



Opto Edu A63.7088 Schottky Field Emission Gun Scanning Electron Microscope SE+CCD 1x~2000000x

Our Product Introduction

for more products please visit us on cnoec.com

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A63.7088
- 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

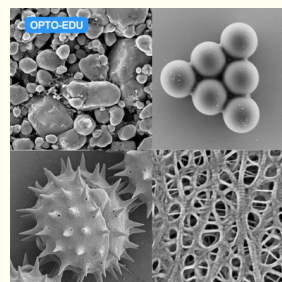
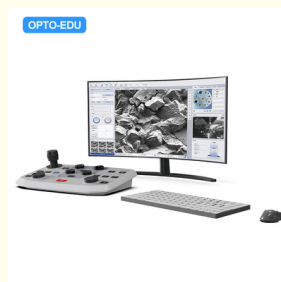


Product Specification

- Resolution: 1.0nm@30KV(SE), 1.5nm@1KV(SE)
- Magnification: 1x~2000000x
- Electron Gun: Schottky Field Emission Gun
- Voltage: Accelerating Voltage 0.02~30KV
- Electron Beam: 1pA~20nA
- Vacuum System: 1 Sputter Ion Pump, 1 Turbo Molecular Pump, 1 Mechanical Pump
- Highlight: SE+CCD Scanning Electron Microscope, 1x~2000000x Scanning Electron Microscope, opto edu microscope



More Images



Product Description

Schottky Field Emission Gun Scanning Electron Microscope, SE+CCD, 1x~2000000x

1x~2000000x With Detector SE+2+BSE+CCD, Extension Port For EDS, EBSD, CL

Schottky Field Emission Gun Voltage 0.02 30kV, Resolution 1nm@15KV(SE), 1.5nm@1KV(SE)

5 Axes Auto Stage X=125, Y=125, Z=50, R=360°, T=-5°~+70° Specimen Room Φ330xH260mm

Vacuum Pumps: 1 Ion +1 Turbo Molecular+ 1 Mechanical, Including Computer, Windows & Software, Control Panel

Composite Lens With Electrostatic Lens + Magnetic Lens Worry Free Imaging of Magnetic Samples



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A63.7088

Schottky Field Emission Gun Scanning Electron Microscope, SE+CCD, 1x~2000000x



A63.7088 Introduction

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The A63.7088 scanning electron microscope uses thermal field emission electron gun (Schottky FEG) technology. The electron optical tube incorporates advanced full-tube acceleration technology to ensure excellent imaging performance of the electron beam under low acceleration voltage and is suitable for various materials (Especially for high-resolution imaging of samples that are non-conductive and not resistant to electron irradiation). A63.7088 is equipped with two secondary electron detectors inside the mirror (on the optical axis) and in the sample chamber (Everhart-Thornley), a backscattered electron detector, a scanning transmission electron detector, etc., which can efficiently collect the emitted electrons excited from the sample. Imaging a variety of electronic signals can reveal the microscopic morphology and structural information of the sample to the greatest extent.



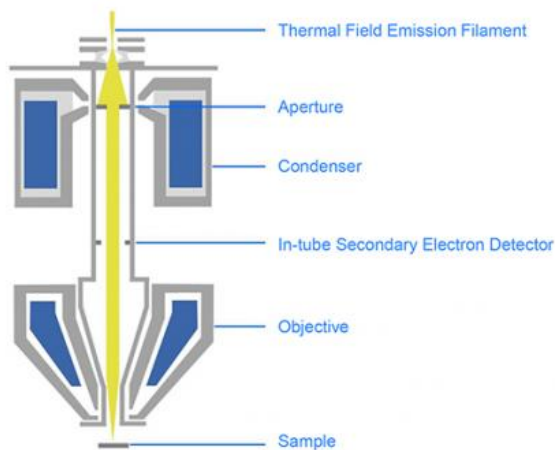
A63.7088	
Resolution	1.0nm@30KV(SE), 1.5nm@1KV(SE)
Magnification	1x~2000000x
Electron Gun	Schottky Field Emission Gun
Voltage	Accelerating Voltage 0.02~30KV
Electron Beam	1pA~20nA
Vacuum System	1 Sputter Ion Pump, 1 Turbo Molecular Pump, 1 Mechanical Pump
Detector	SE in Lens, SE in Sample Room, BSE, CCD
Extend Port	Extend Ports On Sample Room For BSE, EDS, EBSD, CL etc.
Specimen Stage	5 Axes Auto Stage, Travel Range: X=125mm, Y=125mm, Z=50mm, R=360°, T=-5°~+70°
Max Specimen	Specimen Room Dia.330mm, Height 260mm
Image System	Real Still Image Max Resolution 256x256~16k~16k Pixels
Computer & Software	PC Work Station Windows System, With Professional Image Analysis Software To Fully Control Whole SEM Microscope Operation, Mouse, Keyboard
Control Panel	Included
Dimension & Weight	Main Body 1900x1100x1800mm, Total Weight 800Kg
Optional Accessories	
A50.7091	Ion Beam Cleaner
A50.7092	Field Emission Gun Lamp

