
A50.7002 EDS Energy Dispersive X-Ray Spectrometer	➤ 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 30mm 2 Chip.	1(Set)	\$55,000.0
A50.7011 Sputter Coater	➤ Glass processing chamber: φ 100mm; 130mm High. ➤ Specimen stage size: φ 40mm(Hold 6 specimen cups) ➤ Golden target size: φ 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.	1(Set)	\$4,450.0
A50.7030 Motorize Control Panel	➤ Motorize Control Panel, Integrated Computer Mouse To Control Magnification, Brightness, Contrast, Focus, Working Stage Moving Easily.	1(Set)	\$8,900.0

A63.7080, A63.7081 Standard Consumables Outfit			
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, A63.7081 Standard Tools & Parts Outfit			
1	Inner Hexagon Spanner	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*125mm	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

A63.7080, A63.7081 Software Main Function		
High voltage integrated commission	Automatic filament on / off	Potential shift regulation
Brightness adjustment	Electric to central adjustment	Automatic brightness
Contrast adjustment	Objective lens adjustment	Auto focus
Magnification adjustment	Objective degaussing	Automatic astigmatism elimination
Selected area scanning mode	Electric rotation adjustment	Management of microscope parameters
Point scanning mode	Electron beam displacement adjustment	Real time display of scanning field size
Line scanning mode	Electron beam tilt adjustment	Gun lens adjustment
Surface scanning	Scanning speed adjustment	Multichannel input
High voltage power monitoring	Swing centering	Ruler measurement

Working Condition, Requirement For Installation

1. Applications:

SEM is mainly applied to the specimen surface appearance analysis. It is equipped with energy spectrum which is used for composition analysis and equipped with a small ion sputtering apparatus to help with sample surface treatment.

2. Power Supply Requirements:

2.1 Voltage: AC 220V $\pm$ 10%, 50Hz $\pm$ 1 Hz, standard sine wave.

2.2 It is not recommended to share the power supply line with the instrument for equipment with high power and large power consumption change.

2.3 Three power sockets needed for:

1. Scanning electron microscope instrument body, computer: AC 220V, 50Hz, 16A
2. Mechanical pump and air compressor: AC 220V, 50Hz, 16A

3. Environmental Requirements For Installation Site:

3.1 It is recommended to keep the temperature between 16~30° C

3.2 The relative humidity shall be less than 60%

3.3 Recommend configuration: air conditioner, dehumidifier and other equipment that can ensure the temperature and humidity of the laboratory.

3.4 Noise: < 68 DB

3.5 The durability of the instrument operation: continuously working

4. A63.7080 Instrument Dimension & Weight

Microscope Body 800x800x1480mm

Working Table 1340x850x740mm

Total Weight 450Kg

The floor bearing capacity should $\geq$ 250kg/m³, and it is recommended to place it on the first floor

5. A63.7080 Packaging Dimension & Weight

1 Set in 3 Wooden Boxes:

110*110*158(cm) *1

127*115*136(cm) *1

160*80*111 (cm) *1

Total Volume 5.3189CBM, Total G.W. 872 kg

Consumable Items & Operation Cost

Periodic Replacement

	A63.7069	A63.7080	A63.7081
Filament	150-200 hours	15000 Hours	15000 Hours
Objective Aperture	Three aperture in each piece (Molybdenum) Exchange 1-2 years	One aperture in each piece (Platinum) Exchange 1-2 years	One aperture in each piece (Platinum) Exchange 1-2 years
Mechanical Pump Oil	1 Liter 1 Year	1 Liter 1 Year	1 Liter 1 Year

Consumable Item

	Brand	Unit	Length	Duration
Carbon conductive Tape	SPI-6	Tape	20m	-
Cooper Conductive Tape	SPI-6	Tape	20m	-
Polishing Paste	SPI	Tube	100ml	2 Years
Vacuum Grease		Box	50ml	2 Years

Basic Operating Cost

	A63.7069	A63.7080.A63.7081
Electric Power	Turn off any time	7/24 hours Operating
Filament	150-200 hours	15000 hours
Conducting Tape	Depends on the usage	Depends on the usage

After-sale Service

- Standard 1 Year Warranty Included
- Extend Warranty 1 Year Cost 12% of Sales Contrast Amount
- On-Site Installation Cost USD6000.0 For 5+2 Days
- On-Site Maintenance Cost USD4500.0 For 3+2 Days
- Free Training for Visiting Customer in Beijing Included (Round Trip Ticket & Lodging Fee Not Included)
- Consumables Items & Accessories Available For All Life Time of Machine

	Service	Visit	Expense Coverage	Price
Standard Warranty	● One Year Warranty After Complete On-site Installation ● Quality Faulty Parts Free Replacement & Shipping ● Artificially Damaged Parts Replacement & Shipping Cost Bear By User		● Quality Faulty Parts Cost & Shipping Charge User Need To Pay: ● Artificially Damaged Parts Cost & Shipping Charge	Free
Extend Warranty	● One Year Warranty After Complete On-site Installation ● Quality Faulty Parts Free Replacement & Shipping ● Artificially Damaged Parts Replacement & Shipping Cost Bear By User		● Quality Faulty Parts Cost & Shipping Charge User Need To Pay: ● Artificially Damaged Parts Cost & Shipping Charge	12% of Contract Amount
On-Site Installation	● On-site Installation ● On-site Training ● Actual stay days can be extended upon user's request with extra charge paid	At least 5 working days, plus 2 days for travelling	● Labor Cost User Need To Pay: ● Round Trip Air ticket ● Boarding/Lodging ● Local Transportation	\$6000.0
On-Site Maintenance	● On-site Maintenance, Repairing, Moving Instrument ● On-site Training ● Actual stay days can be extended upon user's request with extra charge paid	At least 3 working days, plus 2 days for travelling	● Labor Cost User Need To Pay: ● Round Trip Air ticket ● Boarding/Lodging ● Local Transportation	\$4500.0