A63.7088 Features

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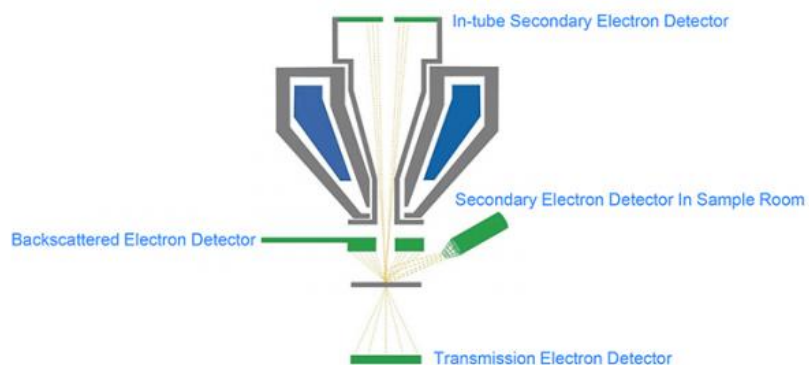
► Superior Electron-optics Design

- Thermal field emission electron gun, stable beam, high imaging resolution
- Full tube acceleration technology ensures high imaging performance of electron beam at low acceleration voltage
- Composite lens design of electrostatic lens and magnetic lens, the objective lens has no magnetic leakage, and the imaging of magnetic samples is worry-free



► Comprehensive Signal Collection System

- Can simultaneously collect signals from two types of secondary electrons, backscattered electrons and transmitted electrons.
- The sample morphology and composition contrast are displayed simultaneously to reveal the sample's microscopic morphology and composition information to the greatest extent.



A63.7088 Details

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► Fluent and Friendly User Experience

- Clear and Concise Interface Layout
- Equipped with Multiple Safety Interlocks
- Ergonomic Keyboard Design
- Simple and Smooth Operation



► Powerful and Versatile Analytical Platform

- Modular design, scalable system architecture
- Customized solutions can be provided according to customers' special application requirements
- Multiple interfaces, adaptable to various third-party detectors, such as EDS, EBSD, WDS, CL, in-situ experimental benches, etc., with both imaging and analysis functions



Plasma Cleaning Instrument



Spectrometer



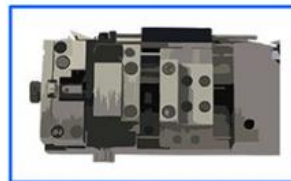
EBSD



Energy Spectrometer



Micro Gas Injection System

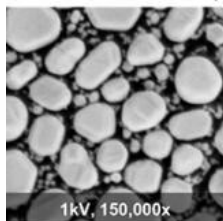


In Situ Experimental Bench

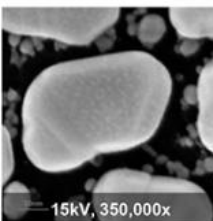
A63.7088 Application Cases

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► Gold Standard Sample

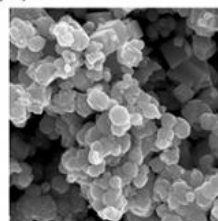
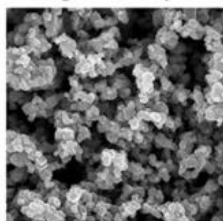


1kV, 150,000x

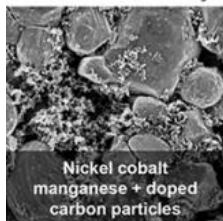


15kV, 350,000x

► Magnetic Sample: Fe_3O_4 Particles



► Lithium-ion Battery Cathode Materials

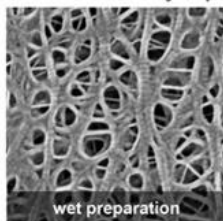


Nickel cobalt
manganese + doped
carbon particles

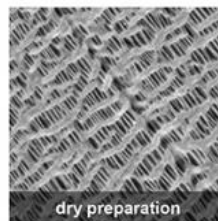


Lithium iron phosphate
particles

► Lithium Battery Separator

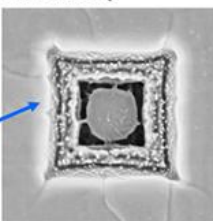
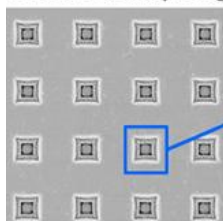


wet preparation

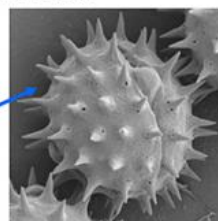
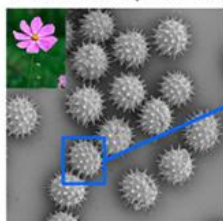


dry preparation

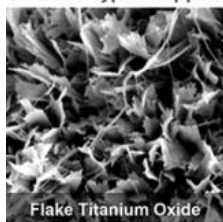
► Electrode Morphology on The Chip



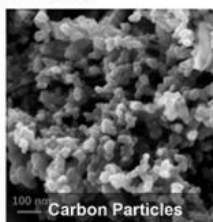
► Cosmos Bipinnatus Cav Pollen



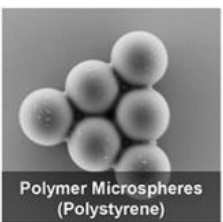
► Other Typical Application Cases



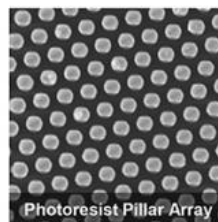
Flake Titanium Oxide



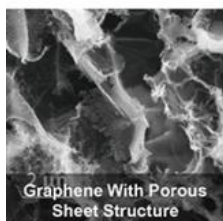
Carbon Particles



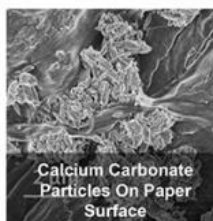
Polymer Microspheres
(Polystyrene)



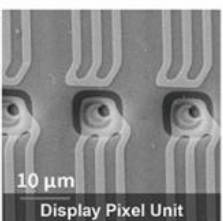
Photoresist Pillar Array



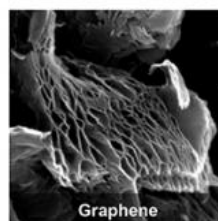
Graphene With Porous
Sheet Structure



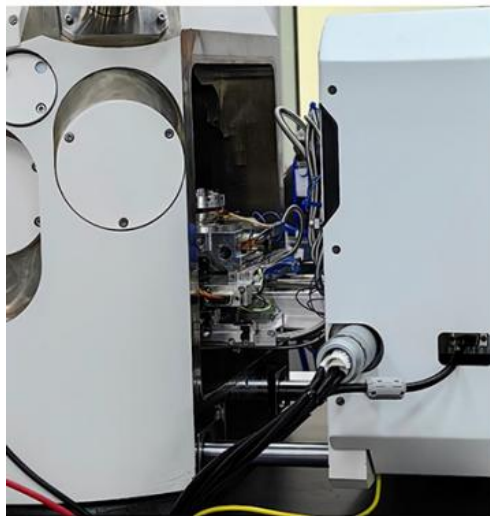
Calcium Carbonate
Particles On Paper
Surface



10 μm
Display Pixel Unit



Graphene



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